

CAPITAL IMPROVEMENTS PROGRAM

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

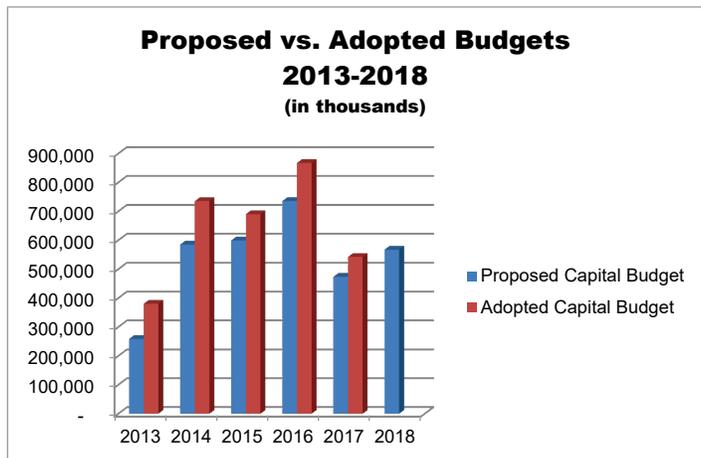
The Capital Improvements Budget (CIB) serves as the basis for all budgeting and spending related to capital projects throughout the city for the ensuing year. The CIB is a one-year budget that is authorized by an ordinance passed by City Council. The CIB is also included as the first year within the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

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

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

The Capital Planning Process

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



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

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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 3-5 years. A bond package normally consists of several issues that will be placed on the ballot for a popular vote. Seeking voter approval every few years allows the city to solicit voter input and participation in the capital project prioritization process.

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 \$139 million of the 2016 voted authority. In addition, the city also has \$55 million of remaining authority from the 2008 voted bond package and \$212 million remaining authority from the 2013 voted bond package. The tables below show the remaining voted authority, by purpose, as of October 25, 2017.

Voted Bond Packages						
(000's omitted)						
Purpose	2008		2013		2016	
	Amount Authorized	Amount Remaining	Amount Authorized	Amount Remaining	Amount Authorized	Amount Remaining
Safety and Health	\$ 86,170	\$ -	\$ 52,500	\$ -	\$ 70,000	\$ 51,775
Recreation and Parks	124,215	-	123,910	3,375	110,000	110,000
Streets and Highways	345,630	-	-	-	-	-
Refuse Collection	32,205	-	-	-	-	-
Public Service	-	-	220,300	-	310,000	189,320
Water	524,700	-	-	-	-	-
Sanitary	551,970	55,250	-	-	-	-
Public Utilities	-	-	445,295	208,335	460,000	460,000
Total	\$ 1,664,890	\$ 55,250	\$ 842,005	\$ 211,710	\$ 950,000	\$ 811,095

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 twenty-five percent of the City of Columbus' two and one-half percent income tax to the special income tax (SIT) fund to service debt, primarily for non-enterprise agencies. In 2018, SIT income tax deposits are currently projected at nearly \$220.6 million. This amount will be revised when the final 2017 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 \$16.7 million for 2018.

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

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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 2017 to 2026.

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

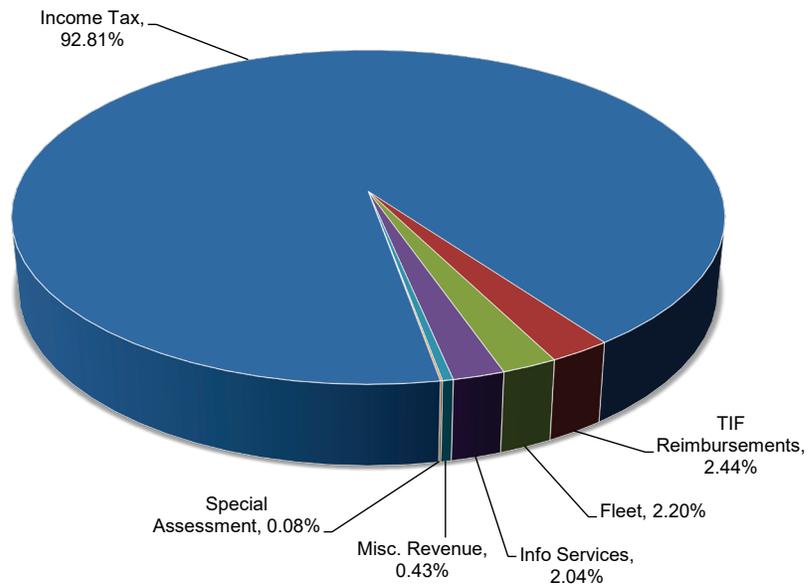
Coverage Factor

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

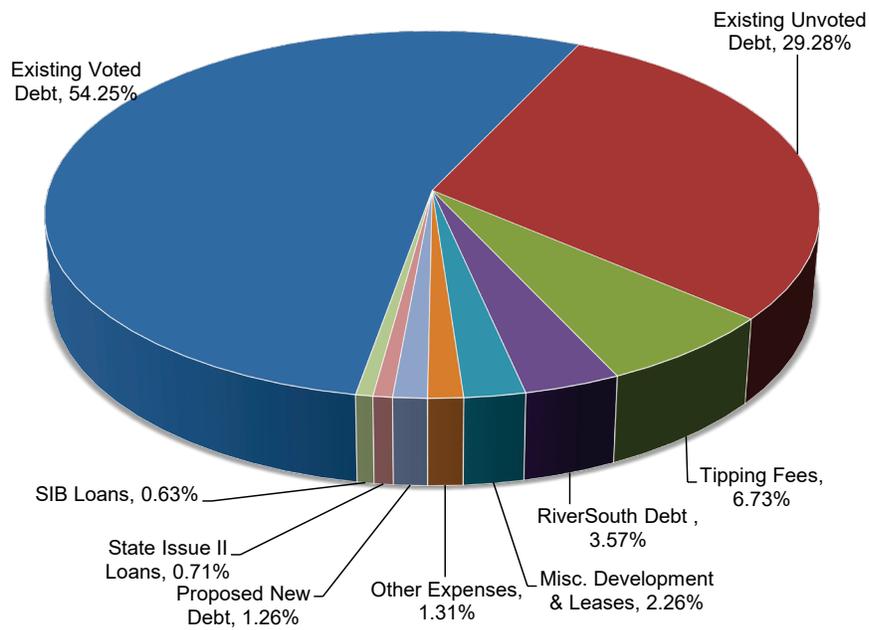
SPECIAL INCOME TAX ANALYSIS - SUMMARY										
(000's omitted)										
	Estimated 2017	Proposed 2018	2019	2020	2021	2022	2023	2024	2025	2026
BEGINNING FUND BALANCE	197,029	168,702	157,199	151,350	150,934	151,593	162,556	176,551	205,822	246,756
REVENUES BY SOURCE										
Income Tax (1)	215,227	220,608	226,123	231,776	237,571	243,510	243,510	250,815	258,340	266,090
Debt Service - Information Services	4,914	4,855	4,700	4,620	4,542	4,417	4,417	4,446	3,973	3,333
Debt Service - Fleet	5,192	5,225	5,244	4,874	4,752	4,727	4,686	4,601	3,766	3,031
Debt Service - Casino	1,270	-	-	-	-	-	-	-	-	-
TIF Reimbursements (2)	6,061	5,811	5,786	5,751	5,719	5,726	5,685	5,647	5,608	1,105
Special Assessment Reimbursement	190	190	190	190	190	190	190	190	190	190
Police Helicopter Reimbursement	804	-	-	977	-	1,077	-	1,186	-	1,286
Misc. Revenue	1,109	1,012	978	986	997	1,016	832	853	873	910
Total Revenue	234,767	237,701	243,021	249,174	253,771	260,663	259,320	267,738	272,750	275,945
Total Resources	431,796	406,403	400,220	400,524	404,705	412,256	421,876	444,289	478,572	522,701
EXPENDITURES										
Existing Debt Service										
Voted Debt	133,133	135,171	139,430	132,683	123,167	114,396	100,386	91,473	85,597	79,384
Unvoted Debt	69,369	72,961	66,793	62,658	60,103	56,871	51,326	48,665	42,827	32,852
State Infrastructure Bank Loans	1,580	1,580	591	591	592	589	589	583	584	584
State Issue II Loans	2,068	1,781	1,667	1,659	1,638	1,623	1,623	1,819	1,755	1,755
RiverSouth Debt Service	7,045	8,894	8,884	8,879	8,886	8,877	8,885	8,890	5,526	1,841
Total Existing Debt	213,195	220,387	217,365	206,470	194,386	182,356	162,809	151,430	136,289	116,416
Proposed Debt Service (3)										
Debt Service - Voted	-	2,682	7,832	19,919	29,391	36,713	40,525	40,699	39,347	37,994
Debt Service - Unvoted	-	460	1,437	3,733	6,471	11,058	18,704	26,656	32,658	31,589
Total Proposed New Debt	-	3,142	9,269	23,652	35,862	47,771	59,229	67,355	72,005	69,583
Direct Expense										
Tipping Fees	17,005	16,776	16,777	16,779	16,781	16,783	16,784	16,786	16,788	16,790
Police Helicopters	2,030	-	3,057	-	3,344	-	3,661	-	3,750	-
Misc. Development & Leases	5,710	5,643	1,003	1,243	1,243	1,243	1,243	1,243	1,275	1,275
Misc. Expenses	25,154	3,256	1,399	1,446	1,496	1,547	1,599	1,653	1,709	1,783
Total Direct Expenses	49,899	25,675	22,236	19,468	22,864	19,573	23,287	19,682	23,522	19,848
TOTAL EXPENSES	263,094	249,204	248,870	249,590	253,112	249,700	245,325	238,467	231,816	205,847
ENDING FUND BALANCE	168,702	157,199	151,350	150,934	151,593	162,556	176,551	205,822	246,756	316,854
CURRENT YEAR COVERAGE	0.89	0.95	0.98	1.00	1.00	1.04	1.06	1.12	1.18	1.34
TOTAL COVERAGE	1.64	1.63	1.61	1.60	1.60	1.65	1.72	1.86	2.06	2.54
Assumptions:										
(1) Income Tax estimate for 2017 is a 2.5% increase over 2016 actual collections. Assumes an annual increase of 2.5% for 2018-2022, 0% increase in 2023, and a 3% increase for 2024-2026.										
(2) Reimbursements from TIF areas that had debt issued by the city. Debt figures are included in the existing debt service totals.										
(3) Proposed debt assumes bonds will be issued immediately as equal principal payments over a 15 year period. Interest rate assumptions are 5% in 2018, and 6% in 2019 and thereafter.										

SPECIAL INCOME TAX ANALYSIS PROPOSED 2018 BUDGET

REVENUES



EXPENDITURES



Debt Limitations and Obligations

The following explanation of “Debt Limitations” has been extracted from the city’s Official Statement dated October 25, 2017.

Direct Debt Limitations

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

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

Indirect Debt Limitations; The Ten Mill Tax Limitation

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

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

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

A subdivision’s allocation of inside millage can be increased by action of the Franklin County Budget Commission

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

The ten mill limitation applies even if the debt service on 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.

Such determinations are made by the County Auditor who has certified to the city that there is sufficient uncommitted millage within the ten mill limitation to service the city's unvoted general obligation debt. The following table represents the estimated inside millage for the city and its overlapping subdivisions as of October 25, 2017. Currently, the city has \$550.78 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	5.6328	5.6328	5.6328
Overlapping			
County	0.8504	1.6993	0.4975
School District	0.4312	--	0.0279
Joint Vocational School District	--	0.0504	--
Solid Waste Authority of Central Ohio	0.3955	0.3955	0.3955
Township	2.5231	--	--
Total Millage Required	9.8330	7.7780	6.5537
Maximum Millage Permitted	10.0000	10.0000	10.0000
Remaining Millage Capacity	0.1670	2.2220	3.4463

Debt Service Payments

During fiscal year 2017, the city will have retired approximately \$246.0 million in principal of general obligation debt and issued an additional \$322.6 million in general obligation bonds and notes. Along with new debt, the city refunds existing debt to try and achieve the maximum amount of savings possible. As of October 25, 2017, beginning with fiscal year 2018, approximately 67.2% of the principal payments on the city's outstanding general obligation and revenue bonds will fully mature within the next 10 years. The table below demonstrates the debt service schedule for existing general obligation bonds and revenue bonds and is exclusive of OWDA outstanding balances.

EXISTING DEBT SERVICE			
GENERAL OBLIGATION AND REVENUE BONDS			
Period Ending	Principal	Interest	Total
2018	\$ 247,045,825	\$ 127,264,922	\$ 374,310,747
2019	248,912,821	118,091,960	367,004,781
2020	238,162,821	108,723,671	346,886,492
2021	228,657,820	99,822,543	328,480,363
2022	219,352,820	90,274,171	309,626,991
2023	209,240,000	81,441,220	290,681,220
2024	207,460,000	72,233,465	279,693,465
2025	213,820,000	63,209,098	277,029,098
2026	188,240,000	54,109,382	242,349,382
2027	173,610,000	44,744,644	218,354,644
2028	185,250,000	37,008,788	222,258,788
2029	189,040,000	30,042,670	219,082,670
2030	180,085,000	22,462,576	202,547,576
2031	170,790,000	15,082,834	185,872,834
2032	150,585,000	9,394,078	159,979,078
2033	64,350,000	5,883,055	70,233,055
2034	42,200,000	3,771,594	45,971,594
2035	29,415,000	2,387,049	31,802,049
2036	24,780,000	1,469,516	26,249,516
2037	17,740,000	657,354	18,397,354
2038	6,305,000	105,924	6,410,924
Total	<u>\$ 3,235,042,107</u>	<u>\$ 988,180,514</u>	<u>\$ 4,223,222,621</u>

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	2018	2019	2020	2021	2022	Total
SIT Fund Supported	\$ 198,205,948	\$ 196,732,693	\$ 187,039,599	\$ 175,803,027	\$ 164,663,153	\$ 922,444,420
Non-Enterprise Sub Total	\$ 198,205,948	\$ 196,732,693	\$ 187,039,599	\$ 175,803,027	\$ 164,663,153	\$ 922,444,420
Enterprise Funds						
Water	\$ 78,329,641	\$ 74,083,618	\$ 69,071,036	\$ 65,299,411	\$ 60,453,236	\$ 347,236,942
Sanitary Sewer	71,778,572	71,401,270	68,400,509	67,111,881	65,776,910	344,469,142
Storm	15,016,719	14,714,085	13,512,052	12,254,976	11,597,323	67,095,155
Electricity	1,053,775	582,275	561,525	544,275	532,025	3,273,875
Enterprise Sub Total	\$ 166,178,707	\$ 160,781,248	\$ 151,545,122	\$ 145,210,543	\$ 138,359,494	\$ 762,075,114
Internal Service Funds						
Fleet Management	\$ 5,214,692	\$ 5,200,387	\$ 4,752,105	\$ 4,533,465	\$ 4,414,701	\$ 24,115,350
Information Services	4,711,400	4,290,453	3,549,666	2,933,328	2,189,643	17,674,490
Internal Service Sub Total	\$ 9,926,092	\$ 9,490,840	\$ 8,301,771	\$ 7,466,793	\$ 6,604,344	\$ 41,789,840
Total	\$ 374,310,747	\$ 367,004,781	\$ 346,886,492	\$ 328,480,363	\$ 309,626,991	\$ 1,726,309,374

* Interest payments associated with variable rate debt are not included.

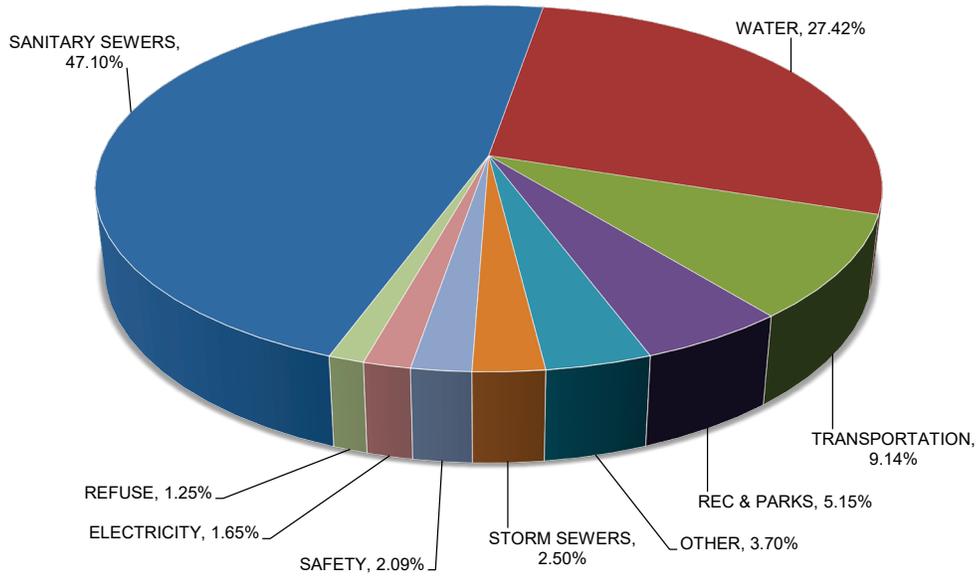
The Proposed 2018-2023 Capital Improvement Program

The proposed Capital Improvement Program provides approximately \$2.92 billion in funding for various capital improvements for the period of 2018-2023. Of this amount, \$592.36 million is to be supported by the SIT while \$2.30 billion will be supported by the enterprise agencies of the city. The proposed 2018-2023 CIP represents a 2.16% increase over the adopted 2017-2022 CIP. The proposed 2018 CIB totals approximately \$567.75 million.

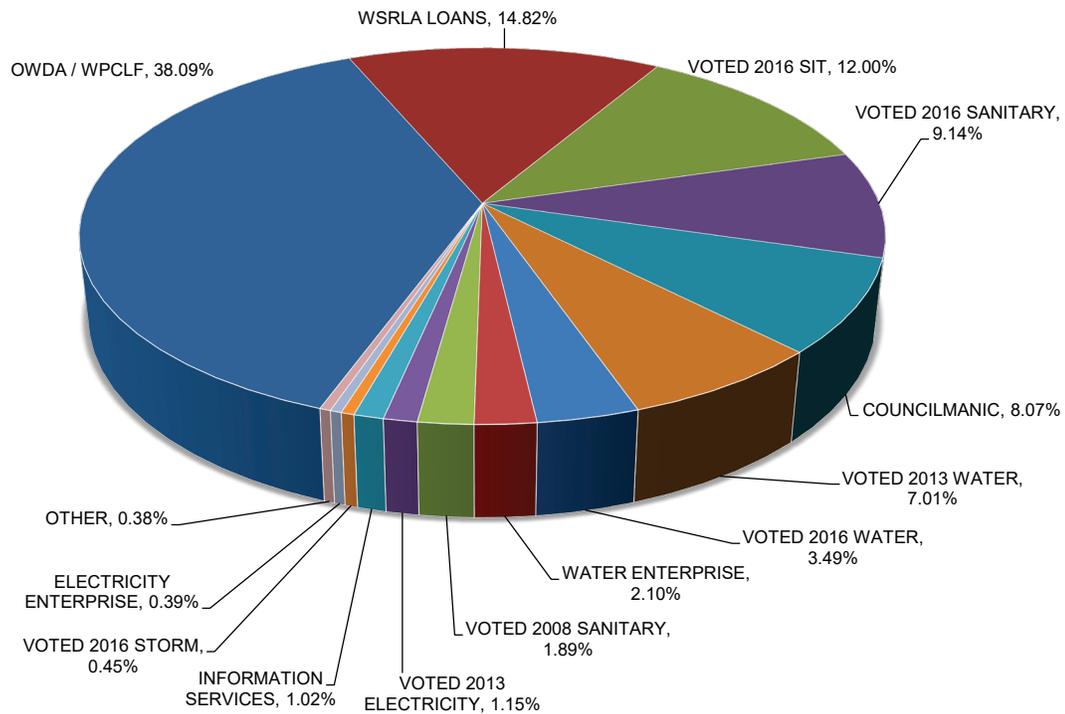
The administration intends to continue to review the proposed CIP through the end of the year. It is possible that adjustments to the proposed plan could occur to accommodate changes in priorities and financial assumptions.

PROPOSED 2018-2023 CAPITAL IMPROVEMENTS PROGRAM

PERCENT BY DIVISION



PERCENT BY FUNDING SOURCE



Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
PUBLIC SAFETY								
POLICE								
30-03 Police Facility Renovation	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ 1,680,000	\$ 2,080,000	Councilmanic SIT Supported
30-03 Police Facility Renovation	1,680,000	1,680,000	1,680,000	1,680,000	1,280,000	-	8,000,000	Voted 2016 Debt SIT Supported
Subtotal - POLICE	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 1,680,000	\$ 10,080,000	
FIRE								
30-04 Fire Facility Renovation	-	-	-	-	-	1,145,000	1,145,000	Councilmanic SIT Supported
30-04 Fire Facility Renovation	1,320,000	1,320,000	1,320,000	1,320,000	1,320,000	175,000	6,775,000	Voted 2016 Debt SIT Supported
Fire Apparatus Replacement - Medics	-	-	-	-	-	2,000,000	2,000,000	Councilmanic SIT Supported
Fire Apparatus Replacement - Medics	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	-	10,000,000	Voted 2016 Debt SIT Supported
Fire Apparatus Replacement - Platform Ladders	-	-	-	-	-	2,000,000	2,000,000	Councilmanic SIT Supported
Fire Apparatus Replacement - Platform Ladders	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	-	10,000,000	Voted 2016 Debt SIT Supported
Fire Apparatus Replacement - Engines	-	-	-	-	-	2,000,000	2,000,000	Councilmanic SIT Supported
Fire Apparatus Replacement - Engines	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	-	10,000,000	Voted 2016 Debt SIT Supported
Fire Station #16	7,000,000	-	-	-	-	-	7,000,000	Voted 2016 Debt SIT Supported
Subtotal - FIRE	\$ 14,320,000	\$ 7,320,000	\$ 50,920,000					
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	2,748,000	2,748,000	2,748,000	2,748,000	2,748,000	2,748,000	16,488,000	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	2,642,000	2,642,000	2,642,000	2,642,000	2,642,000	2,642,000	15,852,000	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	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 8,690,000	\$ 52,140,000	
FLEET MANAGEMENT								
Fleet Automated Fuel Location Upgrades	-	100,000	100,000	100,000	100,000	100,000	500,000	Fleet Management (Unvoted)
Fleet Equipment Replacement	-	100,000	100,000	100,000	100,000	100,000	500,000	Fleet Management (Unvoted)
Fuel Tank Management	400,000	600,000	600,000	600,000	600,000	600,000	3,400,000	Fleet Management (Unvoted)
Subtotal - FLEET MANAGEMENT	\$ 400,000	\$ 800,000	\$ 4,400,000					
TECHNOLOGY								
TECHNOLOGY ADMINISTRATION								
47-02 Data Center Facility Upgrades	-	100,000	200,000	1,200,000	100,000	200,000	1,800,000	Information Services
City Hall Data Center Facility Upgrades	30,000	40,000	40,000	30,000	40,000	40,000	220,000	Information Services
47-02 Disaster Recovery Project	-	100,000	-	325,000	100,000	-	525,000	Information Services
47-02 Connectivity Project Fiber/Wireless	750,000	1,250,000	1,250,000	1,250,000	1,250,000	1,250,000	7,000,000	Information Services
47-02 CTSS Fiber Purchase B,C,D	900,000	-	900,000	-	1,000,000	-	2,800,000	Information Services
47-02 Enterprise System Upgrades	1,700,000	425,000	400,000	375,000	1,000,000	650,000	4,550,000	Information Services
Enterprise System Upgrades - Security Program	190,000	290,000	200,000	200,000	100,000	300,000	1,280,000	Information Services
Asset Management	190,000	100,000	200,000	200,000	-	-	690,000	Information Services
Enterprise System Upgrades - GIS	90,000	250,000	90,000	90,000	90,000	90,000	700,000	Information Services
Enterprise System Upgrades - Applications	150,000	150,000	150,000	-	150,000	150,000	750,000	Information Services
E-Gov Initiatives	270,000	100,000	450,000	-	250,000	250,000	1,320,000	Information Services

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
E-Gov Initiatives - Mobile Application	-	150,000	250,000	-	250,000	250,000	900,000	Information Services
E-Gov Initiatives- SharePoint	100,000	100,000	100,000	-	150,000	100,000	550,000	Information Services
CS Telephony Upgrade - VOIP	735,000	330,000	295,000	200,000	200,000	730,000	2,490,000	Information Services
IVR Telephony Enhancements-Upgrades	40,000	100,000	100,000	100,000	100,000	100,000	540,000	Information Services
Media Services - Control Room Equipment	-	-	-	-	150,000	-	150,000	Information Services
Media Services - Studio Equipment	-	150,000	-	-	-	-	150,000	Information Services
Media Services - Field Camera System	-	50,000	25,000	-	-	25,000	100,000	Information Services
Media Services - NLE Editor Purchases	-	-	25,000	-	-	-	25,000	Information Services
Unified Communications	150,000	-	150,000	-	200,000	-	500,000	Information Services
Network Improvements	430,000	430,000	400,000	400,000	630,000	600,000	2,890,000	Information Services
Subtotal - TECHNOLOGY ADMINISTRATION	\$ 5,725,000	\$ 4,115,000	\$ 5,225,000	\$ 4,370,000	\$ 5,760,000	\$ 4,735,000	\$ 29,930,000	
RECREATION AND PARKS								
51 Urban Infra.- Rec & Parks	-	-	-	-	248,000	753,200	1,001,200	Councilmanic SIT Supported
51 Urban Infra.- Rec & Parks	753,200	753,200	753,200	753,200	505,200	-	3,518,000	Voted 2016 Debt SIT Supported
51-01 Swimming Facilities	-	-	-	-	-	2,318,000	4,636,000	Councilmanic SIT Supported
51-01 Swimming Facilities	2,318,000	2,318,000	2,318,000	2,318,000	-	-	9,272,000	Voted 2016 Debt SIT Supported
51-01 Park & Playground Development	-	-	-	-	-	806,000	806,000	Councilmanic SIT Supported
51-01 Park & Playground Development	806,000	806,000	806,000	806,000	806,000	-	4,030,000	Voted 2016 Debt SIT Supported
Park and Playground - Misc.	-	-	-	-	-	200,000	200,000	Councilmanic SIT Supported
Park and Playground - Misc.	200,000	200,000	200,000	200,000	200,000	-	1,000,000	Voted 2016 Debt SIT Supported
Hard Surface Improvements: Yearly Improvements	-	-	-	-	-	800,000	800,000	Councilmanic SIT Supported
Hard Surface Improvements: Yearly Improvements	800,000	800,000	800,000	800,000	800,000	-	4,000,000	Voted 2016 Debt SIT Supported
Park & Playground - Project Cost Allocation	-	-	-	-	-	225,000	225,000	Councilmanic SIT Supported
Park & Playground - Project Cost Allocation	225,000	225,000	225,000	225,000	225,000	-	1,125,000	Voted 2016 Debt SIT Supported
51-01 Facility Renovations	-	-	-	-	5,809,000	5,809,000	11,618,000	Councilmanic SIT Supported
51-01 Facility Renovations	1,309,000	5,809,000	5,809,000	5,809,000	-	-	18,736,000	Voted 2016 Debt SIT Supported
Facility Improvements - Contingencies	-	-	-	-	-	440,000	440,000	Councilmanic SIT Supported
Facility Improvements - Contingencies	440,000	440,000	440,000	440,000	440,000	-	2,200,000	Voted 2016 Debt SIT Supported
HVAC Improvements - Various Facilities	-	-	-	-	3,150,000	3,150,000	6,300,000	Councilmanic SIT Supported
HVAC Improvements - Various Facilities	3,150,000	3,150,000	3,150,000	3,150,000	-	-	12,600,000	Voted 2016 Debt SIT Supported
Facility Improvements - Project Cost Allocation	-	-	-	-	-	225,000	225,000	Councilmanic SIT Supported
Facility Improvements - Project Cost Allocation	225,000	225,000	225,000	225,000	225,000	-	1,125,000	Voted 2016 Debt SIT Supported
Facility Improvements - Roofs	-	-	-	-	-	800,000	800,000	Councilmanic SIT Supported
Facility Improvements - Roofs	800,000	800,000	800,000	800,000	800,000	-	4,000,000	Voted 2016 Debt SIT Supported
Linden Community Recreation Center	14,000,000	-	-	-	-	-	14,000,000	Voted 2016 Debt SIT Supported
Street Trees - Green Initiative	-	-	-	-	-	400,000	400,000	Councilmanic SIT Supported
Street Trees - Green Initiative	400,000	400,000	400,000	400,000	400,000	-	2,000,000	Voted 2016 Debt SIT Supported
Maintenance Equipment - Parks	-	-	-	-	-	250,000	250,000	Councilmanic SIT Supported
Maintenance Equipment - Parks	250,000	250,000	250,000	250,000	250,000	-	1,250,000	Voted 2016 Debt SIT Supported
Maintenance Equipment - Sports	-	-	-	-	-	50,000	50,000	Councilmanic SIT Supported
Maintenance Equipment - Sports	50,000	50,000	50,000	50,000	50,000	-	250,000	Voted 2016 Debt SIT Supported
51-01 Park Acquisition	-	-	-	-	-	1,000,000	1,000,000	Councilmanic SIT Supported
51-01 Park Acquisition	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	5,000,000	Voted 2016 Debt SIT Supported
Central Maintenance Zone Headquarters	3,375,000	-	-	-	-	-	3,375,000	Voted 2013 Debt SIT Supported
Central Maintenance Zone Headquarters	1,125,000	-	-	-	-	-	1,125,000	Voted 2016 Debt SIT Supported
Bikeway Trail Safety - General	-	-	-	-	-	433,800	433,800	Councilmanic SIT Supported
Bikeway Trail Safety - General	433,800	433,800	433,800	433,800	433,800	-	2,169,000	Voted 2016 Debt SIT Supported
51-01 Greenways Projects	-	-	-	-	3,000,000	3,000,000	6,000,000	Councilmanic SIT Supported
51-01 Greenways Projects	3,000,000	3,000,000	3,000,000	3,000,000	-	-	12,000,000	Voted 2016 Debt SIT Supported
Watercourse Bike Path Development & Connection Improvements	-	-	-	-	-	1,000,000	1,000,000	Councilmanic SIT Supported
Watercourse Bike Path Development & Connection Improvements	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	5,000,000	Voted 2016 Debt SIT Supported
51-01 Safe Playgrounds	-	-	-	-	-	500,000	500,000	Councilmanic SIT Supported
51-01 Safe Playgrounds	500,000	500,000	500,000	500,000	500,000	-	2,500,000	Voted 2016 Debt SIT Supported

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)									
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source	
Golf - Equipment Replacements	-	-	-	-	-	200,000	200,000	Councilmanic SIT Supported	
Golf - Equipment Replacements	200,000	200,000	200,000	200,000	200,000	-	1,000,000	Voted 2016 Debt SIT Supported	
Golf - Hard Surface Improvements	-	-	-	-	-	70,000	70,000	Councilmanic SIT Supported	
Golf - Hard Surface Improvements	70,000	70,000	70,000	70,000	70,000	-	350,000	Voted 2016 Debt SIT Supported	
Golf - Miscellaneous Improvements	-	-	-	-	-	50,000	50,000	Councilmanic SIT Supported	
Golf - Miscellaneous Improvements	50,000	50,000	50,000	50,000	50,000	-	250,000	Voted 2016 Debt SIT Supported	
Golf - General Facility Improvements	-	-	-	-	-	300,000	300,000	Councilmanic SIT Supported	
Golf - General Facility Improvements	300,000	300,000	300,000	300,000	300,000	-	1,500,000	Voted 2016 Debt SIT Supported	
Subtotal - RECREATION AND PARKS	\$ 36,780,000	\$ 22,780,000	\$ 150,680,000						
Public Service									
TRANSPORTATION									
UIRF - Urban Infrastructure Recovery Fund (59-12)	-	-	-	-	5,651,813	5,651,813	11,303,626	Councilmanic SIT Supported	
UIRF - Urban Infrastructure Recovery Fund (59-12)	5,651,813	5,651,813	5,651,813	5,651,813	-	-	22,607,252	Voted 2016 Debt SIT Supported	
Street Equipment - Traffic Management	-	-	-	-	428,397	428,397	856,794	Councilmanic SIT Supported	
Street Equipment - Traffic Management	428,397	428,397	428,397	428,397	-	-	1,713,588	Voted 2016 Debt SIT Supported	
Street Equipment - Infrastructure Management	-	-	-	-	428,397	428,397	856,794	Councilmanic SIT Supported	
Street Equipment - Infrastructure Management	428,397	428,397	428,397	428,397	-	-	1,713,588	Voted 2016 Debt SIT Supported	
NCR-TBD	-	-	-	-	2,500,000	2,500,000	5,000,000	Councilmanic SIT Supported	
NCR-TBD	2,500,000	2,500,000	2,500,000	2,500,000	-	-	10,000,000	Voted 2016 Debt SIT Supported	
Alley Rehabilitation - Misc.	-	-	-	-	1,500,000	1,500,000	3,000,000	Councilmanic SIT Supported	
Alley Rehabilitation - Misc.	1,500,000	1,500,000	1,500,000	1,500,000	-	-	6,000,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - SCMRP reimbursements	-	-	-	-	2,550,000	2,550,000	5,100,000	Councilmanic SIT Supported	
Roadway Improvements - SCMRP reimbursements	2,550,000	2,550,000	2,550,000	2,550,000	-	-	10,200,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Utility Relocation Reimbursements	-	-	-	-	100,000	100,000	200,000	Councilmanic SIT Supported	
Roadway Improvements - Utility Relocation Reimbursements	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Miscellaneous Construction Inspection	-	-	-	-	100,000	100,000	200,000	Councilmanic SIT Supported	
Roadway Improvements - Miscellaneous Construction Inspection	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2016 Debt SIT Supported	
Roadway Improvements - Miscellaneous Right of Way Acquisition	-	-	-	-	100,000	100,000	200,000	Councilmanic SIT Supported	
Roadway Improvements - Miscellaneous Right of Way Acquisition	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2016 Debt SIT Supported	
Curb Reconstruction - Qwik Curb Commodity	-	-	-	-	50,000	50,000	100,000	Councilmanic SIT Supported	
Curb Reconstruction - Qwik Curb Commodity	50,000	50,000	50,000	50,000	-	-	200,000	Voted 2016 Debt SIT Supported	
Resurfacing - Pavement Management Services	-	1,000,000	-	-	-	-	1,000,000	Voted 2016 Debt SIT Supported	
Resurfacing - Resurfacing Projects	-	-	-	17,395,000	18,450,000	18,450,000	54,295,000	Councilmanic SIT Supported	
Resurfacing - Resurfacing Projects	17,180,400	16,450,000	18,450,000	1,055,000	-	-	53,135,400	Voted 2016 Debt SIT Supported	
Resurfacing - Urban Paving - SR33 Dublin Rd/Spring Street (PID 86651)	42,000	-	-	-	-	-	42,000	Voted 2016 Debt SIT Supported	
Resurfacing -- West Broad Street Urban Paving (PID 86645)	57,000	-	-	-	-	-	57,000	Voted 2016 Debt SIT Supported	
Resurfacing - Asset Management	-	1,000,000	-	-	-	-	1,000,000	Voted 2016 Debt SIT Supported	
Resurfacing - Urban Paving-FRA 23-18.53 (Morse Rd and High St)	362,000	-	-	-	-	-	362,000	Voted 2016 Debt SIT Supported	
Resurfacing-Urban Paving-FRA 62-12.44 (Town St/Glenwood Av/Rich St)	340,600	-	-	-	-	-	340,600	Voted 2016 Debt SIT Supported	
Resurfacing-Urban Paving-FRA 62DC-1.61 (Town St)	80,000	-	-	-	-	-	80,000	Voted 2016 Debt SIT Supported	
Resurfacing-Urban Paving-FRA-161-5.77 (Dublin-Granville Rd)	208,000	-	-	-	-	-	208,000	Voted 2016 Debt SIT Supported	
Resurfacing - In House Design Project Design and Management Software	150,000	-	-	-	-	-	150,000	Voted 2016 Debt SIT Supported	
Resurfacing - In House Design Right of Way Fund	-	-	-	-	50,000	50,000	100,000	Councilmanic SIT Supported	
Resurfacing - In House Design Right of Way Fund	50,000	50,000	50,000	50,000	-	-	200,000	Voted 2016 Debt SIT Supported	
Resurfacing - Urban Paving - DEL-750-4.43 Polaris Parkway	30,000	-	-	-	-	-	30,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation	-	-	50,000	-	-	-	50,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - General Engineering Bridges	-	-	-	-	300,000	-	300,000	Councilmanic SIT Supported	
Bridge Rehabilitation - General Engineering Bridges	300,000	-	300,000	-	-	-	600,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - Godown Road Bridge	525,000	-	-	-	-	-	525,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - Annual Citywide Contract	-	-	-	-	3,071,393	3,371,393	6,442,786	Councilmanic SIT Supported	
Bridge Rehabilitation - Annual Citywide Contract	271,393	1,871,393	2,021,393	3,371,393	-	-	7,535,572	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - Front Street over Railroad South of Nationw ide	-	-	1,000,000	-	-	-	1,000,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - Independence Village Culvert Replacements	500,000	-	-	-	-	-	500,000	Voted 2016 Debt SIT Supported	
Bridge Rehabilitation - Downtown Bridges	-	1,500,000	-	-	-	-	1,500,000	Voted 2016 Debt SIT Supported	

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Bridge Rehabilitation - Parsons Road under the Railroad Retaining Walls	250,000	-	-	-	-	-	250,000	Voted 2016 Debt SIT Supported
Bridge Rehabilitation - Second Ave. Railroad Bridge Replacement	225,000	-	-	-	-	-	225,000	Voted 2016 Debt SIT Supported
Bridge Rehabilitation - Calumet over Walhalla	500,000	-	-	-	-	-	500,000	Voted 2016 Debt SIT Supported
Bridge Rehabilitation - Brentnell Neighborhood Culverts	800,000	-	-	-	-	-	800,000	Voted 2016 Debt SIT Supported
Housing Initiatives - Roadway	-	-	-	-	800,000	800,000	1,600,000	Councilmanic SIT Supported
Housing Initiatives - Roadway	800,000	800,000	800,000	800,000	-	-	3,200,000	Voted 2016 Debt SIT Supported
Bikeway Development	-	-	-	-	300,000	300,000	600,000	Councilmanic SIT Supported
Bikeway Development	245,000	305,000	300,000	300,000	-	-	1,150,000	Voted 2016 Debt SIT Supported
Bikeway Development - Olentangy River Road Shared Use Path - Kinnear to Lane	515,000	-	-	-	-	-	515,000	Voted 2016 Debt SIT Supported
Bikeway Development - Morse Road at the Alum Creek Trail	85,000	-	-	-	-	-	85,000	Voted 2016 Debt SIT Supported
Bikeway Development - Norton Road Shared Use Path	-	655,000	-	-	-	-	655,000	Voted 2016 Debt SIT Supported
Bikeway Development - Olentangy River Rd SUP-N Broadway to Garrett	-	220,000	-	800,000	-	-	1,020,000	Voted 2016 Debt SIT Supported
Bikeway Development - Trabue Road Shared Use Path over Railroad	1,080,000	-	-	-	-	-	1,080,000	Voted 2016 Debt SIT Supported
Bikeway Development-Bikeway Development	-	-	-	-	1,700,000	1,700,000	3,400,000	Councilmanic SIT Supported
Bikeway Development-Bikeway Development	-	820,000	950,000	900,000	-	-	2,670,000	Voted 2016 Debt SIT Supported
Bikeway Development-Refugee Rd over Big Walnut Creek Shared Use Path	75,000	-	750,000	-	-	-	825,000	Voted 2016 Debt SIT Supported
Traffic Signal Installation - Commodities	-	-	-	-	950,000	950,000	1,900,000	Councilmanic SIT Supported
Traffic Signal Installation - Commodities	950,000	950,000	950,000	950,000	-	-	3,800,000	Voted 2016 Debt SIT Supported
Sign Upgrading/Streetname Signs - Commodities	-	-	-	-	325,000	325,000	650,000	Councilmanic SIT Supported
Sign Upgrading/Streetname Signs - Commodities	325,000	325,000	325,000	325,000	-	-	1,300,000	Voted 2016 Debt SIT Supported
School Flashers - School Flasher Upgrade	-	-	-	-	50,000	50,000	100,000	Councilmanic SIT Supported
School Flashers - School Flasher Upgrade	50,000	50,000	50,000	50,000	-	-	200,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Commodities-Overhead Beacons and Signals	-	310,000	-	-	-	-	310,000	Voted 2016 Debt SIT Supported
Permanent Pavement Markings	-	-	-	-	500,000	500,000	1,000,000	Councilmanic SIT Supported
Permanent Pavement Markings	500,000	500,000	500,000	500,000	-	-	2,000,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Sidewalk Program	-	-	-	-	3,300,000	3,300,000	6,600,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Sidewalk Program	184,000	-	-	1,354,000	-	-	1,538,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvement - Sidewalk Replacement (Tree Root)	-	-	-	-	400,000	400,000	800,000	Councilmanic SIT Supported
Pedestrian Safety Improvement - Sidewalk Replacement (Tree Root)	600,000	400,000	400,000	400,000	-	-	1,800,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvement - Wilson Road Shared Use Path	1,300,000	-	-	-	-	-	1,300,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Sidewalk NOV	-	-	-	-	300,000	300,000	600,000	Councilmanic SIT Supported
Pedestrian Safety Improvements - Sidewalk NOV	300,000	300,000	300,000	300,000	-	-	1,200,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Sidewalk Design III	-	1,500,000	-	-	-	-	1,500,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Refugee Road - Winchester Pke to Hamilton Rd	-	780,000	-	-	-	-	780,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - SRTS Sidewalks-McGuffey and Duxberry	70,000	-	-	-	-	-	70,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Third Avenue Sidewalks	-	-	50,000	300,000	-	-	350,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Kingsford Road Sidewalks	-	-	1,532,797	-	-	-	1,532,797	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements - Binns Burroughs SRTS (HCMP)	66,000	-	-	-	-	-	66,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements-Cleveland Avenue to Lehner Road	50,000	-	-	-	-	-	50,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements-Agler Road Sidewalks	-	224,000	50,000	846,000	-	-	1,120,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements-Maize Road Sidewalks	-	250,000	150,000	800,000	-	-	1,200,000	Voted 2016 Debt SIT Supported
Pedestrian Safety Improvements-Linden Blueprint New Sidewalk Contributions	100,000	-	-	-	-	-	100,000	Voted 2016 Debt SIT Supported
SRTS Souder Avenue Bike Lanes and Sidewalks	40,000	25,000	-	-	-	-	65,000	Voted 2016 Debt SIT Supported
SRTS Toronto Street Sidewalks	40,000	25,000	-	-	-	-	65,000	Voted 2016 Debt SIT Supported
Poindexter Village Roadways	4,000,000	-	-	-	-	-	4,000,000	Voted 2016 Debt SIT Supported
Operation Safewalks - CelebrateOne Sidewalk	300,000	136,000	-	-	-	-	436,000	Voted 2016 Debt SIT Supported
Operation Safewalks-Maple Canyon Avenue Sidewalks	250,000	50,000	1,517,203	-	-	-	1,817,203	Voted 2016 Debt SIT Supported
Operation Sidewalks - CelebrateOne Sidewalk Gaps	700,000	-	-	-	-	-	700,000	Voted 2016 Debt SIT Supported
Subtotal - TRANSPORTATION	\$ 47,905,000	\$ 43,905,000	\$ 267,430,000					
REFUSE COLLECTION								
Mechanized Collection Equipment - 96-Gallon Containers	-	-	-	-	300,000	300,000	600,000	Councilmanic SIT Supported
Mechanized Collection Equipment - 96-Gallon Containers	300,000	300,000	300,000	300,000	-	-	1,200,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - 300 Gallon Containers	-	-	-	-	725,000	725,000	1,450,000	Councilmanic SIT Supported
Mechanized Collection Equipment - 300 Gallon Containers	755,000	725,000	725,000	725,000	-	-	2,930,000	Voted 2016 Debt SIT Supported

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Mechanized Collection Equipment - Automated Side Loader Trucks	-	-	-	-	225,000	3,000,000	3,225,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Automated Side Loader Trucks	3,000,000	2,500,000	3,000,000	3,000,000	2,775,000	-	14,275,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Front-Box Loader Trucks	-	-	-	-	900,000	900,000	1,800,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Front-Box Loader Trucks	-	1,380,000	900,000	900,000	-	-	3,180,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Rear Loading Packer Trucks	1,000,000	-	-	-	-	-	1,000,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Semi-Automated Trucks	-	-	-	-	550,000	550,000	1,100,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Semi-Automated Trucks	-	600,000	550,000	550,000	-	-	1,700,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Flatbed Trucks	-	-	-	-	230,000	230,000	460,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Flatbed Trucks	-	-	230,000	230,000	-	-	460,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Compactor Trucks	-	-	-	-	250,000	250,000	500,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Compactor Trucks	-	450,000	250,000	250,000	-	-	950,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Knuckle Boom Trucks	1,000,000	-	-	-	-	-	1,000,000	Voted 2016 Debt SIT Supported
Mechanized Collection Equipment - Dumpsters	-	-	-	-	25,000	25,000	50,000	Councilmanic SIT Supported
Mechanized Collection Equipment - Dumpsters	25,000	25,000	25,000	25,000	-	-	100,000	Voted 2016 Debt SIT Supported
Alum Creek Remediation - Facility Improvements	-	-	-	-	100,000	100,000	200,000	Councilmanic SIT Supported
Alum Creek Remediation - Facility Improvements	-	100,000	100,000	100,000	-	-	300,000	Voted 2016 Debt SIT Supported
Subtotal - REFUSE COLLECTION	\$ 6,080,000	\$ 36,480,000						
Public Utilities								
STORM SEWER								
Fountain Square Stormwater System Improvements	3,496,726	-	-	-	-	-	3,496,726	WPCLF/OWDA
Storm Sewer Large Diameter Condition Assessment Phase 1	125,000	-	-	-	-	-	125,000	Voted 2013 Debt - Storm
Storm Sewer Large Diameter Condition Assessment Phase 1	1,420,000	-	-	-	-	-	1,420,000	Voted 2016 Debt - Storm
60-15 Petzinger Rd Stormwater Imps	-	173,892	-	-	-	-	173,892	Voted 2016 Debt - Storm
60-15 Petzinger Rd Stormwater Imps	-	1,275,202	-	-	-	-	1,275,202	WPCLF/OWDA
General Engineering Svcs - Storm	200,000	-	-	-	-	-	200,000	Voted 2013 Debt - Storm
General Engineering Svcs - Storm	200,000	400,000	400,000	-	-	-	1,000,000	Voted 2016 Debt - Storm
60-15 Linworth Rd/Meeklynn Dr Storm Sewer	-	562,754	-	-	-	-	562,754	Voted 2016 Debt - Storm
60-15 Linworth Rd/Meeklynn Dr Storm Sewer	-	-	530,450	-	-	-	530,450	WPCLF/OWDA
Linden Neighborhood Stormwater System Improvements Phase 2	-	106,090	-	-	-	-	106,090	Voted 2016 Debt - Storm
Linden Neighborhood Stormwater System Improvements Phase 2	1,060,900	-	-	-	-	-	1,060,900	WPCLF/OWDA
Lehnert Farms/Bolton Field Stormwater System Improvements	1,030,000	-	-	-	-	-	1,030,000	WPCLF/OWDA
Woodward Avenue Detention Basin Modifications	650,000	-	-	-	-	-	650,000	WPCLF/OWDA
Summit View Detention Basin Modifications	100,000	-	-	-	-	-	100,000	Voted 2013 Debt - Storm
Summit View Detention Basin Modifications	650,000	-	-	-	-	-	650,000	WPCLF/OWDA
Detention Basin Modifications III	100,000	-	-	-	-	-	100,000	Voted 2013 Debt - Storm
Detention Basin Modifications III	-	100,000	-	-	-	-	100,000	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
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 2013 Debt - Storm
Olde Beechwood Area Stormwater System Improvements	2,500,000	-	-	-	-	-	2,500,000	WPCLF/OWDA
Rathbone Avenue Stormwater System Improvements	1,900,000	-	-	-	-	-	1,900,000	WPCLF/OWDA
Holt Avenue / Somersworth Drive Stormwater System Improvements	1,000,000	-	-	-	-	-	1,000,000	WPCLF/OWDA
SIOC Facility Stormwater Improvements	2,185,454	-	-	-	-	-	2,185,454	WPCLF/OWDA
Blueprint Storm Sewer Cleaning Contract	-	1,591,350	-	-	-	-	1,591,350	Voted 2016 Debt - Storm
Holton Park and Eureka Avenue Green Infrastructure Improvements	-	53,045	163,910	-	-	-	216,955	Voted 2016 Debt - Storm
Holton Park and Eureka Avenue Green Infrastructure Improvements	-	-	1,092,727	-	-	-	1,092,727	WPCLF/OWDA
ST-21, ST-22, ST-23 Improvements	2,500,000	-	154,500	-	3,000,000	-	5,654,500	Voted 2016 Debt - Storm
ST-21, ST-22, ST-23 Improvements	-	-	-	-	20,000,000	-	20,000,000	WPCLF/OWDA
Stormwater Strategic Plan, Phase 2	-	163,909	-	-	-	-	163,909	Voted 2016 Debt - Storm

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Central Avenue Underpass Stormwater System Improvements	300,000	-	-	-	-	-	300,000	Voted 2013 Debt - Storm
Windsor Ave Stormwater System Improvements	600,000	-	-	-	-	-	600,000	WPCLF/OWDA
SMOC SCADA Modernization at Remote Stormwater Facilities	-	491,728	-	-	-	-	491,728	Voted 2016 Debt - Storm
SMOC SCADA Modernization at Remote Stormwater Facilities	-	-	1,260,570	-	-	-	1,260,570	WPCLF/OWDA
Krieger Court Stormwater Improvements	298,700	-	327,818	-	-	-	626,518	Voted 2016 Debt - Storm
Krieger Court Stormwater Improvements	-	-	-	2,251,018	-	-	2,251,018	WPCLF/OWDA
Tw in Lakes Upper Dam and Greenlaw n Low Head Dam Improvements	-	53,045	163,909	-	-	-	216,954	Voted 2016 Debt - Storm
Tw in Lakes Upper Dam and Greenlaw n Low Head Dam Improvements	-	-	1,639,090	-	-	-	1,639,090	WPCLF/OWDA
Barnett Road Stormwater Improvements Project	-	-	147,319	-	-	-	147,319	Voted 2016 Debt - Storm
Barnett Road Stormwater Improvements Project	-	-	1,202,000	-	-	-	1,202,000	WPCLF/OWDA
Storm Sewer Assessment - Clintonville 2 Blueprint Area	-	-	2,050,495	-	-	-	2,050,495	WPCLF/OWDA
Storm Sewer Assessment - North Linden 2 Blueprint Area	-	-	-	-	2,602,152	-	2,602,152	WPCLF/OWDA
Storm Sewer Assessment - Hilltop 2 Blueprint Area	-	-	-	-	2,128,809	-	2,128,809	WPCLF/OWDA
Storm Sewer Assessment - James Livingston 5 Blueprint Area	-	-	-	1,531,071	-	-	1,531,071	WPCLF/OWDA
Storm Sewer Assessment - James Livingston 3 Blueprint Area	-	-	-	-	-	1,661,297	1,661,297	WPCLF/OWDA
Storm Sewer Assessment - Plum Ridge Blueprint Area	-	-	-	226,813	-	-	226,813	Voted 2016 Debt - Storm
Bethel Road Culvert Rehabilitation Project	1,570,750	-	-	-	-	-	1,570,750	WPCLF/OWDA
Subtotal - STORM SEWER	\$ 22,267,530	\$ 5,621,015	\$ 9,232,788	\$ 4,858,902	\$ 28,560,961	\$ 2,411,297	\$ 72,972,493	
SANITARY SEWERS								
Real Time Control - TBD	500,000	500,000	500,000	-	-	-	1,500,000	Voted 2016 Debt - Sanitary Sewer
Real Time Control - Alum Creek Storm Tanks	50,000	1,000,000	150,000	-	-	-	1,200,000	Voted 2016 Debt - Sanitary Sewer
Real Time Control - Alum Creek Storm Tanks	1,500,000	-	-	-	-	-	1,500,000	WPCLF/OWDA
Real Time Control - Sewer System Optimization	500,000	-	-	-	-	-	500,000	Voted 2008 Debt-Sanitary Sewer
DOSD Security & Emergency Preparedness	100,000	-	-	-	-	-	100,000	Voted 2008 Debt-Sanitary Sewer
DOSD Security & Emergency Preparedness	-	100,000	-	-	-	-	100,000	Voted 2016 Debt - Sanitary Sewer
SSES Overall Engineering Consultant (OEC) Services	-	300,000	300,000	300,000	-	-	900,000	Voted 2016 Debt - Sanitary Sewer
Big Walnut Sanitary Trunk Extension, Phase 2	1,092,727	-	-	-	-	-	1,092,727	Voted 2008 Debt-Sanitary Sewer
Big Walnut Sanitary Trunk Extension, Phase 2	-	-	6,000,000	1,000,000	-	-	7,000,000	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	350,000	-	-	-	-	-	350,000	Voted 2008 Debt-Sanitary Sewer
Central College Subtrunk Extension Phase 3	-	-	25,000,000	-	-	-	25,000,000	WPCLF/OWDA
60-05 Blacklick Creek Interceptor	2,090,900	-	-	-	-	-	2,090,900	Voted 2008 Debt-Sanitary Sewer
60-05 Blacklick Creek Interceptor	-	273,182	-	-	-	-	273,182	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Sanitary Interceptor Sewer CA/CI	2,185,454	-	-	-	-	-	2,185,454	Voted 2008 Debt-Sanitary Sewer
60-05 Blacklick Creek Sanitary Interceptor Sewer CA/CI	-	2,251,018	-	-	-	-	2,251,018	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Interceptor Air Quality Facility Improvements	-	-	382,455	393,928	-	-	776,383	Voted 2016 Debt - Sanitary Sewer
60-05 Blacklick Creek Interceptor Air Quality Facility Improvements	-	-	-	3,939,281	-	-	3,939,281	WPCLF/OWDA
60-05 General Engineering Svcs Contract	200,000	-	-	-	-	-	200,000	Voted 2008 Debt-Sanitary Sewer
60-05 General Engineering Svcs Contract	-	200,000	200,000	-	-	-	400,000	Voted 2016 Debt - Sanitary Sewer
Roof Replacement for DPU Facilities	3,808,000	-	-	-	-	-	3,808,000	Voted 2008 Debt-Sanitary Sewer
Roof Replacement for DPU Facilities #2	200,850	-	-	-	-	-	200,850	Voted 2008 Debt-Sanitary Sewer
Roof Replacement for DPU Facilities #2	-	3,357,749	3,458,482	3,517,215	2,759,072	-	13,092,518	Voted 2016 Debt - Sanitary Sewer
Roof Replacement for DPU Facilities #3	-	-	-	-	528,629	2,865,725	3,394,354	Voted 2016 Debt - Sanitary Sewer
JPWWTP Biosolids Land Application Improvements	1,302,000	-	-	-	-	-	1,302,000	Voted 2008 Debt-Sanitary Sewer
JPWWTP Biosolids Land Application Improvements	15,759,000	-	-	-	-	-	15,759,000	WPCLF/OWDA
JPWWTP Digester Cover Rehab	-	197,800	197,800	-	-	-	395,600	Voted 2016 Debt - Sanitary Sewer
JPWWTP Digester Cover Rehab	1,978,000	1,978,000	1,978,000	-	-	-	5,934,000	WPCLF/OWDA
JPWWTP Cogeneration Facility	-	2,420,338	-	-	-	-	2,420,338	Voted 2016 Debt - Sanitary Sewer
JPWWTP Cogeneration Facility	962,020	12,872,579	-	-	-	-	13,834,599	WPCLF/OWDA
6005 Facilities & Equip Upgrade for WSST	1,200,000	-	-	-	-	-	1,200,000	Voted 2008 Debt-Sanitary Sewer
6005 Facilities & Equip Upgrade for WSST	12,000,000	-	-	-	-	-	12,000,000	WPCLF/OWDA
Short Circuit, Coordination, and Arc Flash Studies #1	318,270	218,546	225,102	-	-	-	761,918	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #2	500,000	-	-	-	-	-	500,000	Voted 2008 Debt-Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #3	550,000	500,000	500,000	-	-	-	1,550,000	Voted 2016 Debt - Sanitary Sewer

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
DPU General Engineering Consultant Services (GEC) #4	-	500,000	500,000	500,000	500,000	-	2,000,000	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #5	-	-	-	500,000	500,000	500,000	1,500,000	Voted 2016 Debt - Sanitary Sewer
DPU General Engineering Consultant Services (GEC) #6	-	-	-	-	-	500,000	500,000	Voted 2016 Debt - Sanitary Sewer
JPWWTP Small Capital Projects	400,000	-	-	-	-	-	400,000	Voted 2008 Debt-Sanitary Sewer
JPWWTP Small Capital Projects	-	400,000	400,000	400,000	400,000	400,000	2,000,000	Voted 2016 Debt - Sanitary Sewer
JPWWTP ACA Lightning Protection Upgrade	132,000	-	-	-	-	-	132,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Small Capital Projects	77,000	-	-	-	-	-	77,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Small Capital Projects	-	400,000	400,000	400,000	400,000	400,000	2,000,000	Voted 2016 Debt - Sanitary Sewer
SWWTP Building Heating Improvements - Boiler Revisions (RFP 011A)	1,828,970	-	-	-	-	-	1,828,970	Voted 2016 Debt - Sanitary Sewer
SWWTP Boiler System Operational Improvements (S81 Boiler TSFs) (RFP 015)	1,388,370	-	-	-	-	-	1,388,370	Voted 2008 Debt-Sanitary Sewer
SWWTP MCA HVAC System Replacement	773,000	-	-	-	-	-	773,000	Voted 2008 Debt-Sanitary Sewer
Compost Facility Small Capital Projects	-	-	400,000	400,000	400,000	400,000	1,600,000	Voted 2016 Debt - Sanitary Sewer
SMOC Small Capital Projects	300,000	-	-	-	-	-	300,000	Voted 2008 Debt-Sanitary Sewer
SMOC Small Capital Projects	-	300,000	300,000	300,000	300,000	300,000	1,500,000	Voted 2016 Debt - Sanitary Sewer
Fairwood Building Facilities Small Capital Projects	50,000	-	-	-	-	-	50,000	Voted 2008 Debt-Sanitary Sewer
Fairwood Building Facilities Small Capital Projects	-	50,000	50,000	50,000	50,000	50,000	250,000	Voted 2016 Debt - Sanitary Sewer
WWTFs Professional Construction Management Services #2	-	371,315	382,455	743,929	360,500	-	1,858,199	Voted 2016 Debt - Sanitary Sewer
WWTFs Professional Construction Management Services #3	-	-	-	-	350,000	360,500	710,500	Voted 2016 Debt - Sanitary Sewer
HVAC & Air Purification System Replacement for DPU Facilities, #1	522,725	1,673,570	1,723,779	1,769,696	1,391,129	-	7,080,899	Voted 2016 Debt - Sanitary Sewer
HVAC & Air Purification for DPU Facilities, #2	-	-	-	-	317,269	1,731,377	2,048,646	Voted 2016 Debt - Sanitary Sewer
DPU Hazardous Energy Control	159,135	54,637	225,102	57,964	59,703	61,494	618,035	Voted 2016 Debt - Sanitary Sewer
WWTFs Instrumentation and Control (I&C) Integration and Programming Part 2	-	515,000	515,000	-	-	-	1,030,000	Voted 2016 Debt - Sanitary Sewer
WWTFs Instrumentation and Control (I&C) Integration and Programming #3	-	-	-	515,000	500,000	500,000	1,515,000	Voted 2016 Debt - Sanitary Sewer
SWWTP Digestion Process Expansion	1,504,000	-	-	-	-	-	1,504,000	Voted 2008 Debt-Sanitary Sewer
SWWTP Digestion Process Expansion	18,800,000	-	-	-	-	-	18,800,000	WPCLF/OWDA
SWWTP Cogeneration Facility	-	1,685,781	-	-	-	-	1,685,781	Voted 2016 Debt - Sanitary Sewer
SWWTP Cogeneration Facility	660,230	9,105,843	-	-	-	-	9,766,073	WPCLF/OWDA
SWWTP Post Aeration Diffuser Replacement	171,000	1,544,400	-	-	-	-	1,715,400	Voted 2016 Debt - Sanitary Sewer
WWTF Upgrade - General Program #4	1,894,000	-	-	-	-	-	1,894,000	Voted 2008 Debt-Sanitary Sewer
WWTF Upgrade - General Program #4	-	1,894,000	1,894,000	1,894,000	-	-	5,682,000	Voted 2016 Debt - Sanitary Sewer
WWTF Upgrade - General Program #5	-	-	-	-	1,894,000	1,894,000	3,788,000	Voted 2016 Debt - Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment: Preliminary Treatment	-	1,106,118	-	-	-	-	1,106,118	Voted 2016 Debt - Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT): Clarification	-	1,174,118	-	-	-	-	1,174,118	Voted 2016 Debt - Sanitary Sewer
60-05 SWWTP Chemically Enhanced Primary Treatment (CEPT): Disinfection	-	1,090,870	-	-	-	-	1,090,870	Voted 2016 Debt - Sanitary Sewer
60-05 Compost Facility Odor Control Improvements	894,865	811,059	-	-	-	-	1,705,924	Voted 2016 Debt - Sanitary Sewer
60-05 Compost Facility Odor Control Improvements	1,500,000	9,196,762	-	-	-	-	10,696,762	WPCLF/OWDA
2018 Annual Lining Contract	850,000	-	-	-	-	-	850,000	Voted 2008 Debt-Sanitary Sewer
2018 Annual Lining Contract	5,000,000	-	-	-	-	-	5,000,000	WPCLF/OWDA
2019 Annual Lining Contract	-	850,000	-	-	-	-	850,000	Voted 2016 Debt - Sanitary Sewer
2019 Annual Lining Contract	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
2020 Annual Lining Contract	-	-	850,000	-	-	-	850,000	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	Voted 2016 Debt - Sanitary Sewer
2022 Annual Lining Contract	-	-	-	-	5,000,000	-	5,000,000	WPCLF/OWDA
2023 Annual Lining Contract	-	-	-	-	-	850,000	850,000	Voted 2016 Debt - Sanitary Sewer
2023 Annual Lining Contract	-	-	-	-	-	5,000,000	5,000,000	WPCLF/OWDA
Cleveland Avenue Sanitary Sewer Extension	154,500	1,014,882	-	-	-	-	1,169,382	Voted 2016 Debt - Sanitary Sewer
Cleveland Avenue Sanitary Sewer Extension	-	-	874,419	-	-	-	874,419	WPCLF/OWDA
Sewer System Capacity Model update 2012	1,000,000	-	-	-	-	-	1,000,000	Voted 2008 Debt-Sanitary Sewer
Sewer System Capacity Model update 2018	-	2,121,800	-	1,125,509	-	1,194,053	4,441,362	Voted 2016 Debt - Sanitary Sewer
Big Walnut Interceptor Lockbourne Subtrunk Canal Road Area	750,000	-	-	690,893	-	-	1,440,893	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	509,232	-	-	-	-	-	509,232	Voted 2008 Debt-Sanitary Sewer

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Lockbourne Subtrunk Air Quality Improvements	3,200,000	-	-	-	-	-	3,200,000	WPCLF/OWDA
Big Walnut Augmentation/Rickenbacker Intercept (BWAR) Lockbourne Subtrunk CA/CI	3,090,000	-	-	-	-	-	3,090,000	Voted 2008 Debt-Sanitary Sewer
Intermodal Sanitary Subtrunk Extension	150,000	-	-	-	-	-	150,000	Voted 2008 Debt-Sanitary Sewer
Intermodal Sanitary Subtrunk Extension	-	2,500,000	-	-	-	-	2,500,000	Voted 2016 Debt - Sanitary Sewer
Intermodal Sanitary Subtrunk Extension	-	-	-	20,600,000	-	-	20,600,000	WPCLF/OWDA
Rickenbacker Intermodal Sanitary Extension	750,000	-	-	690,893	-	-	1,440,893	Voted 2016 Debt - Sanitary Sewer
Rickenbacker Intermodal Sanitary Extension	-	-	-	3,500,000	-	-	3,500,000	WPCLF/OWDA
Upper Scioto West Subtrunk, Hayden Run Area, West of Cosgray Rd	-	-	-	-	-	450,000	450,000	Voted 2016 Debt - Sanitary Sewer
East Franklinton Phase 1	144,033	-	-	-	-	-	144,033	Voted 2008 Debt-Sanitary Sewer
East Franklinton Phase 1	1,398,373	-	-	-	-	-	1,398,373	WPCLF/OWDA
East Franklinton Phase 2	-	-	639,971	-	-	-	639,971	Voted 2016 Debt - Sanitary Sewer
East Franklinton Phase 2	-	-	6,032,340	-	-	-	6,032,340	WPCLF/OWDA
Woodward Avenue Sanitary Sewers	503,928	-	-	-	-	-	503,928	WPCLF/OWDA
Fairwood / Griggs Radio Replacement	51,500	-	-	-	-	-	51,500	Voted 2008 Debt-Sanitary Sewer
Franklin Main Interceptor Rehabilitation, Sec. 6	300,000	-	-	-	-	-	300,000	Voted 2008 Debt-Sanitary Sewer
Franklin Main Interceptor Rehabilitation, Sec. 6	2,000,000	-	-	-	-	-	2,000,000	WPCLF/OWDA
60-05 Portage Grove Area Assessment	2,000,000	-	-	-	-	-	2,000,000	WPCLF/OWDA
Big Walnut Outfall Rehabilitation	-	-	-	-	1,529,818	-	1,529,818	Voted 2016 Debt - Sanitary Sewer
Big Walnut Outfall Rehabilitation	-	-	-	-	15,298,178	-	15,298,178	WPCLF/OWDA
Lower Olentangy River Ecosystem Restoration, Fifth Ave. Dam Removal	70,000	50,000	-	-	-	-	120,000	Voted 2016 Debt - Sanitary Sewer
Lower Olentangy Tunnel - Phase 1	7,128,951	-	-	-	-	-	7,128,951	Voted 2008 Debt-Sanitary Sewer
Lower Olentangy Tunnel - Phase 1	-	-	8,741,816	-	-	-	8,741,816	Voted 2016 Debt - Sanitary Sewer
Lower Olentangy Tunnel - Phase 1	-	-	-	271,049,871	-	-	271,049,871	WPCLF/OWDA
Large Diameter Sewer Rehabilitation - Alum Creek Trunk South Section/Deshler Tunnel-Alum Creek Interceptor Sewer/Truro Sewers	-	530,450	-	-	-	-	530,450	Voted 2016 Debt - Sanitary Sewer
Large Diameter Sewer Rehabilitation - Alum Creek Trunk South Section/Deshler Tunnel-Alum Creek Interceptor Sewer/Truro Sewers	-	5,970,262	-	-	-	-	5,970,262	WPCLF/OWDA
Big Walnut Trunk Sewer - North	772,500	-	-	-	-	-	772,500	Voted 2008 Debt-Sanitary Sewer
Big Walnut Trunk Sewer - North	-	7,725,000	-	-	-	-	7,725,000	WPCLF/OWDA
OSIS Large Diameter Sewer Rehabilitation	1,200,000	-	-	-	-	-	1,200,000	Voted 2008 Debt-Sanitary Sewer
OSIS Large Diameter Sewer Rehabilitation	-	1,311,273	546,364	-	-	-	1,857,637	Voted 2016 Debt - Sanitary Sewer
OSIS Large Diameter Sewer Rehabilitation	-	-	-	5,000,000	-	-	5,000,000	WPCLF/OWDA
Center Large Diameter Rehabilitation	772,500	-	-	-	-	-	772,500	Voted 2008 Debt-Sanitary Sewer
Center Large Diameter Rehabilitation	5,000,000	-	-	-	-	-	5,000,000	WPCLF/OWDA
West Side Trunk Rehabilitation	300,000	100,000	750,000	-	-	-	1,150,000	Voted 2016 Debt - Sanitary Sewer
West Side Trunk Rehabilitation	-	-	5,000,000	-	-	-	5,000,000	WPCLF/OWDA
Large Diameter - Blacklick Creek Main Trunk	530,450	-	-	-	-	-	530,450	Voted 2016 Debt - Sanitary Sewer
Large Diameter - Blacklick Creek Main Trunk	-	5,304,500	-	-	-	-	5,304,500	WPCLF/OWDA
Large Diameter - Scioto Main Trunk	1,273,080	-	-	-	-	-	1,273,080	Voted 2008 Debt-Sanitary Sewer
Large Diameter - Scioto Main Trunk	176,790	-	819,546	-	-	-	996,336	Voted 2016 Debt - Sanitary Sewer
Large Diameter - Scioto Main Trunk	-	-	5,463,635	-	-	-	5,463,635	WPCLF/OWDA
Large Diameter Sewer Rehabilitation	-	-	1,391,129	-	-	-	1,391,129	Voted 2016 Debt - Sanitary Sewer
Near North & East Area Large Diameter Assessment	750,000	-	-	-	-	-	750,000	Voted 2008 Debt-Sanitary Sewer
Near North & East Area Large Diameter Assessment	-	5,000,000	-	-	-	-	5,000,000	WPCLF/OWDA
Alum Creek Trunk (Middle) Rehabilitation - Phase B	5,150,000	-	-	-	-	-	5,150,000	WPCLF/OWDA
Alum Creek Trunk (Middle) Rehabilitation - Phase C	3,500,000	-	-	-	-	-	3,500,000	WPCLF/OWDA
Brinfield Area Sanitary System Repair Project	1,339,000	-	-	-	-	-	1,339,000	WPCLF/OWDA
2018 General Construction Contract	1,755,000	-	-	-	-	-	1,755,000	Voted 2008 Debt-Sanitary Sewer
2019 General Construction Contract	-	1,755,000	-	-	-	-	1,755,000	Voted 2016 Debt - Sanitary Sewer
2020 General Construction Contract	-	-	1,755,000	-	-	-	1,755,000	Voted 2016 Debt - Sanitary Sewer
2021 General Construction Contract	-	-	-	1,755,000	-	-	1,755,000	Voted 2016 Debt - Sanitary Sewer
2022 General Construction Contract	-	-	-	-	1,755,000	-	1,755,000	Voted 2016 Debt - Sanitary Sewer
2023 General Construction Contract	-	-	-	-	-	1,755,000	1,755,000	Voted 2016 Debt - Sanitary Sewer
Williams Rd./Castle Rd. Sanitary Pump Station Control Valve Upgrade	3,713,150	-	-	-	-	-	3,713,150	WPCLF/OWDA
Third Avenue CSO Increased Capture and Green Infrastructure	3,294,572	-	-	-	-	-	3,294,572	WPCLF/OWDA
Compost Facility Leachate Basin	1,030,000	-	-	-	-	-	1,030,000	WPCLF/OWDA
Moler Street Overflow Intercepting Sewer	257,500	1,909,620	-	-	-	-	2,167,120	Voted 2016 Debt - Sanitary Sewer

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Moler Street Overflow Intercepting Sewer	-	12,730,800	-	-	-	-	12,730,800	WPCLF/OWDA
Third Ave Relief Sewer, Phase 3	901,765	-	-	-	-	-	901,765	Voted 2008 Debt-Sanitary Sewer
Third Ave Relief Sewer, Phase 3	3,182,700	-	-	-	-	-	3,182,700	WPCLF/OWDA
SMOC SCADA Modernization at Remote Sanitary Facilities	-	327,819	-	-	-	-	327,819	Voted 2016 Debt - Sanitary Sewer
SMOC SCADA Modernization at Remote Sanitary Facilities	-	-	810,367	-	-	-	810,367	WPCLF/OWDA
SMOC SCADA Communication Network Modernization	-	1,311,273	-	-	-	-	1,311,273	Voted 2016 Debt - Sanitary Sewer
SMOC SCADA Communication Network Modernization	-	-	3,939,280	-	-	-	3,939,280	WPCLF/OWDA
Inflow Redirection - Noble & 4th St	-	-	544,142	-	-	-	544,142	Voted 2016 Debt - Sanitary Sewer
Inflow Redirection - Markison	1,797,155	953,302	-	-	-	-	2,750,457	Voted 2016 Debt - Sanitary Sewer
Inflow Redirection - Markison	-	-	-	-	14,159,000	-	14,159,000	WPCLF/OWDA
General CA/CI	100,000	100,000	100,000	100,000	100,000	-	500,000	Voted 2016 Debt - Sanitary Sewer
New Weir Relief to LOT1 - 5th by Northwest Blueprint Area	-	-	-	13,380	103,363	-	116,743	Voted 2016 Debt - Sanitary Sewer
Bulkhead of Oxley Road Relief Pipe - 5th by Northwest Blueprint Area	-	-	-	-	102,572	-	102,572	Voted 2016 Debt - Sanitary Sewer
New Relief Pipe to LOT2 - Clintonville 2	-	366,808	194,573	-	-	-	561,381	Voted 2016 Debt - Sanitary Sewer
DSR 873 New Relief Sewer	-	-	-	14,577	-	-	14,577	Voted 2016 Debt - Sanitary Sewer
Remove Weir - Project ID 1 - North Linden 2	-	-	-	-	117,146	-	117,146	Voted 2016 Debt - Sanitary Sewer
Upsizing Sewer Pipes (Project ID 2) - Hilltop 2	-	-	-	88,265	-	-	88,265	Voted 2016 Debt - Sanitary Sewer
DSR 177 Closure - Miller Kelton Blueprint Area	-	-	-	110,422	-	-	110,422	Voted 2016 Debt - Sanitary Sewer
Flow Redirection - Plum Ridge	-	-	-	160,003	-	-	160,003	Voted 2016 Debt - Sanitary Sewer
Upsizing Sewer Pipes - Project ID 1 - Near South	145,429	-	77,144	-	1,145,779	-	1,368,352	Voted 2016 Debt - Sanitary Sewer
New Relief Pipe and Weir - Project ID 4a&4b - Near South	-	65,262	34,619	-	-	-	99,881	Voted 2016 Debt - Sanitary Sewer
DSR 147 Overflow Pipe Raise - 5th by Northwest	-	-	-	13,380	103,364	-	116,744	Voted 2016 Debt - Sanitary Sewer
DSR 109 Closure - 5th by Northwest Blueprint Area	-	-	-	-	117,147	-	117,147	Voted 2016 Debt - Sanitary Sewer
New Relief Pipe to the Orlentangy Scioto	-	1,517,067	-	804,728	-	-	2,321,795	Voted 2016 Debt - Sanitary Sewer
Remove Weir - Project ID 2 - North Linden 2	-	-	-	-	117,146	-	117,146	Voted 2016 Debt - Sanitary Sewer
Upsizing Sewer Pipes (Project ID 3) - Hilltop 2	-	-	-	583,808	-	-	583,808	Voted 2016 Debt - Sanitary Sewer
Upsizing Sewer Pipes Project ID 2 Near South	173,652	-	92,114	-	1,368,126	-	1,633,892	Voted 2016 Debt - Sanitary Sewer
DSR 148 Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	-	13,380	103,364	-	116,744	Voted 2016 Debt - Sanitary Sewer
DSR 111 Closure - 5th by Northwest Blueprint Area	-	-	-	-	117,146	-	117,146	Voted 2016 Debt - Sanitary Sewer
Remove Weir Project ID3 North Linden 2	-	-	-	-	117,147	-	117,147	Voted 2016 Debt - Sanitary Sewer
Upsizing Sewer Pipes Project ID 3 Near South	61,617	-	32,684	-	485,451	-	579,752	Voted 2016 Debt - Sanitary Sewer
DSR 149 Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	13,381	-	103,365	-	116,746	Voted 2016 Debt - Sanitary Sewer
DSR 146 Closure - 5th by Northwest Blueprint Area	-	-	-	-	117,147	-	117,147	Voted 2016 Debt - Sanitary Sewer
DSR Overflow Pipe Raise - 5th by Northwest Blueprint Area	-	-	-	13,381	103,365	-	116,746	Voted 2016 Debt - Sanitary Sewer
Flow Spit Reconfiguration - 5th by Northwest Blueprint Area	-	-	11,247	-	86,879	-	98,126	Voted 2016 Debt - Sanitary Sewer
Blueprint Clintonville Professional Construction Management Services	1,030,000	-	-	-	-	-	1,030,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Hudson / McGuffey	692,900	-	-	-	-	-	692,900	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Hudson / McGuffey	4,423,027	-	-	-	-	-	4,423,027	WPCLF/OWDA
Blueprint Linden - Oakland Park / Medina	450,000	-	-	-	-	-	450,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Oakland Park / Medina	3,000,000	-	-	-	-	-	3,000,000	WPCLF/OWDA
Blueprint Linden - Agler / Berrell	640,750	-	-	-	-	-	640,750	Voted 2008 Debt-Sanitary Sewer
Blueprint Linden - Agler / Berrell	3,500,000	-	-	-	-	-	3,500,000	WPCLF/OWDA
Blueprint Linden - Artane / Parkwood	4,120,000	-	-	-	-	-	4,120,000	WPCLF/OWDA
Blueprint Hilltop - Palmetto/Westgate	972,500	-	-	-	-	-	972,500	Voted 2008 Debt-Sanitary Sewer
Blueprint Hilltop - Palmetto/Westgate	7,682,000	-	-	-	-	-	7,682,000	WPCLF/OWDA
Blueprint Hilltop - Eureka/Fremont	200,000	-	-	-	-	-	200,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Hilltop - Eureka/Fremont	4,694,500	-	-	-	-	-	4,694,500	WPCLF/OWDA
Blueprint Miller Kelton - Newton/Bedford	833,297	-	-	-	-	-	833,297	Voted 2008 Debt-Sanitary Sewer
Blueprint Miller Kelton - Newton/Bedford	3,399,000	-	-	-	-	-	3,399,000	WPCLF/OWDA
Blueprint Miller Kelton - Kelton/Fairwood	688,602	-	-	-	-	-	688,602	Voted 2008 Debt-Sanitary Sewer
Blueprint Miller Kelton - Kelton/Fairwood	3,090,000	-	-	-	-	-	3,090,000	WPCLF/OWDA
Blueprint 2017 Clintonville 2	2,484,501	-	-	-	-	-	2,484,501	Voted 2008 Debt-Sanitary Sewer
Blueprint 2017 Clintonville 2	1,120,499	-	-	-	-	-	1,120,499	Voted 2016 Debt - Sanitary Sewer
Blueprint 5th Ave by Northwest - Northwest - Sunrise / Glenn	-	814,599	-	-	-	-	814,599	Voted 2016 Debt - Sanitary Sewer
Blueprint 5th Ave by Northwest - Northwest - Sunrise / Glenn	-	4,164,382	-	-	-	-	4,164,382	WPCLF/OWDA

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Blueprint 5th Ave by Northw est - Edgehill / Meadow	-	853,720	-	-	-	-	853,720	Voted 2016 Debt - Sanitary Sewer
Blueprint 5th Ave by Northw est - Edgehill / Meadow	-	3,151,425	-	-	-	-	3,151,425	WPCLF/OWDA
Blueprint Winthrop / Milton Area Integrated Solutions	558,685	-	-	-	-	-	558,685	Voted 2008 Debt-Sanitary Sewer
Blueprint Winthrop / Milton Area Integrated Solutions	-	742,630	-	-	4,298,314	-	5,040,944	Voted 2016 Debt - Sanitary Sewer
Blueprint Dorris / Weber Area Integrated Solutions	360,706	-	-	-	-	-	360,706	Voted 2008 Debt-Sanitary Sewer
Blueprint Dorris / Weber Area Integrated Solutions	-	218,546	-	-	-	-	218,546	Voted 2016 Debt - Sanitary Sewer
Blueprint Dorris / Weber Area Integrated Solutions	-	-	2,205,998	-	-	-	2,205,998	WPCLF/OWDA
Blueprint Fredonia / Piedmont Area Integrated Solutions	721,000	-	-	-	-	-	721,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Fredonia / Piedmont Area Integrated Solutions	-	381,924	672,028	-	-	-	1,053,952	Voted 2016 Debt - Sanitary Sewer
Blueprint Fredonia / Piedmont Area Integrated Solutions	-	-	4,480,181	-	-	-	4,480,181	WPCLF/OWDA
Blueprint Tulane / Findley Area Integrated Solutions	900,000	-	-	-	-	-	900,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Tulane / Findley Area Integrated Solutions	-	206,000	764,908	-	-	-	970,908	Voted 2016 Debt - Sanitary Sewer
Blueprint Tulane / Findley Area Integrated Solutions	-	-	6,556,362	-	-	-	6,556,362	WPCLF/OWDA
Blueprint Milford / Summit Area Integrated Solutions	329,600	-	-	-	-	-	329,600	Voted 2008 Debt-Sanitary Sewer
Blueprint Milford / Summit Area Integrated Solutions	-	237,180	295,036	-	-	-	532,216	Voted 2016 Debt - Sanitary Sewer
Blueprint Milford / Summit Area Integrated Solutions	-	-	1,986,909	-	-	-	1,986,909	WPCLF/OWDA
Blueprint Olde Beechw old Area - Integrated Solutions	25,000	180,000	-	-	-	-	205,000	Voted 2016 Debt - Sanitary Sewer
Blueprint Olde Beechw old Area - Integrated Solutions	-	1,200,000	-	-	-	-	1,200,000	WPCLF/OWDA
Green Infrastructure - Clintonville 2 Blueprint Area	3,919,150	-	-	3,802,594	25,082,129	-	32,803,873	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - North Linden 2 Blueprint Area	-	-	-	4,015,295	-	-	4,015,295	Voted 2016 Debt - Sanitary Sewer
Blueprint Hilltop 4 - Highland / Harris	238,702	1,013,545	-	-	-	-	1,252,247	Voted 2016 Debt - Sanitary Sewer
Blueprint Hilltop 4 - Highland / Harris	-	5,300,000	-	-	-	-	5,300,000	WPCLF/OWDA
Green Infrastructure - Hilltop 2 Blueprint Area	-	-	4,181,469	-	1,871,789	-	6,053,258	Voted 2016 Debt - Sanitary Sewer
Blueprint W. Franklinton - Yale / Edw in	-	741,085	-	-	-	-	741,085	Voted 2016 Debt - Sanitary Sewer
Blueprint W. Franklinton - Yale / Edw in	-	3,182,700	-	-	-	-	3,182,700	WPCLF/OWDA
Blueprint W. Franklinton - Green / Glenw ood	-	2,001,123	-	-	-	-	2,001,123	Voted 2016 Debt - Sanitary Sewer
Blueprint W. Franklinton - Green / Glenw ood	-	5,245,090	-	-	-	-	5,245,090	WPCLF/OWDA
West Franklinton Sewer Improvements	715,960	-	-	-	-	-	715,960	Voted 2008 Debt-Sanitary Sewer
Green Infrastructure - James Livingston 5 Blueprint Area	-	3,232,922	-	1,172,126	-	-	4,405,048	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - James Livingston 5 Blueprint Area	-	-	-	-	-	16,902,048	16,902,048	WPCLF/OWDA
Green Infrastructure - James Livingston 3 Blueprint Area	-	-	-	-	3,188,641	-	3,188,641	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - Plum Ridge Blueprint Area	-	437,007	-	200,821	-	-	637,828	Voted 2016 Debt - Sanitary Sewer
Green Infrastructure - Plum Ridge Blueprint Area	-	-	-	-	2,895,839	-	2,895,839	WPCLF/OWDA
Blueprint Near South - Morrill/Ann Area Integrated Solutions	-	741,718	218,545	-	-	-	960,263	Voted 2016 Debt - Sanitary Sewer
Blueprint Near South - Champion/Roberts Area Integrated Solutions	-	741,718	218,545	-	-	-	960,263	Voted 2016 Debt - Sanitary Sewer
Roof Redirection - Clintonville 1 Blueprint Area	6,270,343	-	-	-	-	-	6,270,343	WPCLF/OWDA
Roof Redirection - Clintonville 2 Blueprint Area	-	-	-	-	9,101,067	-	9,101,067	WPCLF/OWDA
Lateral Lining - 5th by Northw est Blueprint Area	-	-	7,225,530	7,442,296	-	-	14,667,826	WPCLF/OWDA
Lateral Lining - Fifth by Northw est Blueprint Area	1,166,990	1,202,000	-	-	-	-	2,368,990	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - Fifth by Northw est Blueprint Area	15,190,270	7,822,986	-	-	-	-	23,013,256	WPCLF/OWDA
Lateral Lining - Clintonville 3 Blueprint area	-	-	-	23,724,138	24,435,862	-	48,160,000	WPCLF/OWDA
Lateral Lining - Clintonville 2 Blueprint area	-	-	-	-	522,672	-	522,672	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - Clintonville 2 Blueprint area	-	-	-	-	-	15,680,153	15,680,153	WPCLF/OWDA
Lateral Lining - Hilltop 1 Blueprint Area	-	17,947,722	18,486,154	-	-	-	36,433,876	WPCLF/OWDA
Lateral Lining - West Kelinton Blueprint Area	-	-	-	10,392,046	10,703,807	-	21,095,853	WPCLF/OWDA
Lateral Lining - Miller Kelton Blueprint Area	-	-	6,509,016	6,704,287	-	-	13,213,303	WPCLF/OWDA
Lateral Lining - Near South Blueprint area	-	-	-	308,370	317,621	-	625,991	Voted 2016 Debt - Sanitary Sewer
Lateral Lining - Near South Blueprint area	-	-	-	-	9,521,099	9,528,632	19,049,731	WPCLF/OWDA
Blueprint CIPP (Mainline) Lining	-	255,734	263,406	-	-	-	1,136,454	Voted 2016 Debt - Sanitary Sewer
Blueprint Clintonville 3 Area - Mainline Lining	2,000,000	-	-	-	-	-	2,000,000	Voted 2008 Debt-Sanitary Sewer
Blueprint Clintonville 3 Area - Mainline Lining	10,000,000	-	-	-	-	-	10,000,000	WPCLF/OWDA
Mainline lining - Clintonville 2 Blueprint Area	-	-	3,257,496	3,355,221	-	-	6,612,717	WPCLF/OWDA
Mainline lining - North Linden 2 Blueprint Area	-	-	-	-	-	9,170,490	9,170,490	WPCLF/OWDA
Mainline lining - Hilltop 2 Blueprint Area	-	-	-	-	9,115,950	9,390,458	18,506,408	WPCLF/OWDA
Mainline lining - James Livingston 5 Blueprint Area	-	-	-	264,428	264,428	-	528,856	Voted 2016 Debt - Sanitary Sewer

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Mainline lining - James Livingston 5 Blueprint Area	-	-	-	7,701,801	7,932,855	-	15,634,656	WPCLF/OWDA
Mainline lining - Plum Ridge Blueprint Area	-	-	-	44,228	44,228	-	88,456	Voted 2016 Debt - Sanitary Sewer
Mainline lining - Plum Ridge Blueprint Area	-	-	-	1,288,200	1,326,845	-	2,615,045	WPCLF/OWDA
Mainline lining - Near South Blueprint Area	-	255,733	263,405	-	-	-	519,138	Voted 2016 Debt - Sanitary Sewer
Mainline lining - Near South Blueprint Area	-	7,672,008	7,902,168	-	-	-	15,574,176	WPCLF/OWDA
Volunteer Sump Pump Program - Clintonville 3 Blueprint Area	2,456,480	2,560,174	2,606,079	2,684,262	-	-	10,306,995	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Clintonville 2 Blueprint Area	-	-	3,354,022	3,454,643	3,558,282	-	10,366,947	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Hilltop 1 Blueprint Area	3,884,074	2,029,860	2,090,755	-	-	-	8,004,689	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Hilltop 4 Blueprint Area	734,225	756,252	778,940	-	-	-	2,269,417	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Hilltop 2 Blueprint Area	-	-	-	-	-	1,736,188	1,736,188	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - West Franklinton Blueprint Area	1,091,402	1,124,144	1,157,868	-	-	-	3,373,414	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - James Livingston 5 Blueprint Area	-	-	-	1,695,271	1,746,129	-	3,441,400	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Miller Kelton Blueprint Area	1,367,593	714,719	736,160	-	-	-	2,818,472	Voted 2016 Debt - Sanitary Sewer
Volunteer Sump Pump Program - Near South Blueprint Area	-	988,899	1,018,566	1,049,123	1,080,596	-	4,137,184	Voted 2016 Debt - Sanitary Sewer
Scioto Peninsula Improvements	-	-	1,159,275	-	-	-	1,159,275	Voted 2016 Debt - Sanitary Sewer
Scioto Peninsula Improvements	-	-	1,351,181	-	-	-	1,351,181	WPCLF/OWDA
Scioto Main Sanitary Pump Stations	665,637	-	-	-	-	-	665,637	Voted 2008 Debt-Sanitary Sewer
Scioto Main Sanitary Pump Stations	-	-	14,490,926	-	-	-	14,490,926	WPCLF/OWDA
Scioto Main Sanitary Trunk Sewer Rehabilitation	109,272	819,545	-	-	-	-	928,817	Voted 2016 Debt - Sanitary Sewer
Scioto Main Sanitary Trunk Sewer Rehabilitation	-	-	8,694,556	-	-	-	8,694,556	WPCLF/OWDA
Meeklynn Drive Area Sanitary Sewer	309,000	-	-	-	-	-	309,000	Voted 2008 Debt-Sanitary Sewer
Meeklynn Drive Area Sanitary Sewer	2,060,000	-	-	-	-	-	2,060,000	WPCLF/OWDA
HSTS Elimination Program	-	-	-	200,000	500,000	500,000	1,200,000	Voted 2016 Debt - Sanitary Sewer
Williams / Behm HSTS Elimination Project	100,000	375,000	-	-	-	-	475,000	Voted 2016 Debt - Sanitary Sewer
Williams / Behm HSTS Elimination Project	-	-	2,500,000	-	-	-	2,500,000	WPCLF/OWDA
Dyer / Lazar HSTS Elimination Project	-	-	100,000	405,000	-	-	505,000	Voted 2016 Debt - Sanitary Sewer
Dyer / Lazar HSTS Elimination Project	-	-	-	2,700,000	-	-	2,700,000	WPCLF/OWDA
Morse / Cleveland HSTS Elimination Project	55,000	-	50,000	488,750	-	-	593,750	Voted 2016 Debt - Sanitary Sewer
Community Park / Maple Canyon HSTS Elimination Project	55,000	100,000	-	50,000	525,000	931,500	1,661,500	Voted 2016 Debt - Sanitary Sewer
Subtotal - SANITARY SEWERS	\$ 242,735,558	\$ 195,969,893	\$ 263,171,430	\$ 412,001,403	\$ 177,697,460	\$ 86,315,430	\$ 1,377,891,174	
ELECTRICITY								
60 UIRF Funded Street Lighting Projects (Urban Infrastructure Recovery Fund)	-	-	-	-	505,000	505,000	1,010,000	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	330,580	-	-	-	-	-	330,580	Voted 2013 Debt - Electricity
Parsons Avenue Underpass Lighting - 2125	32,492	-	-	-	-	-	32,492	Voted 2013 Debt - Electricity
Parsons Avenue Underpass Lighting - 2125	65,979	-	-	-	-	-	65,979	Voted 2016 Debt - Electricity
Mlo Grogan Decorative Street Lighting - 2165	229,372	-	-	-	-	-	229,372	Voted 2013 Debt - Electricity
Cleveland Avenue Decorative Street Lighting - 1939	520,000	-	-	-	-	-	520,000	Voted 2016 Debt - Electricity
North Central Standard Lighting - 1938	217,485	-	-	-	-	-	217,485	Voted 2013 Debt - Electricity
East Main Street Decorative Lighting - 1933	766,500	-	-	-	-	-	766,500	Voted 2013 Debt - Electricity
East Fifth Avenue Decorative Street Lighting	-	129,762	-	-	-	-	129,762	Voted 2016 Debt - Electricity
UIRF Cleveland Ave. - Chittenden to Hudson	-	1,176,088	-	-	-	-	1,176,088	Voted 2016 Debt - Electricity
DOP Streetlight Program	-	-	-	579,637	597,027	-	1,176,664	Electricity Enterprise (Unvoted)
DOP Streetlight Program	-	-	562,755	-	-	-	562,755	Voted 2016 Debt - Electricity
Morse Rd. (Ph. III & IV) System Improvements	350,000	4,228,315	-	-	-	-	4,578,315	Voted 2016 Debt - Electricity
Substation 69 & 138KV OCB Replacement to SF6 2018	185,000	-	-	-	-	-	185,000	Voted 2016 Debt - Electricity
Substation 69 & 138KV OCB Replacement to SF6 2019	-	191,000	-	-	-	-	191,000	Voted 2016 Debt - Electricity
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	Electricity Enterprise (Unvoted)
Substation 69 & 138KV OCB Replacement to SF6 2022	-	-	-	-	220,000	-	220,000	Electricity Enterprise (Unvoted)
AMI Metering	5,000,000	-	-	-	-	-	5,000,000	Voted 2016 Debt - Electricity
17th Avenue Circuit Upgrade	1,412,500	-	-	-	-	-	1,412,500	Voted 2016 Debt - Electricity
Dublin Avenue Substation Security Fence	658,571	-	-	-	-	-	658,571	Voted 2013 Debt - Electricity
Conversion to 3 Wire	-	-	-	-	300,000	-	300,000	Electricity Enterprise (Unvoted)

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)									
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source	
Conversion to 3 Wire	300,000	300,000	300,000	300,000	-	-	1,200,000	Voted 2016 Debt - Electricity	
Forest Hills Street Lighting	-	-	-	-	430,650	-	430,650	Electricity Enterprise (Unvoted)	
Valleyview Street Lighting	443,705	-	-	-	-	-	443,705	Voted 2016 Debt - Electricity	
Transformer Conversions	2,015,710	-	-	-	-	-	2,015,710	Voted 2016 Debt - Electricity	
Jackson Pke Substation DT-1E Transformer Replacement	-	-	-	-	2,318,549	-	2,318,549	Electricity Enterprise (Unvoted)	
7200V Circuit Upgrade & Reconductoring Phase I	228,093	-	1,740,222	-	-	-	1,968,315	Voted 2016 Debt - Electricity	
7200V Circuit Upgrade & Reconductoring Phase II	-	-	-	804,228	-	-	804,228	Electricity Enterprise (Unvoted)	
7200V Circuit Upgrade & Reconductoring Phase II	212,180	-	-	1,070,319	-	-	1,282,499	Voted 2016 Debt - Electricity	
Convert Circuit 7220 to 14.4KV	-	-	-	-	2,317,990	-	2,317,990	Electricity Enterprise (Unvoted)	
Convert Circuit 7220 to 14.4KV	-	-	247,612	-	-	-	247,612	Voted 2016 Debt - Electricity	
Convert Circuit 7221 to 14.4KV	-	-	-	-	310,454	-	310,454	Electricity Enterprise (Unvoted)	
Convert Circuit 7222 to 14.4KV	-	-	-	-	-	1,406,976	1,406,976	Electricity Enterprise (Unvoted)	
Convert Circuit 7222 to 14.4KV	-	-	146,317	-	-	-	146,317	Voted 2016 Debt - Electricity	
Convert Circuit 7223 to 14.4KV	-	-	-	-	262,691	-	262,691	Electricity Enterprise (Unvoted)	
Circuit Upgrades (4th to Hudson/Arcadia)	-	-	-	75,000	-	-	75,000	Voted 2016 Debt - Electricity	
Circuit Upgrades (4th to Chittenden/Hudson) Circuits 7221 & 7223	833,254	-	-	-	-	-	833,254	Voted 2016 Debt - Electricity	
Oil Switch Replacement Program 2018	123,600	-	-	-	-	-	123,600	Voted 2016 Debt - Electricity	
Oil Switch Replacement Program 2019	-	127,308	-	-	-	-	127,308	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)	
Twin Rivers - Vine Street Lighting	-	-	-	-	-	245,975	245,975	Electricity Enterprise (Unvoted)	
Twin Rivers - Vine Street Lighting	-	-	-	46,371	-	-	46,371	Voted 2016 Debt - Electricity	
Hall Rd Street Lighting	-	946,277	-	-	-	-	946,277	Voted 2016 Debt - Electricity	
Freeway & Kingshill Street Lighting	-	81,837	-	452,022	-	-	533,859	Voted 2016 Debt - Electricity	
Fitzroy & Morse Rd Street Lighting	-	116,800	-	537,280	-	-	654,080	Voted 2016 Debt - Electricity	
Cherry Creek & Cherryhurst Street Lighting	-	-	-	-	-	316,693	316,693	Electricity Enterprise (Unvoted)	
Cherry Creek & Cherryhurst Street Lighting	-	-	-	56,275	-	-	56,275	Voted 2016 Debt - Electricity	
Broad Street & Noe Bixby Street Lighting	54,636	-	289,819	-	-	-	344,455	Voted 2016 Debt - Electricity	
Sancus & Whitewater Street Lighting	-	70,000	-	362,000	-	-	432,000	Voted 2016 Debt - Electricity	
Jasonway & Knightsbridge Street Lighting	-	65,563	-	361,693	-	-	427,256	Voted 2016 Debt - Electricity	
Capitol & Fulton Street Lighting	-	-	-	-	-	388,947	388,947	Electricity Enterprise (Unvoted)	
Capitol & Fulton Street Lighting	-	-	-	57,963	-	-	57,963	Voted 2016 Debt - Electricity	
Brookfield & Tupsfield Street Lighting	-	96,000	445,000	-	-	-	541,000	Voted 2016 Debt - Electricity	
Sawmill & Summitview Street Lighting	-	131,790	-	685,310	-	-	817,100	Voted 2016 Debt - Electricity	
Riverview & Stinchcomb Street Lighting	-	54,636	-	304,484	-	-	359,120	Voted 2016 Debt - Electricity	
Morningstar & North Forty Street Lighting	70,443	-	388,615	-	-	-	459,058	Voted 2016 Debt - Electricity	
Cleveland Avenue Street Lighting	44,983	-	255,597	-	-	-	300,580	Voted 2016 Debt - Electricity	
Westerville Road Street Lighting	32,200	-	145,600	-	-	-	177,800	Voted 2016 Debt - Electricity	
Smoky Row Street Lighting	56,015	309,019	-	-	-	-	365,034	Voted 2016 Debt - Electricity	
General Engineering Services - Power	159,135	-	-	-	-	-	159,135	Voted 2016 Debt - Electricity	
GENERAL ENGINEERING CONTRACT 2019 - 2022	-	109,272	112,550	115,927	-	-	337,749	Voted 2016 Debt - Electricity	
GENERAL ENGINEERING CONTRACT 2022-2025	-	-	-	-	119,405	122,987	242,392	Electricity Enterprise (Unvoted)	
General CA/CI - Power	53,045	-	-	-	-	-	53,045	Voted 2016 Debt - Electricity	
GENERAL CA/CI - POWER 2019-2022	-	54,636	56,275	57,964	-	-	168,875	Voted 2016 Debt - Electricity	
GENERAL CA/CI - POWER 2022-2025	-	-	-	-	59,702	61,494	121,196	Electricity Enterprise (Unvoted)	
Circuit 237 Street Lighting Improvement Upgrade	-	196,964	-	1,215,246	-	-	1,412,210	Voted 2016 Debt - Electricity	
Circuit 30 Street Lighting Improvement Upgrade	200,789	-	1,228,250	-	-	-	1,429,039	Voted 2016 Debt - Electricity	
Subtotal - ELECTRICITY	\$ 14,596,267	\$ 8,385,267	\$ 6,740,612	\$ 7,919,719	\$ 7,561,468	\$ 3,048,072	\$ 48,251,405		
WATER									
Hoover Reservoir Erosion Control	200,000	-	1,700,000	-	-	-	1,900,000	Voted 2013 Debt - Water	
Miscellaneous Water Facilities	200,000	100,000	100,000	30,000	-	-	430,000	Voted 2013 Debt - Water	
Miscellaneous Water Facilities	-	-	-	70,000	100,000	-	170,000	Voted 2016 Debt - Water	
Miscellaneous Water Facilities	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)	

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Indianola Facility Improvements	-	1,000,000	2,500,000	-	-	-	3,500,000	Voted 2013 Debt - Water
Indianola Facility Improvements	-	-	-	30,000,000	-	-	30,000,000	Voted 2016 Debt - Water
Rinehart Public Utilities Complex Exterior Site Improvements	6,325,000	-	-	-	-	-	6,325,000	Voted 2013 Debt - Water
Distribution Maintenance Area Imp's	400,000	-	-	-	-	-	400,000	Voted 2013 Debt - Water
910 Dublin Road Garage Roof Replacement	-	1,500,000	-	-	-	-	1,500,000	Voted 2013 Debt - Water
Water Main Rehabilitation	2,000,000	-	-	-	-	-	2,000,000	Voted 2013 Debt - Water
Water Main Rehabilitation	-	4,500,000	6,000,000	24,000,000	33,000,000	33,000,000	100,500,000	WSRLA Loan
Main St. & James Rd. W.L. Imp's	1,600,000	-	-	-	-	-	1,600,000	Voted 2013 Debt - Water
Arcadia Ave Area WL Imp's	3,000,000	-	-	-	-	-	3,000,000	WSRLA Loan
South Broadleigh Road Area WL Imp's	575,000	-	-	-	-	-	575,000	Voted 2013 Debt - Water
South Broadleigh Road Area WL Imp's	4,300,000	-	-	-	-	-	4,300,000	WSRLA Loan
Noe-Bixby Rd. Area WL Imp's (fka #39)	450,000	-	-	-	-	-	450,000	Voted 2013 Debt - Water
Noe-Bixby Rd. Area WL Imp's (fka #39)	4,600,000	-	-	-	-	-	4,600,000	WSRLA Loan
Sale Rd. Area WL Imp's (fka #40)	3,500,000	-	-	-	-	-	3,500,000	WSRLA Loan
Stephen Dr. Area WL Imp's (fka # 41)	3,900,000	-	-	-	-	-	3,900,000	WSRLA Loan
Union Ave. Area WL Imp's (fka #42)	375,000	-	-	-	-	-	375,000	Voted 2013 Debt - Water
Union Ave. Area WL Imp's (fka #42)	3,500,000	-	-	-	-	-	3,500,000	WSRLA Loan
Dundee Ave Area W L Imp's (fka #43)	400,000	-	-	-	-	-	400,000	Voted 2013 Debt - Water
Dundee Ave Area W L Imp's (fka #43)	3,100,000	-	-	-	-	-	3,100,000	WSRLA Loan
Livingston Avenue Area 12" WL Imp's	50,000	-	-	-	-	-	50,000	Voted 2013 Debt - Water
Dresden St. Area WL Imp's	-	375,000	-	-	-	-	375,000	Voted 2013 Debt - Water
Dresden St. Area WL Imp's	-	3,400,000	-	-	-	-	3,400,000	WSRLA Loan
Harrington Ct. Area WL Imp's	300,000	-	-	-	-	-	300,000	Voted 2013 Debt - Water
Harrington Ct. Area WL Imp's	-	2,700,000	-	-	-	-	2,700,000	WSRLA Loan
East Gates Street Area Water Line Imp's	-	300,000	-	-	-	-	300,000	Voted 2013 Debt - Water
East Gates Street Area Water Line Imp's	-	2,700,000	-	-	-	-	2,700,000	WSRLA Loan
Thomas Lane Area Water Line Imp's	-	2,700,000	-	-	-	-	2,700,000	WSRLA Loan
Valleyview Drive Area Water Line Imp's	-	375,000	-	-	-	-	375,000	Voted 2013 Debt - Water
Valleyview Drive Area Water Line Imp's	-	3,500,000	-	-	-	-	3,500,000	WSRLA Loan
Project No. 50 W.M. Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Project No. 50 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 51 W.M. Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Project No. 51 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 52 W.M. Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Project No. 52 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 53 W.M. Replacement	250,000	-	300,000	-	-	-	550,000	Voted 2013 Debt - Water
Project No. 53 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 54 W.M. Replacement	250,000	-	300,000	-	-	-	550,000	Voted 2013 Debt - Water
Project No. 54 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 55 W.M. Replacement	250,000	-	300,000	-	-	-	550,000	Voted 2013 Debt - Water
Project No. 55 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 56 W.M. Replacement	250,000	-	300,000	-	-	-	550,000	Voted 2013 Debt - Water
Project No. 56 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 57 W.M. Replacement	250,000	-	300,000	-	-	-	550,000	Voted 2013 Debt - Water
Project No. 57 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 58 W.M. Replacement	250,000	-	300,000	-	-	-	550,000	Voted 2013 Debt - Water
Project No. 58 W.M. Replacement	-	-	2,700,000	-	-	-	2,700,000	WSRLA Loan
Project No. 59 W.M. Replacement	250,000	-	-	-	-	-	250,000	Voted 2013 Debt - Water
Project No. 59 W.M. Replacement	-	-	-	300,000	-	-	300,000	Voted 2016 Debt - Water
Project No. 59 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 60 W.M. Replacement	250,000	-	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 60 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Project No. 61 W.M. Replacement	250,000	-	-	300,000	-	-	550,000	Voted 2013 Debt - Water
Project No. 61 W.M. Replacement	-	-	-	2,700,000	-	-	2,700,000	WSRLA Loan
Livingston Ave Phase B.W.L. Imp's	-	100,000	-	-	-	-	100,000	Voted 2013 Debt - Water

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Transite Pipe Replacement	-	-	300,000	-	-	-	300,000	Voted 2013 Debt - Water
Transite Pipe Replacement	1,225,000	-	2,000,000	-	-	-	3,225,000	WSRLA Loan
Tow n Street WM Imp's	250,000	-	-	-	-	-	250,000	Voted 2013 Debt - Water
Tow n Street WM Imp's	2,500,000	-	-	-	-	-	2,500,000	WSRLA Loan
E. Franklinton WL Imp's (2017) - Constr. Phase 1	-	1,000,000	-	-	-	-	1,000,000	WSRLA Loan
E. Franklinton WL Imp's (2017) - Constr. Phase 2	-	-	3,000,000	-	-	-	3,000,000	WSRLA Loan
Oakland Park / Medina WL Imp's	150,000	-	-	-	-	-	150,000	Voted 2013 Debt - Water
Oakland Park / Medina WL Imp's	1,000,000	-	-	-	-	-	1,000,000	WSRLA Loan
Sunrise Glenn WL Imp's	-	500,000	-	-	-	-	500,000	Voted 2013 Debt - Water
Central College Road 16-Inch Waterline Extension	100,000	-	-	-	-	-	100,000	Voted 2013 Debt - Water
O'Shaughnessy Hydroelectric - FERC	200,000	-	-	-	-	-	200,000	Voted 2013 Debt - Water
O'Shaughnessy Dam FERC Independent Consultant Review 2020	-	250,000	350,000	-	-	-	600,000	Voted 2013 Debt - Water
DRWP Miscellaneous Improvements	100,000	100,000	100,000	-	-	-	300,000	Voted 2013 Debt - Water
DRWP Miscellaneous Improvements	-	-	-	100,000	100,000	-	200,000	Voted 2016 Debt - Water
DRWP Miscellaneous Improvements	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
DRWP Misc. Imp's - Exterior Door and Window Replacement	-	-	1,500,000	-	-	-	1,500,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Educational Signage & Displays	-	150,000	-	-	-	-	150,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Basin Clarifier Rehab	-	600,000	-	-	-	-	600,000	Voted 2013 Debt - Water
DRWP Misc. Imp's - Basin Clarifier Rehab	-	6,000,000	-	-	-	-	6,000,000	WSRLA Loan
HCWP Misc. Improvements	100,000	100,000	100,000	-	-	-	300,000	Voted 2013 Debt - Water
HCWP Misc. Improvements	-	-	-	100,000	100,000	-	200,000	Voted 2016 Debt - Water
HCWP Misc. Improvements	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
HCWP Misc. Improvements - HCWP Clearwell Actuator Replacement	-	-	400,000	-	-	-	400,000	WSRLA Loan
HCWP Misc Imp's - Raw Water Screen Replacement	-	-	450,000	350,000	-	-	800,000	Voted 2013 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 2013 Debt - Water
HCWP Misc Imp's - HSP Monitoring Imp's	-	150,000	-	-	-	-	150,000	Voted 2013 Debt - Water
HCWP Misc. Improvements - Misc. Concrete Improvements	-	-	-	-	-	300,000	300,000	Water Enterprise (Unvoted)
HCWP Misc. Improvements - Plant Roadway Improvements	-	-	-	-	-	600,000	600,000	Water Enterprise (Unvoted)
Distribution Imp's - 2019 Water Audit	-	500,000	-	-	-	-	500,000	Voted 2013 Debt - Water
New Technologies in Leak Detection	100,000	100,000	100,000	-	-	-	300,000	Voted 2013 Debt - Water
New Technologies in Leak Detection	-	-	-	100,000	100,000	-	200,000	Voted 2016 Debt - Water
New Technologies in Leak Detection	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
PAWP Facility Misc. Improvements	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2013 Debt - Water
PAWP Facility Misc. Improvements	-	-	-	-	100,000	-	100,000	Voted 2016 Debt - Water
PAWP Facility Misc. Improvements	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
PAWP Misc. Imp's - Lime Slaker and Soda Ash Feeder Replacement	500,000	700,000	-	-	-	-	1,200,000	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	-	-	-	2,850,000	-	-	2,850,000	Voted 2016 Debt - Water
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	Voted 2013 Debt - Water
PAWP Misc. Imp's - Roof Renovations - Part 1	-	-	800,000	-	-	-	800,000	Voted 2013 Debt - Water
PAWP Misc. Imp's - Roof Renovations - Part 2	-	-	-	-	800,000	-	800,000	Voted 2016 Debt - Water
McKinley Avenue Quarry Misc. Improvements 2017	-	1,100,000	-	-	-	-	1,100,000	Voted 2013 Debt - Water
Automatic Meter Reading	1,000,000	1,000,000	1,000,000	1,000,000	-	-	4,000,000	Voted 2013 Debt - Water
Automatic Meter Reading	-	-	-	-	1,000,000	-	1,000,000	Voted 2016 Debt - Water
Automatic Meter Reading	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	-	125,000,000	WSRLA Loan
South Wellfield Expansion - RWL Pickaway Co.	-	-	-	800,000	-	-	800,000	Voted 2013 Debt - Water
South Wellfield Expansion - RWL Pickaway Co.	-	-	-	-	-	12,000,000	12,000,000	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	-	-	-	-	-	18,400,000	18,400,000	Water Enterprise (Unvoted)
Watershed Road Improvements	-	410,000	-	-	-	-	410,000	Voted 2013 Debt - Water
HCWP Basin Concrete Rehab.	1,000,000	-	-	-	-	-	1,000,000	Voted 2013 Debt - Water
HCWP Basin Concrete Rehab.	-	10,800,000	-	-	-	-	10,800,000	WSRLA Loan

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
HCWP A & B Raw & Fin. Water	200,000	200,000	-	-	-	-	400,000	Voted 2013 Debt - Water
Water Meter Renewal	2,250,000	2,250,000	2,250,000	-	-	-	6,750,000	Voted 2013 Debt - Water
Water Meter Renewal	-	-	-	2,250,000	2,250,000	-	4,500,000	Voted 2016 Debt - Water
Water Meter Renewal	-	-	-	-	-	2,250,000	2,250,000	Water Enterprise (Unvoted)
Valve Renewal Program	-	2,300,000	-	-	-	-	2,300,000	Voted 2013 Debt - Water
Valve Renewal Program	-	-	-	2,300,000	-	-	2,300,000	Voted 2016 Debt - Water
Valve Renewal Program	-	-	-	-	-	2,500,000	2,500,000	Water Enterprise (Unvoted)
Watershed Misc. Improv. Facilities	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2013 Debt - Water
Watershed Misc. Improv. Facilities	-	-	-	-	100,000	-	100,000	Voted 2016 Debt - Water
Watershed Misc. Improv. Facilities	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
Watershed Misc. Imp's - Griggs Boat Launch Imp's	550,000	-	625,000	-	-	-	1,175,000	Voted 2013 Debt - Water
Griggs Dam - Spillway, Abutment and Scour Mitigation Imp's	-	-	425,000	400,000	-	-	825,000	Voted 2013 Debt - Water
Griggs Dam - Spillway, Abutment and Scour Mitigation Imp's	-	-	-	-	2,300,000	-	2,300,000	Voted 2016 Debt - Water
Griggs Dam Stilling Basin	-	-	-	-	600,000	-	600,000	Voted 2016 Debt - Water
Hoover Dam Imp's - Part 1	650,000	10,000,000	-	-	-	-	10,650,000	Voted 2013 Debt - Water
Hoover Dam Imp's - Part 2	-	-	-	500,000	-	-	500,000	Voted 2013 Debt - Water
Hoover Dam Imp's - Part 2	-	-	-	-	5,500,000	-	5,500,000	Voted 2016 Debt - Water
PAWP Sludge Removal - Land Acquisition	4,000,000	-	-	-	-	-	4,000,000	Voted 2013 Debt - Water
Watershed Protection Easements	100,000	100,000	100,000	100,000	-	-	400,000	Voted 2013 Debt - Water
Watershed Protection Easements	-	-	-	-	100,000	-	100,000	Voted 2016 Debt - Water
Watershed Protection Easements	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
O'Shaughnessy Hydroelectric Imps	13,300,000	-	-	-	-	-	13,300,000	Voted 2013 Debt - Water
Gen'l Engin. Svcs - Supply Group	-	-	800,000	800,000	-	-	1,600,000	Voted 2013 Debt - Water
Gen'l Engin. Svcs - Supply Group	-	-	-	-	800,000	-	800,000	Voted 2016 Debt - Water
Gen'l Eng Svcs - Supply Group 2018A	400,000	400,000	400,000	-	-	-	1,200,000	Voted 2013 Debt - Water
Gen'l Eng Svcs - Supply Group 2018B	400,000	400,000	400,000	-	-	-	1,200,000	Voted 2013 Debt - Water
Mound District Booster Station 20" Discharge Line	3,000,000	-	-	-	-	-	3,000,000	WSRLA Loan
O'Shaughnessy Gatehouse Misc. Imp's	-	-	1,000,000	-	-	-	1,000,000	Voted 2013 Debt - Water
O'Shaughnessy Dam - 2017 Spillway Erosion Rehabilitation	950,000	-	-	-	-	-	950,000	Voted 2013 Debt - Water
Misc. Booster Station and Water Tank Imp's	750,000	750,000	1,000,000	1,000,000	-	-	3,500,000	Voted 2013 Debt - Water
Misc. Booster Station and Water Tank Imp's	-	-	-	-	1,000,000	-	1,000,000	Voted 2016 Debt - Water
Misc. Booster Station and Water Tank Imp's	-	-	-	-	-	1,000,000	1,000,000	Water Enterprise (Unvoted)
Water Storage Tank Painting	1,500,000	1,250,000	2,000,000	-	-	-	4,750,000	Voted 2013 Debt - Water
Water Storage Tank Painting	-	-	-	2,500,000	2,500,000	-	5,000,000	Voted 2016 Debt - Water
Water Storage Tank Painting	-	-	-	-	-	1,500,000	1,500,000	Water Enterprise (Unvoted)
Security Enhancements - 910 Dublin Road	-	2,600,000	-	-	-	-	2,600,000	Voted 2013 Debt - Water
Security Enhancements - HCWP	-	-	-	5,000,000	-	-	5,000,000	Voted 2016 Debt - Water
Security Enhancements - DRWP	-	-	-	-	5,000,000	-	5,000,000	Voted 2016 Debt - Water
Security Enhancements - PAWP	-	-	-	-	-	5,000,000	5,000,000	Water Enterprise (Unvoted)
HCWP Hypochlorite Disinfection Improvements	-	-	1,200,000	-	-	-	1,200,000	Voted 2013 Debt - Water
HCWP Hypochlorite Disinfection Improvements	-	-	13,200,000	-	-	-	13,200,000	WSRLA Loan
PAWP Hypochlorite Disinfection Improvements	-	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	-	2,500,000	-	-	-	-	2,500,000	Voted 2013 Debt - Water
HCWP & DRWP Coating Projects	250,000	-	1,800,000	-	-	-	2,050,000	Voted 2013 Debt - Water
Dublin Road 30" Water Line	700,000	-	-	-	-	-	700,000	Voted 2013 Debt - Water
Dublin Road 30" Water Line	-	-	7,700,000	-	-	-	7,700,000	WSRLA Loan
HCWP Flocc and Lime Basin Eqpt. Reconstruction	200,000	-	-	-	-	-	200,000	Voted 2013 Debt - Water
HCWP Sludge Disposal Line Imp's	1,500,000	-	-	-	-	-	1,500,000	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	500,000	500,000	5,250,000	-	-	-	6,250,000	Voted 2013 Debt - Water
HCWP Wash Water Tank Interior & Exterior Coating	600,000	-	-	-	-	-	600,000	Voted 2013 Debt - Water
PAWP HVAC Improvements	375,000	3,625,000	-	-	-	-	4,000,000	Voted 2013 Debt - Water
Water Treatment Plant Environmental Upgrades	-	400,000	-	400,000	-	-	800,000	Voted 2013 Debt - Water

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)

DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
Water Treatment Plant Environmental Upgrades	-	-	-	2,000,000	-	-	2,000,000	WSRLA Loan
Water Quality Assurance Lab Renovations	-	8,000,000	-	-	-	-	8,000,000	Voted 2013 Debt - Water
Water Main Repair	-	1,500,000	-	1,500,000	-	-	3,000,000	Voted 2013 Debt - Water
Water Main Repair	-	-	-	-	-	1,000,000	1,000,000	Water Enterprise (Unvoted)
Large Diameter Valve Replacement	1,000,000	1,000,000	1,000,000	1,000,000	-	-	4,000,000	Voted 2013 Debt - Water
Large Diameter Valve Replacement	-	-	-	-	1,000,000	1,000,000	2,000,000	Water Enterprise (Unvoted)
DRWP Laboratory Upgrades	-	-	1,500,000	-	-	-	1,500,000	Voted 2013 Debt - Water
DRWP Central Maintenance Shop	-	200,000	-	-	-	-	200,000	Voted 2013 Debt - Water
DRWP Central Maintenance Shop	-	-	-	4,800,000	-	-	4,800,000	Voted 2016 Debt - Water
Watershed Facilities Improvements	250,000	2,250,000	-	250,000	-	-	2,750,000	Voted 2013 Debt - Water
Watershed Facilities Improvements	-	-	-	-	1,250,000	-	1,250,000	Voted 2016 Debt - Water
Fire Hydrant Repairs (non R & R)	1,000,000	1,000,000	1,000,000	1,000,000	-	-	4,000,000	Voted 2013 Debt - Water
Fire Hydrant Repairs (non R & R)	-	-	-	-	1,000,000	1,000,000	2,000,000	Water Enterprise (Unvoted)
Gen'l Engineering Services - Distribution Group	500,000	600,000	600,000	600,000	-	-	2,300,000	Voted 2013 Debt - Water
Gen'l Engineering Services - Distribution Group	-	-	-	-	600,000	-	600,000	Voted 2016 Debt - Water
Gen'l Engineering Services - Distribution Group	-	-	-	-	-	600,000	600,000	Water Enterprise (Unvoted)
2016 Gen'l Engineering Services - Distribution Group	500,000	-	-	-	-	-	500,000	Voted 2013 Debt - Water
PAWP Well Pump Replacement - CWs #101, #104, and #115	350,000	3,900,000	-	-	-	-	4,250,000	Voted 2013 Debt - Water
DRWP UV Disinfection	22,000,000	-	-	-	-	-	22,000,000	WSRLA Loan
HCWP UV Disinfection	17,000,000	-	-	-	-	-	17,000,000	WSRLA Loan
Karl Road Water Tank	-	-	-	200,000	-	-	200,000	Voted 2013 Debt - Water
Karl Road Water Tank	-	-	-	-	300,000	-	300,000	Voted 2016 Debt - Water
Condition Assessment Program	-	-	1,500,000	-	-	-	1,500,000	Voted 2013 Debt - Water
Condition Assessment Program	-	-	-	-	1,500,000	-	1,500,000	Voted 2016 Debt - Water
General Architectural Services - Division of Water 2017	300,000	300,000	300,000	-	-	-	900,000	Voted 2013 Debt - Water
General Architectural Services - Division of Water 2019	-	300,000	300,000	300,000	-	-	900,000	Voted 2013 Debt - Water
Wellfield Protection Boundary Update	-	-	100,000	-	-	-	100,000	Voted 2013 Debt - Water
HCWP Lime Dust Collection System	-	300,000	700,000	-	-	-	1,000,000	Voted 2013 Debt - Water
General Construction (CA-CI)	800,000	800,000	800,000	800,000	-	-	3,200,000	Voted 2013 Debt - Water
General Construction (CA-CI)	-	-	-	-	205,000	-	205,000	Voted 2016 Debt - Water
General Construction (CA-CI)	-	-	-	-	595,000	800,000	1,395,000	Water Enterprise (Unvoted)
Hoover Reservoir Erosion Study	300,000	-	-	-	-	-	300,000	Voted 2013 Debt - Water
Plant Drain & Water System Imp's	-	450,000	2,300,000	-	-	-	2,750,000	Voted 2013 Debt - Water
Professional Construction Management (PCM) - Part II	8,300,000	4,900,000	2,000,000	1,000,000	-	-	16,200,000	Voted 2013 Debt - Water
Laboratory Upgrades	1,150,000	-	450,000	-	-	-	1,600,000	Voted 2013 Debt - Water
Dam Engineering Services (DES)	-	-	150,000	-	-	-	150,000	Voted 2013 Debt - Water
Security & Emergency Preparedness - DOW	100,000	100,000	-	-	-	-	200,000	Voted 2013 Debt - Water
Land Stewardship Update	1,000,000	-	250,000	-	-	-	1,250,000	Voted 2013 Debt - Water
DPU Hazardous Energy Control (DOW)	150,000	100,000	50,000	-	-	-	300,000	Voted 2013 Debt - Water
HCWP Sludge Removal - Lagoon 1 & 2	1,650,000	-	180,000	-	-	-	1,830,000	Voted 2013 Debt - Water
HCWP Sludge Removal - Lagoon 1 & 2	-	-	-	3,780,000	-	-	3,780,000	Voted 2016 Debt - Water
DRWP Clearwell Improvements	-	-	1,200,000	-	-	-	1,200,000	Voted 2013 Debt - Water
DRWP High Service Pump Improvements	-	-	-	-	600,000	-	600,000	Voted 2016 Debt - Water
PAWP Building Improvements	-	-	350,000	-	-	-	350,000	Voted 2013 Debt - Water
PAWP Building Improvements	-	-	-	-	3,350,000	-	3,350,000	Voted 2016 Debt - Water
HCWP AOP Improvements	-	-	-	-	250,000	-	250,000	Voted 2016 Debt - Water
HCWP Clearwell Improvements	-	-	100,000	300,000	-	-	400,000	Voted 2013 Debt - Water
HCWP Clearwell Improvements	-	-	-	-	-	2,500,000	2,500,000	WSRLA Loan
HCWP Clearwell Improvements	-	-	-	-	-	300,000	300,000	Water Enterprise (Unvoted)
PAWP Lagoon Sludge Removal	-	-	-	250,000	-	-	250,000	Voted 2013 Debt - Water
PAWP Lagoon Sludge Removal	-	-	-	-	600,000	-	600,000	Voted 2016 Debt - Water
PAWP Lagoon Sludge Removal	-	-	-	-	4,500,000	4,500,000	9,000,000	WSRLA Loan
PAWP Lagoon Sludge Removal	-	-	-	-	-	350,000	350,000	Water Enterprise (Unvoted)
DRWP Automation Upgrade	-	-	-	2,600,000	-	-	2,600,000	Voted 2016 Debt - Water
PAWP Remote Site Improvements	-	-	-	400,000	-	-	400,000	Voted 2013 Debt - Water

Capital Improvements Program

2018 - 2023 CAPITAL IMPROVEMENTS PROGRAM (cont.)								
DEPARTMENT PROJECT	2018	2019	2020	2021	2022	2023	Total Budget	Funding Source
PAWP Remote Site Improvements	-	-	-	-	3,600,000	-	3,600,000	Voted 2016 Debt - Water
Freight Elevator Improvements	-	-	-	-	200,000	-	200,000	Voted 2016 Debt - Water
Watershed Signage Master Plan	-	-	400,000	-	-	-	400,000	Voted 2013 Debt - Water
Watershed Signage Master Plan	-	-	-	-	150,000	-	150,000	Voted 2016 Debt - Water
DOW Risk Mitigation Measure Upgrades	-	600,000	1,000,000	1,000,000	-	-	2,600,000	Voted 2013 Debt - Water
DOW Risk Mitigation Measure Upgrades	-	-	-	-	500,000	-	500,000	Voted 2016 Debt - Water
DOW LIMS Upgrade	-	600,000	-	-	-	-	600,000	Voted 2013 Debt - Water
Electrical Power System Studies	-	450,000	200,000	100,000	-	-	750,000	Voted 2013 Debt - Water
Electrical Power System Studies	-	-	-	-	100,000	-	100,000	Voted 2016 Debt - Water
Electrical Power System Studies	-	-	-	-	-	100,000	100,000	Water Enterprise (Unvoted)
RTU Replacement	-	-	200,000	650,000	-	-	850,000	Voted 2013 Debt - Water
RTU Replacement	-	-	-	-	300,000	-	300,000	Voted 2016 Debt - Water
DOW Safety Improvements	-	600,000	-	1,200,000	-	-	1,800,000	Voted 2013 Debt - Water
DRWP Intake Screen Replacement	-	-	-	-	200,000	-	200,000	Voted 2016 Debt - Water
DRWP Intake Screen Replacement	-	-	-	-	-	1,250,000	1,250,000	WSRLA Loan
DRWP Intake Screen Replacement	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
DRWP Caustic Feed Improvements	-	-	150,000	150,000	-	-	300,000	Voted 2013 Debt - Water
DRWP Caustic Feed Improvements	-	-	-	500,000	-	-	500,000	WSRLA Loan
PAWP Sludge Disposal Improvements	-	-	-	1,000,000	-	-	1,000,000	Voted 2013 Debt - Water
PAWP Sludge Disposal Improvements	-	-	-	-	-	1,000,000	1,000,000	WSRLA Loan
PAWP Wellfield Development	-	-	-	-	800,000	-	800,000	Voted 2016 Debt - Water
PAWP Perimeter Fence Improvements	-	-	-	-	200,000	-	200,000	Voted 2016 Debt - Water
Large Diameter Valve Replacement	-	-	-	-	150,000	-	150,000	Voted 2016 Debt - Water
Large Diameter Valve Replacement	-	-	-	-	-	1,150,000	1,150,000	Water Enterprise (Unvoted)
PAWP Backwash Pump Replacement	-	-	-	-	-	200,000	200,000	Water Enterprise (Unvoted)
Upground Reservoir Embankment Repairs - 2019	-	300,000	-	-	-	-	300,000	Voted 2013 Debt - Water
Upground Reservoir Embankment Repairs - 2023	-	-	-	-	-	500,000	500,000	Water Enterprise (Unvoted)
Watershed Boathouse Improvements	-	-	-	-	150,000	-	150,000	Voted 2016 Debt - Water
Watershed Boathouse Improvements	-	-	-	-	-	600,000	600,000	Water Enterprise (Unvoted)
Professional Construction Management (PCM) - 2018	-	4,500,000	2,400,000	-	-	-	6,900,000	Voted 2013 Debt - Water
Professional Construction Management (PCM) - 2018	-	-	-	4,800,000	1,800,000	-	6,600,000	Voted 2016 Debt - Water
Professional Construction Management (PCM) - 2018	-	-	-	-	-	6,900,000	6,900,000	Water Enterprise (Unvoted)
Subtotal - WATER	\$ 162,975,000	\$ 150,635,000	\$ 139,430,000	\$ 140,230,000	\$ 107,350,000	\$ 101,200,000	\$ 801,820,000	
Grand Total	\$ 567,754,355	\$ 459,581,175	\$ 518,654,830	\$ 664,235,024	\$ 421,804,889	\$ 292,564,799	\$ 2,924,595,072	

2018-2023 CAPITAL IMPROVEMENTS PROGRAM							
FUNDING SUMMARY BY DIVISION							
DIVISION	2018	2019	2020	2021	2022	2023	Total Budget
Dev Administration	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 21,600,000
Construction Management	8,690,000	8,690,000	8,690,000	8,690,000	8,690,000	8,690,000	52,140,000
Fleet Management	400,000	800,000	800,000	800,000	800,000	800,000	4,400,000
Police	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	1,680,000	10,080,000
Fire	14,320,000	7,320,000	7,320,000	7,320,000	7,320,000	7,320,000	50,920,000
Transportation	47,905,000	43,905,000	43,905,000	43,905,000	43,905,000	43,905,000	267,430,000
Refuse Collection	6,080,000	6,080,000	6,080,000	6,080,000	6,080,000	6,080,000	36,480,000
Storm Sewer	22,267,530	5,621,015	9,232,788	4,858,902	28,580,961	2,411,297	72,972,493
Sanitary Sewers	242,735,558	195,969,893	263,171,430	412,001,403	177,697,460	86,315,430	1,377,891,174
Electricity	14,596,267	8,385,267	6,740,612	7,919,719	7,561,468	3,048,072	48,251,405
Water	162,975,000	150,635,000	139,430,000	140,230,000	107,350,000	101,200,000	801,820,000
Recreation and Parks	36,780,000	22,780,000	22,780,000	22,780,000	22,780,000	22,780,000	150,680,000
DoT Administration	5,725,000	4,115,000	5,225,000	4,370,000	5,760,000	4,735,000	29,930,000
Total	\$ 567,754,355	\$ 459,581,175	\$ 518,654,830	\$ 664,235,024	\$ 421,804,889	\$ 292,564,799	\$ 2,924,595,072

Capital Improvements Program

2018-2023 CAPITAL IMPROVEMENTS PROGRAM							
FUNDING SUMMARY BY SOURCE							
FUNDING SOURCE	2018	2019	2020	2021	2022	2023	Total Budget
Voted 2016 Debt - Water	\$ -	\$ -	\$ -	\$ 62,750,000	\$ 39,255,000	\$ -	\$ 102,005,000
Voted 2016 Debt SIT Supported	103,390,000	81,765,000	81,765,000	64,370,000	19,630,000	175,000	351,095,000
Information Services	5,725,000	4,115,000	5,225,000	4,370,000	5,760,000	4,735,000	29,930,000
Voted 2013 Debt - Electricity	2,235,000	-	-	-	-	-	2,235,000
Voted 2016 Debt - Sanitary Sewer	26,585,445	65,399,834	55,226,912	39,604,262	64,706,958	15,643,649	267,167,060
Voted 2013 Debt SIT Supported	3,375,000	-	-	-	-	-	3,375,000
WSRLA Loan	97,625,000	79,300,000	89,100,000	59,600,000	65,500,000	42,250,000	433,375,000
Councilmanic SIT Supported	12,290,000	12,290,000	12,290,000	29,685,000	74,930,000	94,385,000	235,870,000
Voted 2016 Debt - Electricity	12,361,267	8,385,267	6,740,612	6,202,854	-	-	33,690,000
Electricity Enterprise (Unvoted)	-	-	-	1,716,865	7,056,468	2,543,072	11,316,405
WPCLF/OWDA	177,543,943	132,495,261	215,719,850	376,829,230	138,371,463	72,983,078	1,113,942,825
Voted 2013 Debt - Water	65,350,000	71,335,000	50,330,000	17,880,000	-	-	204,895,000
Fleet Management (Unvoted)	400,000	800,000	800,000	800,000	800,000	800,000	4,400,000
Voted 2008 Debt-Sanitary Sewer	55,250,000	-	-	-	-	-	55,250,000
Water Enterprise (Unvoted)	-	-	-	-	2,595,000	58,950,000	61,545,000
Voted 2016 Debt - Storm	4,418,700	3,695,813	1,457,456	426,813	3,200,000	100,000	13,298,782
Voted 2013 Debt - Storm	1,205,000	-	-	-	-	-	1,205,000
Total	\$ 567,754,355	\$ 459,581,175	\$ 518,654,830	\$ 664,235,024	\$ 421,804,889	\$ 292,564,799	\$ 2,924,595,072

PROPOSED 2018 CAPITAL IMPROVEMENT BUDGET

Public Safety

Police

Project Name: Police Facility Renovations
Type: Recurring
Estimated 2018 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.

Police subtotal - \$1,680,000

Fire

Project Name: Fire Facility Renovation
Type: Recurring
Estimated 2018 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 2018 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.

Project Name: Fire Station #16
Type: Non-Recurring
Estimated 2018 Cost: \$7,000,000
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, located on Oakland Avenue that is of adequate size to accommodate construction of a modern Fire/EMS facility to serve the North Linden Neighborhood.

Fire subtotal - \$14,320,000

Public Safety Total - \$16,000,000

Development

Project Name: Green Columbus Projects
Type: Recurring
Estimated 2018 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 2018 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 2018 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 2018 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 2018 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 2018 Cost: \$2,748,000

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 2018 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 2018 Cost: \$2,642,000

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 2018 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 - \$8,690,000

Capital Improvements Program

Fleet Management

Project Name: Fuel Tank Management
Type: Recurring
Estimated 2018 Cost: \$400,000
Funding Source: Fleet Management G.O. Bonds
Operating Impact: Minimal to moderate reduction in preventative maintenance costs
Project Description: Renovation, remediation, removal, and/or replacement of citywide fueling infrastructure, including fuel tanks, fuel storage, and dispensing units.

Fleet Management subtotal - \$400,000

Finance and Management Total - \$9,090,000

Technology

Project Name: City Hall Data Center Facility Upgrades
Type: Recurring
Estimated 2018 Cost: \$30,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of end of life uninterrupted power supply equipment located at City Hall.

Project Name: Connectivity Project Fiber/Wireless
Type: Recurring
Estimated 2018 Cost: \$750,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Funds to continue installing fiber optic laterals which will connect the city facilities to the fiber network backbone.

Project Name: Columbus Traffic Signal System (CTSS) Fiber Purchases B, C, D
Type: Recurring
Estimated 2018 Cost: \$900,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Expansion of the current fiber optic network to improve citywide information flow. This project uses the current CTSS to reduce costs associated with the expansion.

Project Name: Enterprise System Upgrades
Type: Recurring
Estimated 2018 Cost: \$1,700,000
Funding Source: Information Services G.O. Bonds
Operating Impact: \$50,000
Project Description: Replacement of the technology infrastructure that includes the upgrade or replacement of servers, backup recording storage, and professional services.

Project Name: Enterprise System Upgrades – Security Programs
Type: Recurring
Estimated 2018 Cost: \$190,000
Funding Source: Information Services G.O. Bonds
Operating Impact: \$25,000
Project Description: Continued replacement of equipment and professional review of security controls to provide additional cybersecurity to protect city systems.

Project Name: Asset Management
Type: Recurring
Estimated 2018 Cost: \$190,000
Funding Source: Information Services G.O. Bonds
Operating Impact: \$25,000
Project Description: Implementation of an integrated system for the management of assets across various city divisions for service and operations management.

Capital Improvements Program

Project Name: Enterprise System Upgrades – GIS
Type: Recurring
Estimated 2018 Cost: \$90,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continued review and replacement of equipment associated with the city's GIS network.

Project Name: Enterprise System Upgrades – Applications
Type: Recurring
Estimated 2018 Cost: \$150,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Design and development testing for upgrades related to software applications used throughout the city.

Project Name: E-Gov Initiatives
Type: Recurring
Estimated 2018 Cost: \$270,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: System upgrades to the content management system that generate data for the city's websites.

Project Name: E-Gov Initiatives - SharePoint
Type: Recurring
Estimated 2018 Cost: \$100,000
Funding Source: Information Services G.O. Bonds
Operating Impact: Minimal
Project Description: Creation and implementation of a coordinated document sharing system for all city departments.

Project Name: Telephony Upgrade – Voice Over Internet Protocol (VOIP)
Type: Recurring
Estimated 2018 Cost: \$735,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Replacement of end of life equipment and expansion of the telephony infrastructure.

Project Name: Interactive Voice Response (IVR) Telephony Enhancements
Type: Recurring
Estimated 2018 Cost: \$40,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Continued upgrades to the existing platform to increase operating functionality and efficiency.

Capital Improvements Program

Project Name: Unified Communications
Type: Recurring
Estimated 2018 Cost: \$150,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: Upgrade and expand the telephony infrastructure and functionality throughout the city.

Project Name: Network Improvements
Type: Recurring
Estimated 2018 Cost: \$430,000
Funding Source: Information Services G.O. Bonds
Operating Impact: None
Project Description: The purchase of equipment and system upgrades associated with the citywide data network.

Technology Total - \$5,725,000

Recreation and Parks

Project Name: Urban Infrastructure Projects
Type: Recurring
Estimated 2018 Cost: \$753,200
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal
Project Description: Funds used for park improvements and development in urban locations. Specific parks and projects are selected for funding on an annual basis via community requests.

Project Name: Swimming Facilities
Type: Recurring
Estimated 2018 Cost: \$2,318,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$42,000
Project Description: Continued improvement to the city's existing swimming facilities. Funds are used for renovation and equipment replacement as well as potential construction of a new swimming facility.

Project Name: Park & Playground Development
Type: Recurring
Estimated 2018 Cost: \$806,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$50,000
Project Description: Continued improvement and development of existing parks. Improvements may include replacement or renovation of aging playgrounds, shelters, and grounds.

Project Name: Park & Playground Miscellaneous Improvements & Cost Allocations
Type: Recurring
Estimated 2018 Cost: \$425,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding for unanticipated improvements or renovations of park facilities throughout the city. Funding is also allocated to eligible project management costs as improvements are needed.

Project Name: Hard Surface Improvements
Type: Recurring
Estimated 2018 Cost: \$800,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Annual improvement and replacement of existing hard surface areas. These can include but are not limited to sidewalks, parking lots, walking trails, tennis courts, and basketball courts.

Capital Improvements Program

Project Name: Facility Renovations, Contingencies, & Cost Allocations
Type: Recurring
Estimated 2018 Cost: \$1,974,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$0 - \$45,000 annual increase
Project Description: Improvements to aging facilities as well as funding for construction of new recreation facilities. Funding is also allocated to eligible project management costs as improvements are needed.

Project Name: HVAC Improvements
Type: Recurring
Estimated 2018 Cost: \$3,150,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding to continue the replacement of outdated and inefficient HVAC equipment to various recreational facilities throughout the city.

Project Name: Facility Roof Improvements
Type: Recurring
Estimated 2018 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.

Project Name: Linden Community Recreation Center and Park
Type: Non-Recurring
Estimated 2018 Cost: \$14,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$317,500 annual increase
Project Description: Replacement and expansion of the entire community center and park.

Project Name: Street Tree Initiative
Type: Recurring
Estimated 2018 Cost: \$400,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Continued effort to plant new or replacement street trees each year. Costs include the planting of 2,000 to 2,500 trees annually.

Project Name: Maintenance Equipment
Type: Recurring
Estimated 2018 Cost: \$300,000
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.

Capital Improvements Program

Project Name: Park Acquisition
Type: Recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase in maintenance costs
Project Description: Purchase of land in underserved areas or conservation to expand the existing park system.

Project Name: Central Maintenance Zone Headquarters
Type: Non-recurring
Estimated 2018 Cost: \$4,500,000
Funding Source: Voted 2013 SIT Supported G.O. Bonds; Voted 2016 SIT Supported G.O. Bonds
Operating Impact: \$28,000 annual increase
Project Description: Construction of a new facility to house maintenance equipment and staff utilized in the upkeep of parks in the central city areas.

Project Name: Bikeway Trail Safety
Type: Recurring
Estimated 2018 Cost: \$433,800
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Continuation of the bikeway trail safety program. Annual allocation for paving improvements, fencing, and implementation of safety equipment along the existing bikeway trails.

Project Name: Greenways Projects
Type: Recurring
Estimated 2018 Cost: \$3,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal increase in maintenance costs
Project Description: Funding dedicated to building new trails and protecting stream corridors throughout the city. Funds may also be used to acquire expanded preservation corridors along the city's waterways.

Project Name: Watercourse Bike Path Development & Connection Improvements
Type: Recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Improvements and upgrades to improve waterway and boat launch areas.

Project Name: Safe Playgrounds
Type: Recurring
Estimated 2018 Cost: \$500,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding to provide safe and accessible playgrounds throughout the city. Funds are used in the construction of new playgrounds and the replacement of older equipment. Playgrounds that do not meet current safety or accessibility standards are the highest priority for replacement.

Capital Improvements Program

Project Name: Golf – Equipment Replacement
Type: Recurring
Estimated 2018 Cost: \$200,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Annual replacement of equipment related to the golf course operations.

Project Name: Golf – Hard Surface Improvements
Type: Recurring
Estimated 2018 Cost: \$70,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Renovations and replacements of the cart paths, walkways, and parking areas related to city golf courses.

Project Name: Golf – Facility and Miscellaneous Improvements
Type: Recurring
Estimated 2018 Cost: \$350,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Improvements to aging facilities which includes but is not limited to electrical, plumbing, and roof replacements.

Recreation and Parks Total - \$36,780,000

Public Service

Transportation

Project Name: Urban Infrastructure Recovery
Type: Recurring
Estimated 2018 Cost: \$5,651,813
Funding Source: Voted 2016 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: Street Equipment – Traffic and Infrastructure Management
Type: Recurring
Estimated 2018 Cost: \$856,794
Funding Source: Voted 2016 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 2018 Cost: \$2,500,000
Funding Source: Voted 2016 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: Alley Rehabilitation
Type: Recurring
Estimated 2018 Cost: \$1,500,000
Funding Source: Voted 2016 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 2018 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.

Capital Improvements Program

Project Name: Curb Reconstruction
Type: Recurring
Estimated 2018 Cost: \$50,000
Funding Source: Voted 2016 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 2018 Cost: \$18,500,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Funding for resurfacing of roadways to restore surfaces to like new conditions. Resurfacing priorities are determined based on pavement management reports and public input. Funding is also included for several urban paving sites where resurfacing projects are joint endeavors with the Ohio Department of Transportation. The following sites are related to the urban paving program:

- State Route 33 Dublin Road/Spring Street
- West Broad Street
- Morse Road and High Street
- Town Street/Glenwood Avenue/Rich Street
- Dublin-Granville Road
- Polaris Parkway

Project Name: Bridge Rehabilitation
Type: Recurring
Estimated 2018 Cost: \$3,371,393
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Funding for design and construction work associated with the replacement of expansion joints, full and partial bridge deck replacement, sidewalk and curb reconstruction, and other rehabilitation work to city bridges. The following sites are included for 2018:

- Godown Road Bridge
- Independence Village Culvert Replacements
- Parsons Road under the Railroad Retaining Walls
- Second Avenue Railroad Bridge
- Calumet Street over Walhalla Road
- Brentnell Neighborhood Culverts

Project Name: Housing Initiatives
Type: Recurring
Estimated 2018 Cost: \$800,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Funding established to aid in the development of roadway infrastructure in areas where local developers seek to build housing units.

Capital Improvements Program

Project Name: Bikeway Development
Type: Recurring
Estimated 2018 Cost: \$2,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Increase
Project Description: Funding to expand and renovate the existing bikeway system, including the creation and addition of shared use paths. Bikeway development included for 2018 includes the following:

- Olentangy River Road Shared Use Path – Kinnear Road to Lane Avenue
- Morse Road at Alum Creek Trail
- Trabue Road Shared Use Path over Railroad
- Refugee Road over Big Walnut Creek

Project Name: Traffic Signal Installation – Commodities
Type: Recurring
Estimated 2018 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 2018 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: School Flashers – 20 MPH – Commodities
Type: Recurring
Estimated 2018 Cost: \$50,000
Funding Source: Voted 2016 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: Permanent Pavement Markings
Type: Recurring
Estimated 2018 Cost: \$500,000
Funding Source: Voted 2016 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 2018 Cost: \$4,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Installation of new and replacement sidewalks based on public input. Pedestrian safety improvements for 2018 include the following:

- Wilson Road Shared Use Path
- McGuffey Road and Duxberry Avenue
- Binns Avenue Burroughs
- Cleveland Avenue to Lehner Road
- Souder Avenue Bike Lanes and Sidewalks
- Toronto Street Sidewalks
- CelebrateOne Sidewalks
- Maple Canyon Avenue Sidewalks

Project Name: Poindexter Village Roadways
Type: Non-Recurring
Estimated 2018 Cost: \$4,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Improvements to the roadways in the Poindexter Village area. Improvements will also include upgrades to the storm water, sanitary, and water systems.

Transportation subtotal - \$47,905,000

Refuse

Project Name: Mechanized Collection Equipment – 96-Gallon Containers
Type: Recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment for replacement and expansion purposes.

Project Name: Mechanized Collection Equipment – 300-Gallon Containers
Type: Recurring
Estimated 2018 Cost: \$755,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment for replacement and expansion purposes.

Project Name: Mechanized Collection Equipment – Automated Side Loader Trucks
Type: Recurring
Estimated 2018 Cost: \$3,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Capital Improvements Program

Project Name: Mechanized Collection Equipment – Rear Loading Trucks
Type: Recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Project Name: Mechanized Collection Equipment – Knuckle Boom Trucks
Type: Recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: Minimal Reduction
Project Description: Replacement of aging equipment. New equipment should require fewer repairs and replacement parts.

Project Name: Mechanized Collection Equipment – Dumpsters
Type: Recurring
Estimated 2018 Cost: \$25,000
Funding Source: Voted 2016 SIT Supported G.O. Bonds
Operating Impact: None
Project Description: Purchase of equipment for replacement and expansion purposes.

Refuse subtotal - \$6,080,000

Public Service Total - \$53,985,000

Public Utilities

Storm Sewer

Project Name: Fountain Square Stormwater System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$3,496,726
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 2018 Cost: \$1,545,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds; 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 Engineering Services - Storm
Type: Recurring
Estimated 2018 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: Linden Neighborhood Stormwater System Improvements Phase 2
Type: Non-recurring
Estimated 2018 Cost: \$1,060,900
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Mitigation of street and yard flooding, and the reduction of drainage issues in the Linden Neighborhood.

Project Name: Lehnert Farms/Bolton Field Stormwater System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$1,030,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Analysis and design of stormwater system improvements from the Lehnert Farms detention basin through the Bolton Field Golf Course to Bausch Road.

Capital Improvements Program

Project Name: Detention Basin Modifications
Type: Recurring
Estimated 2018 Cost: \$1,500,000
Funding Source: Ohio Water Development Authority Loan; Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Engineering services to modify existing detention basins to improve water quality features and reduce maintenance costs. Detention basin modifications for 2018 include funding for the following:

- Woodward Avenue Detention Basin
- Summit View Detention Basin

Project Name: Olde Beechwold Area Stormwater System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$2,880,000
Funding Source: Ohio Water Development Authority Loan; Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Stormwater system improvements to mitigate street and yard flooding within the Olde Beechwold historic neighborhood.

Project Name: Rathbone Avenue Stormwater System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$1,900,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Mitigation of street flooding, yard flooding, and water in basement occurrences in the Rathbone Avenue area.

Project Name: Holt Avenue/Somersworth Drive Stormwater System Improvements
Type: Non-recurring
Estimated 2018 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: Sanitary Maintenance and Operations Center (SMOC) Facility Stormwater Improvements
Type: Non-recurring
Estimated 2018 Cost: \$2,185,454
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Improvements to the current facility and area stormwater infrastructure.

Project Name: Pump Stations, ST-21, ST-22, ST-23 Improvements
Type: Recurring
Estimated 2018 Cost: \$2,500,000
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

Capital Improvements Program

Project Name: Central Avenue Underpass Stormwater System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2013 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design and construction of storm sewer improvements along Central Ave between Mound Street and Union Avenue. Project will mitigate flooding of Central Avenue at the railroad bridge.

Project Name: Windsor Avenue Stormwater System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$600,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Design and construction of stormwater improvements along the Windsor Avenue service road.

Project Name: Krieger Court Stormwater Improvements
Type: Non-recurring
Estimated 2018 Cost: \$298,700
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: Bethel Road Culvert Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$1,570,750
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Minimal
Project Description: Rehabilitation of the structural integrity and hydraulic capability of the original culvert.

Stormwater subtotal - \$22,267,530

Capital Improvements Program

Sanitary Sewers

Project Name: Real Time Control - TBD
Type: Non-recurring
Estimated 2018 Cost: \$500,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Program to identify projects that will reduce sewer overflows and improve water quality.

Project Name: Real Time Control – Alum Creek Storm Tanks
Type: Non-recurring
Estimated 2018 Cost: \$1,550,000
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: Recurring
Estimated 2018 Cost: \$500,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to determine how additional real time control strategies can be implemented within the wastewater collection and treatment system to ultimately reduce overflows.

Project Name: Department of Sewers and Drains (DOSD) Security & Emergency Preparedness
Type: Recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Development and installation of a security and emergency preparedness program to better protect, prepare for, respond to, and recover from disasters.

Project Name: Big Walnut Sanitary Trunk Extension, Phase 2
Type: Recurring
Estimated 2018 Cost: \$1,092,727
Funding Source: Voted 2008 Sanitary Sewer 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 2018 Cost: \$350,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Extension of the existing 30" sanitary subtrunk sewer approximately 5,800 linear feet along Central College Road towards New Albany

Project Name: Blacklick Creek Interceptor Sewer
Type: Non-recurring
Estimated 2018 Cost: \$4,276,354
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Extension of the existing Blacklick Sanitary Interceptor from its existing terminus just south of Blacklick Creek Boulevard north to Morse Road along Reynoldsburg New Albany Road. Funding includes construction administration and inspection costs

Project Name: General Engineering Services Contract
Type: Recurring
Estimated 2018 Cost: \$200,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for engineering services for sanitary sewer projects throughout the city on an as needed basis

Project Name: Roof Replacements for Department of Public Utilities Facilities
Type: Recurring
Estimated 2018 Cost: \$4,008,850
Funding Source: Voted 2008 Sanitary Sewer 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 2018 Cost: \$17,061,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Expansion of the Biosolids land application program as recommended by the 2009 Solids Treatment and Utilization Master Plan. Funds also include rehabilitation of existing storage tanks.

Project Name: JPWWTP Digester Cover Rehabilitation
Type: Recurring
Estimated 2018 Cost: \$1,978,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Reduction in energy costs starting in 2020
Project Description: Replacement of the air and gas membranes, along with the controls, for the digester covers on the six existing anaerobic digesters.

Project Name: JPWWTP Cogeneration Facility
Type: Non-recurring
Estimated 2018 Cost: \$962,020
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Undetermined at this time
Project Description: Implementation of a cogeneration facility that uses digester biogas to provide approximately half of the plant's electricity. Project will also replace boilers that are at the end of their useful life.

Capital Improvements Program

Project Name: Facilities & Equipment Upgrade for Whittier Street Storm Tanks
Type: Non-recurring
Estimated 2018 Cost: \$13,200,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Upgrading of processing, electrical, and metering equipment for the Whittier Street stormwater control tanks.

Project Name: Short Circuit, Coordination, and Arc Flash Studies #1
Type: Recurring
Estimated 2018 Cost: \$318,270
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) #2 and #3
Type: Recurring
Estimated 2018 Cost: \$1,050,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; 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 2018 Cost: \$400,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for JPWWTP Plant projects submitted through the General Engineering Consultant Service contracts.

Project Name: JPWWTP Aeration Control A (ACA) Lightning Protection Upgrade
Type: Recurring
Estimated 2018 Cost: \$132,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Upgrade of the lightning protection and the electrical grounding systems at JPWWTP.

Project Name: Southerly Waste Water Treatment Plant (SWWTP) Small Capital Projects
Type: Recurring
Estimated 2018 Cost: \$77,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for SWWTP projects submitted through the General Engineering Consultant Service contracts.

Capital Improvements Program

Project Name: SWWTP Building Heating Improvements – Boiler Revisions
Type: Non-recurring
Estimated 2018 Cost: \$1,828,970
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding to analyze and determine heating alternatives available for the replacement of three oil fired systems located at the SWWTP.

Project Name: SWWTP Boiler System Operational Improvements
Type: Non-recurring
Estimated 2018 Cost: \$1,388,370
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Rehabilitation of the existing service building steam plant at the SWWTP.

Project Name: SWWTP Monitoring and Control Addition (MCA) HVAC System Replacement
Type: Non-recurring
Estimated 2018 Cost: \$773,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of the HVAC system with has reached the end of its useful life.

Project Name: SMOC Small Capital Projects
Type: Recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for SMOC projects submitted through the General Engineering Consultant Service contracts.

Project Name: Fairwood Avenue Building Facilities Small Capital Projects
Type: Recurring
Estimated 2018 Cost: \$50,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Funding for projects submitted through the General Engineering Consultant Service contracts located at the Department of Public Utilities Fairwood Avenue building.

Project Name: HVAC & Air Purification System Replacement
Type: Non-recurring
Estimated 2018 Cost: \$522,725
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.

Capital Improvements Program

Project Name: Department of Public Utilities Hazardous Energy Control
Type: Recurring
Estimated 2018 Cost: \$159,135
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: SWWTP Digestion Process Expansion
Type: Non-recurring
Estimated 2018 Cost: \$20,304,000
Funding Source: Voted 2008 Sanitary Sewer 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: SWWTP Cogeneration Facility
Type: Non-recurring
Estimated 2018 Cost: \$660,230
Funding Source: Ohio Water Development Authority Loan
Operating Impact: Reduction in costs due to energy savings in 2020
Project Description: Implementation of a cogeneration facility that uses digester biogas to provide approximately half of the plant's electricity. Project will also examine existing boilers and provide an engineering study of ways to increase biogas production for increased electrical production.

Project Name: SWWTP Post Aeration Diffuser Replacement
Type: Non-recurring
Estimated 2018 Cost: \$171,000
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.

Project Name: Waste Water Treatment Facilities Upgrade – General Program #4
Type: Recurring
Estimated 2018 Cost: \$1,894,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Continuation of the general overall engineering consultant contract which provides assistance in the execution of large capital improvement projects for the division.

Project Name: Compost Facility Odor Control Improvements
Type: Non-recurring
Estimated 2018 Cost: \$2,394,865
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.

Capital Improvements Program

Project Name: 2018 Annual Lining Contract
Type: Non-recurring
Estimated 2018 Cost: \$5,850,000
Funding Source: Voted 2008 Sanitary Sewer 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: Cleveland Avenue Sanitary Sewer Extension
Type: Non-recurring
Estimated 2018 Cost: \$154,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Extension of the current sanitary sewer located along Cleveland Avenue and bounded to the North and South by Interstate 670.

Project Name: Sewer System Capacity Model Update 2012
Type: Non-recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Minimal
Project Description: Continuation of the development of the city's Sewer System Capacity Model which evaluates capacity deficiencies and aids the division in ensuring continued compliance with Environmental Protection Agency Consent Orders.

Project Name: Big Walnut Interceptor Lockbourne Subtrunk Canal Road Area
Type: Non-recurring
Estimated 2018 Cost: \$750,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: Extension of sewer services along the development Rickenbacker Rail Campus.

Project Name: Lockbourne Subtrunk Air Quality Improvements
Type: Non-recurring
Estimated 2018 Cost: \$3,709,232
Funding Source: Voted 2008 Sanitary Sewer 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: Big Walnut Augmentation/Rickenbacker Interceptor
Type: Non-recurring
Estimated 2018 Cost: \$3,090,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Construction of a sewer extension just south of Rickenbacker Airport.

Capital Improvements Program

Project Name: Intermodal Sanitary Subtrunk Extension
Type: Non-recurring
Estimated 2018 Cost: \$150,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Extension of sanitary sewer service further into the Northern Pickaway Joint Economic Development District by constructing a new sanitary subtrunk sewer.

Project Name: Rickenbacker Intermodal Sanitary Extension
Type: Non-recurring
Estimated 2018 Cost: \$750,000
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.

Project Name: East Franklinton Phase 1
Type: Non-recurring
Estimated 2018 Cost: \$1,542,406
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; 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 2018 Cost: \$503,928
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Construction of sanitary sewers in a currently unsewered area.

Project Name: Fairwood/Griggs Radio Replacement
Type: Non-recurring
Estimated 2018 Cost: \$51,500
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Replacement of communication equipment that has currently reach the end of its useful life.

Project Name: Franklin Main Interceptor Rehabilitation, Sec. 6
Type: Non-recurring
Estimated 2018 Cost: \$2,300,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Inspection and rehabilitation of the Franklin Main Interceptor from West Second Avenue to Kind Avenue.

Capital Improvements Program

Project Name: Portage Grove Area Assessment
Type: Non-recurring
Estimated 2018 Cost: \$2,000,000
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 2018 Cost: \$70,000
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 2018 Cost: \$7,128,951
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Design and construction of a relief sewer in the Olentangy sewer area.

Project Name: Big Walnut Trunk Sewer – North
Type: Non-recurring
Estimated 2018 Cost: \$772,500
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Olentangy-Scioto-Interceptor-Sewer (OSIS) Large Diameter Sewer Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$1,200,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Required rehabilitation restoring the hydraulic capacity of existing infrastructure to extend its useful life.

Project Name: Center Large Diameter Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$5,772,500
Funding Source: Voted 2008 Sanitary Sewer 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.

Capital Improvements Program

Project Name: West Side Trunk Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$300,000
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 2018 Cost: \$530,450
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 2018 Cost: \$1,449,870
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds; 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: Non-recurring
Estimated 2018 Cost: \$750,000
Funding Source: Voted 2008 Sanitary Sewer 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 B & C
Type: Non-recurring
Estimated 2018 Cost: \$8,650,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Rehabilitation of the current infrastructure to extend the useful life.

Project Name: Brimfield Area Sanitary System Repair Project
Type: Non-recurring
Estimated 2018 Cost: \$1,339,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Design and construction of improvements to the sanitary sewer system in the area of Brimfield Road, Beechcroft Road, Tamarack Boulevard, and Forest Village Lane.

Capital Improvements Program

Project Name: 2018 General Construction Contract
Type: Recurring
Estimated 2018 Cost: \$1,755,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction and replacement of the older existing sewer infrastructure on an as needed basis.

Project Name: Williams Road / Castle Road Sanitary Pump Station Control Valve
Type: Non-recurring
Estimated 2018 Cost: \$3,713,150
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Replacement of the existing hydraulic pump control valves.

Project Name: Third Avenue Combined Sewer Overflows Increased Capture and Green Infrastructure
Type: Non-recurring
Estimated 2018 Cost: \$3,294,572
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: Compost Facility Leachate Basin
Type: Non-recurring
Estimated 2018 Cost: \$1,030,000
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Project to design and enlarge the leachate basin and forcemain at the compost facility.

Project Name: Moler Street Overflow Intercepting Sewer
Type: Recurring
Estimated 2018 Cost: \$257,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design and construction of infrastructure that will mitigate CSO in the Moler Street sewer shed.

Project Name: Third Avenue Relief Sewer, Phase 3
Type: Non-recurring
Estimated 2018 Cost: \$4,084,465
Funding Source: Voted 2008 Sanitary Sewer 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.

Capital Improvements Program

Project Name: Inflow Redirection – Markison Avenue
Type: Non-recurring
Estimated 2018 Cost: \$1,797,155
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 near the intersection of Markison Avenue and Wilson Avenue.

Project Name: General Construction Administration/Construction Inspection
Type: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Funding for construction administration and inspection services during the construction of various sanitary sewer projects.

Project Name: Upsizing Sewer Pipes – Project ID 1, 2, and 3 – Near South
Type: Non-recurring
Estimated 2018 Cost: \$380,698
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Upgrades to the collection system in order to mitigate water in basement events.

Project Name: Blueprint Clintonville Professional Construction Management Services
Type: Non-recurring
Estimated 2018 Cost: \$1,030,000
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Construction management services for the installation of green infrastructure in the Clintonville pilot area of the city's Blueprint Columbus Initiative.

Project Name: Blueprint Linden
Type: Non-recurring
Estimated 2018 Cost: \$16,826,677
Funding Source: Voted 2008 Sanitary Sewer 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

Project Name: Blueprint Hilltop
Type: Non-recurring
Estimated 2018 Cost: \$13,549,000
Funding Source: Voted 2008 Sanitary Sewer 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 2018 Cost: \$8,010,899
Funding Source: Voted 2008 Sanitary Sewer 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 2017 Clintonville 2
Type: Non-recurring
Estimated 2018 Cost: \$3,605,000
Funding Source: Voted 2008 Sanitary G.O. Bonds; Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Implementation of green infrastructure to address and treat surface runoff to improve water quality.

Project Name: Blueprint Integrated Solutions
Type: Non-recurring
Estimated 2018 Cost: \$2,869,991
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: None
Project Description: Implementation of the consent order requirements to remove or reroute inflow infiltration from the sanitary sewers at the following locations:

- Winthrop/Milton Area
- Dorris/Weber Area
- Fredonia/Peidmont Area
- Tulane/Findley Area
- Milford/Summit Area

Project Name: Blueprint Olde Beechwold Area
Type: Non-recurring
Estimated 2018 Cost: \$25,000
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 in the Olde Beechwold area.

Capital Improvements Program

Project Name: Green Infrastructure – Clintonville 2 Blueprint Area
Type: Recurring
Estimated 2018 Cost: \$3,919,150
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Installation of green infrastructure to address surface runoff.

Project Name: Blueprint Hilltop 4 – Highland/Harris
Type: Recurring
Estimated 2018 Cost: \$238,702
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.

Project Name: West Franklinton Sewer Improvements
Type: Recurring
Estimated 2018 Cost: \$715,960
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
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: Roof Redirection – Clintonville 1 Blueprint Area
Type: Non-recurring
Estimated 2018 Cost: \$6,270,343
Funding Source: Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Redirection of downspouts from to discharge to the street to remove excess stormwater from the sanitary sewer system.

Project Name: Lateral Lining – Fifth by Northwest Blueprint Area
Type: Non-recurring
Estimated 2018 Cost: \$16,357,260
Funding Source: Voted 2016 Public Utilities G.O. Bonds; Ohio Water Development Authority Loan
Operating Impact: None
Project Description: Redirection of downspouts from to discharge to the street to remove excess stormwater from the sanitary sewer system.

Project Name: Blueprint Clintonville 3 Area – Mainline Lining
Type: Recurring
Estimated 2018 Cost: \$12,000,000
Funding Source: Voted 2008 Sanitary Sewer 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 2018 Cost: \$9,533,774
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:

- Clintonville 3 Blueprint Area
- Hilltop 1 Blueprint Area
- Hilltop 4 Blueprint Area
- West Franklinton Blueprint Area
- Miller Kelton Blueprint Area

Project Name: Scioto Main Sanitary Pump Stations
Type: Recurring
Estimated 2018 Cost: \$665,637
Funding Source: Voted 2008 Sanitary Sewer G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Required improvements to the Scioto Main sanitary trunk and selected tributary sewers in order to fully operate facilities constructed as part of the West Columbus Local Protection Project.

Project Name: Scioto Main Sanitary Trunk Sewer Rehabilitation
Type: Recurring
Estimated 2018 Cost: \$109,272
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: Recurring
Estimated 2018 Cost: \$2,369,000
Funding Source: Voted 2008 Sanitary Sewer 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: Williams/Behm HSTS Elimination Project
Type: Recurring
Estimated 2018 Cost: \$100,000
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.

Capital Improvements Program

Project Name: Morse/ Cleveland HSTS Elimination Project
Type: Recurring
Estimated 2018 Cost: \$55,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Continuation of funding to provide centralized sanitary sewers to developed areas that are currently served by home treatment systems.

Project Name: Community Park /Maple Canyon HSTS Elimination Project
Type: Recurring
Estimated 2018 Cost: \$55,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Extension of the current sanitary sewer systems to serve the developed areas currently served by at home treatment systems.

Sanitary subtotal - \$242,735,558

Electricity

Project Name: Urban Infrastructure Recovery Fund Street Lighting Projects
Type: Recurring
Estimated 2018 Cost: \$2,162,408
Funding Source: Voted 2013 Electricity G.O. Bonds; 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
- Cleveland Avenue Decorative Street Lighting
- Milo Grogan Decorative Street Lighting
- North Central Standard Lighting
- East Main Street Decorative Lighting

Project Name: Morse Rd (Phase III & IV) System Improvements
Type: Non-recurring
Estimated 2018 Cost: \$350,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: To allow for the conversion of the north substation and to improve system reliability on the north end of the city.

Project Name: Substation Kilovolts (kV) 69 kV & 138 kV Oil Circuit Breakers (OCB) Replacement to SF6 2018
Type: Non-recurring
Estimated 2018 Cost: \$185,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replacement of obsolete 69 kV oil circuit breakers to improve the overall city electrical system.

Project Name: Advanced Metering Infrastructure (AMI) Metering
Type: Non-recurring
Estimated 2018 Cost: \$5,000,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Purchase and installation of an AMI system to support two-way automated communication between smart meters and the utility company.

Project Name: 17th Avenue Circuit Upgrade
Type: Non-recurring
Estimated 2018 Cost: \$1,412,500
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replacement of an undersized conductor to upgrade and extend the circuit to increase capacity.

Capital Improvements Program

Project Name: Dublin Avenue Substation Security Fence
Type: Non-recurring
Estimated 2018 Cost: \$658,571
Funding Source: Voted 2013 Electricity G.O. Bonds
Operating Impact: None
Project Description: Replacement of the existing fence around the Dublin Avenue Substation.

Project Name: Conversion to 3 Wire
Type: Non-recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Project to upgrade the wiring of street light underground circuits.

Project Name: Valleyview Street Lighting
Type: Non-recurring
Estimated 2018 Cost: \$443,705
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Installation of 98 overhead street lights in the Valleyview area.

Project Name: Transformer Conversions
Type: Recurring
Estimated 2018 Cost: \$2,015,710
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: Minimal
Project Description: To replace transformers currently at the end of their useful life.

Project Name: 7,200V Circuit Upgrade and Reconductoring Phase I & 2
Type: Non-recurring
Estimated 2018 Cost: \$440,273
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Upgrade the current 7,200 volts system to 14,000 volts to provide for more efficient operating.

Project Name: Circuit Upgrades (4th to Chittenden/Hudson) Circuits 7221 & 7223
Type: Non-recurring
Estimated 2018 Cost: \$833,254
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replace an undersized conductor to upgrade the system backbone.

Capital Improvements Program

Project Name: Oil Switch Replacement Program 2018
Type: Non-recurring
Estimated 2018 Cost: \$123,600
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Replace obsolete oil switches in the downtown underground duct and cable system.

Project Name: Broad Street & Noe Bixby Street Lighting
Type: Non-recurring
Estimated 2018 Cost: \$54,636
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights in the Broad Street and Noe Bixby Road area.

Project Name: Morningstar & North Forty Street Lighting
Type: Non-recurring
Estimated 2018 Cost: \$70,443
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights in the area bounded by Sullivant Avenue, Galloway Road, Corral Gate Court, and Countrie View Court.

Project Name: Cleveland Avenue Street Lighting
Type: Non-recurring
Estimated 2018 Cost: \$44,983
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights on Cleveland Avenue from Minerva Lake Road to Community Park Drive.

Project Name: Westerville Road Street Lighting
Type: Non-recurring
Estimated 2018 Cost: \$32,200
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights on Westerville Road from Johnny Appleseed Court to Bennington Road.

Project Name: Smoky Row Street Lighting
Type: Non-recurring
Estimated 2018 Cost: \$56,015
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights on Smoky Row Road from Worthington Woods Boulevard to Snouffer Road.

Capital Improvements Program

Project Name: General Engineering Services - Power
Type: Non-recurring
Estimated 2018 Cost: \$159,135
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: To provide for engineering services on an as needed basis.

Project Name: General Construction Administration and Inspection – Power
Type: Recurring
Estimated 2018 Cost: \$53,045
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Construction administration and inspection costs related to various power projects on an as needed basis.

Project Name: Circuit 30 Street Lighting Improvement Upgrade
Type: Recurring
Estimated 2018 Cost: \$200,789
Funding Source: Voted 2016 Public Utilities G.O. Bonds
Operating Impact: None
Project Description: Design for potential installation of street lights in the area west of Nelson Road, south of Avalon Place, and north of E. Broad Street east of the railroad tracks.

Electricity subtotal - \$14,596,267

Water

Project Name: Hoover Reservoir Erosion Control
Type: Non-recurring
Estimated 2018 Cost: \$200,000
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 Water Facilities
Type: Non-recurring
Estimated 2018 Cost: \$200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding to provide for unanticipated projects that may arise.

Project Name: Rinehart Public Utilities Complex Exterior Site Improvements
Type: Non-recurring
Estimated 2018 Cost: \$6,325,000
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: Distribution Maintenance Area Improvements
Type: Non-recurring
Estimated 2018 Cost: \$400,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Construction of recommended improvements to provide a safe working environment.

Project Name: Water Main Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$2,000,000
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.

Project Name: Main Street and James Road Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$1,600,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Main Street and James Road to eliminate poor fire flow capabilities and improve water quality.

Capital Improvements Program

Project Name: Arcadia Avenue Area Waterline Improvements
Type: Recurring
Estimated 2018 Cost: \$3,000,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Funding for general rehabilitation of water distribution lines to eliminate poor fire flow capabilities and poor water quality.

Project Name: South Broadleigh Road Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$4,875,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of South Broadleigh Road to eliminate poor fire flow capabilities and improve water quality.

Project Name: Noe-Bixby Road Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$5,050,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Noe-Bixby Road to eliminate poor fire flow capabilities and improve water quality.

Project Name: Sale Road Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$3,500,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Sale Road to eliminate poor fire flow capabilities and improve water quality.

Project Name: Stephen Drive Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$3,900,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Stephen Drive to eliminate poor fire flow capabilities and improve water quality.

Project Name: Union Avenue Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$3,875,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Union Avenue to eliminate poor fire flow capabilities and improve water quality.

Capital Improvements Program

Project Name: Dundee Avenue Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$3,500,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Dundee Avenue to eliminate poor fire flow capabilities and improve water quality.

Project Name: Livingston Avenue Area 12" Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$50,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Construction of a new 12" waterline along Livingston Avenue. This project is part of the overall street improvements along Livingston Avenue.

Project Name: Harrington Court Area Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Harrington Court to eliminate poor fire flow capabilities and improve water quality.

Project Name: Various Watermain Replacement Projects
Type: Non-recurring
Estimated 2018 Cost: \$2,250,000
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: Transit Pipe Replacement
Type: Non-recurring
Estimated 2018 Cost: \$1,225,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: None
Project Description: Construction of new and replacement transit watermains.

Project Name: Town Street Watermain Improvements
Type: Non-recurring
Estimated 2018 Cost: \$2,750,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: General rehabilitation of the watermain along Town Street from Fourth Street to Grant Avenue.

Capital Improvements Program

Project Name: Oakland Park/Medina Waterline Improvements
Type: Non-recurring
Estimated 2018 Cost: \$1,150,000
Funding Source: Voted 2013 Water G.O. Bonds; Water Supply Revolving Loan Account Fund
Operating Impact: Minimal
Project Description: Rehabilitation of existing waterlines and construction of new waterlines in the area of Oakland Park Avenue and Medina Avenue to eliminate poor fire flow capabilities and improve water quality.

Project Name: Central College Road 16" Waterline Extension
Type: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Extension of the current waterline along Central College Road.

Project Name: O'Shaughnessy Hydroelectric – Federal Energy Regulatory Committee (FERC)
Type: Non-recurring
Estimated 2018 Cost: \$200,000
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: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Continuing small improvements of the existing water plant.

Project Name: Hap Cremean Water Plan (HCWP) Miscellaneous Improvements
Type: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Continuing small improvements of the existing water plant.

Project Name: New Technologies in Leak Detection
Type: Non-recurring
Estimated 2018 Cost: \$100,000
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.

Capital Improvements Program

Project Name: Parsons Avenue Water Plant (PAWP) Facility Miscellaneous Improvements
Type: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Continuing small improvements of the existing water plant.

Project Name: PAWP Misc. Improvements – Lime Slake and Soda Ash Feeder
Type: Non-recurring
Estimated 2018 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Replacement of equipment that is original to the water plant and is at the end of its useful life.

Project Name: Automatic Meter Reading
Type: Non-recurring
Estimated 2018 Cost: \$26,000,000
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.

Project Name: HCWP Basin Concrete Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
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 2018 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: Non-recurring
Estimated 2018 Cost: \$2,250,000
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.

Capital Improvements Program

Project Name: Watershed Miscellaneous Improvements Facilities
Type: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
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 2018 Cost: \$550,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Design of improvements related to the boat launch facility at Griggs Reservoir.

Project Name: Hoover Dam Improvements – Part 1
Type: Non-recurring
Estimated 2018 Cost: \$650,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Design of various improvements at the Hoover Dam facility to meet current and future demands on the water system.

Project Name: PAWP Sludge Removal – Land Acquisition
Type: Non-recurring
Estimated 2018 Cost: \$4,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Purchase of a quarry for the disposal of sludge removed from the lagoons at the water plant.

Project Name: Watershed Protection Easements
Type: Non-recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Purchase of land to provide buffer zones along streams within the watershed of the supply reservoirs to limit degradation of water quality.

Project Name: O'Shaughnessy Hydroelectric Improvements
Type: Non-recurring
Estimated 2018 Cost: \$13,300,000
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.

Capital Improvements Program

Project Name: General Engineering Services – Supply Group 2018A; 2018B
Type: Recurring
Estimated 2018 Cost: \$800,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding for general engineering on various capital projects when needed.

Project Name: Mound District Booster Station 20" Discharge Line
Type: Recurring
Estimated 2018 Cost: \$3,000,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: None
Project Description: Construction of a 20" water main along Mound Street from Central Avenue to Columbian Avenue, and along Columbian Avenue from Mound Street to Sullivant Avenue.

Project Name: O'Shaughnessy Dam – 2017 Spillway Erosion Rehabilitation
Type: Recurring
Estimated 2018 Cost: \$950,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Rehabilitation of the spillway to correct erosion and implement necessary project identified in the 2015 O'Shaughnessy Hydroelectric Federal Energy Regulatory Committee (FERC) independent consultant inspection.

Project Name: Booster Station and Water Tank Improvements
Type: Recurring
Estimated 2018 Cost: \$750,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Funding for booster station and tank improvements to allow for timely replacement of mechanisms to ensure water tanks continue to operate safely.

Project Name: Water Storage Tank Painting
Type: Recurring
Estimated 2018 Cost: \$1,500,000
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.

Project Name: HCWP & DRWP Coating Projects
Type: Recurring
Estimated 2018 Cost: \$250,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: To provide for the removal of existing, deteriorated coatings and the application of a new coating to prevent further damage to various facilities.

Capital Improvements Program

Project Name: Dublin Road 30" Waterline
Type: Non-recurring
Estimated 2018 Cost: \$700,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Installation of a 30" water line from Dublin Road to the Blazer Parkway tank to improve water distribution.

Project Name: HCWP Flocculation and Lime Basin Equipment Reconstruction
Type: Non-recurring
Estimated 2018 Cost: \$200,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Purchase and installation of equipment of the settling basins and flocculation tanks.

Project Name: HCWP Sludge Disposal Line Improvements
Type: Non-recurring
Estimated 2018 Cost: \$1,500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Improvements to a portion of the sludge disposal line at the water plant.

Project Name: HCWP Intake Structure & Low Head Dam Rehabilitation
Type: Non-recurring
Estimated 2018 Cost: \$500,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Engineering services to assess needed improvements to assure continued functionality of critical structures.

Project Name: HCWP Wash Water Tank Interior & Exterior Coating
Type: Non-recurring
Estimated 2018 Cost: \$600,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Recoating of the interior and exterior of the steel water storage tank.

Project Name: PAWP HVAC Improvements
Type: Non-recurring
Estimated 2018 Cost: \$375,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Minimal
Project Description: Engineering and design of HVAC improvements at PAWP.

Capital Improvements Program

Project Name: Large Diameter Valve Replacement
Type: Non-recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Replacement of critical large diameter valves at various locations of the water distribution system.

Project Name: Watershed Facilities Improvements
Type: Non-recurring
Estimated 2018 Cost: \$250,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Design of necessary improvements of aging watershed facilities.

Project Name: Fire Hydrant Replacements
Type: Recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Rehabilitation and replacement of fire hydrants to ensure there is adequate volumes for fire protection.

Project Name: General Engineering Services – Distribution Group
Type: Recurring
Estimated 2018 Cost: \$1,000,000
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 2018 Cost: \$350,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Design services for the replacement nine well pumps that are at the end of their useful life.

Project Name: DRWP Ultraviolet (UV) Disinfection
Type: Non-recurring
Estimated 2018 Cost: \$22,000,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Undetermined at this time
Project Description: To provide for the design and construction of ultraviolet disinfection in the water treatment process.

Capital Improvements Program

Project Name: HCWP UV Disinfection
Type: Non-recurring
Estimated 2018 Cost: \$17,000,000
Funding Source: Water Supply Revolving Loan Account Fund
Operating Impact: Undetermined at this time
Project Description: To provide for the addition of ultraviolet disinfection in the water treatment process.

Project Name: General Architectural Services
Type: Recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Architectural and design services on an as needed basis for various capital improvement projects.

Project Name: General Construction Administration and Construction Inspection
Type: Recurring
Estimated 2018 Cost: \$800,000
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: Recurring
Estimated 2018 Cost: \$300,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Design and engineering services to determine projects necessary to combat erosion along Hoover Reservoir.

Project Name: Professional Construction Management (PCM) Part II
Type: Recurring
Estimated 2018 Cost: \$8,300,000
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 2018 Cost: \$1,150,000
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.

Capital Improvements Program

Project Name: Security & Emergency Preparedness – Division of Water
Type: Recurring
Estimated 2018 Cost: \$100,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: Undetermined at this time
Project Description: Development of a security and emergency preparedness program to better protect, prepare for, respond to, and recover from disasters.

Project Name: Land Stewardship Update
Type: Recurring
Estimated 2018 Cost: \$1,000,000
Funding Source: Voted 2013 Water G.O. Bonds
Operating Impact: None
Project Description: Redesign of the current land stewardship program and establishment of specifications to address identified issues and concerns.

Project Name: Department of Public Utilities (DPU) Hazardous Energy Control – Division of Water
Type: Non-recurring
Estimated 2018 Cost: \$150,000
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 2018 Cost: \$1,650,000
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.

Water subtotal - \$162,975,000

Public Utilities Total - \$442,574,355

2018 Capital Improvement Budget Total - \$567,754,355

Significant Non-Recurring Projects

Police Substation 1

Department: Public Safety
Construction Management

Planning Area: Northland

Start Date: May 2018

Est. Completion Date: April 2019

Est. Cost: \$5,000,000

Est. Operating Impact: To be determined

Police Substation 1 is an important step in the modernization of facilities for the Division of Police and their 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. Finalized design plans are currently underway.

Fire Station #35

Department: Public Safety
Construction Management

Planning Area: Far East

Start Date: March 2018

Est. Completion Date: May 2019

Est. Cost: \$9,000,000

Est. Operating Impact: \$3,500,000 increase

As the population of the City of Columbus continues to grow, it was determined that the addition of a fire station was necessary to provide for the safety and well-being of citizens. On the far east side of the city, construction of a new fire station located at 711 Waggoner Road is scheduled to begin during the spring of 2018. The addition of a fire station will aid in reducing response times. This fire station will include four apparatus bays to house medic and fire engine vehicles.



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

Poindexter Village

Department: Development
Public Service
Public Utilities

Planning Area: Near East

Start Date: 2014

Est. Completion Date: 2019

Est. Cost: \$24,000,000

Est. Operating Impact: Minimal

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

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

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



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

American Addition

Department: Development
Public Service

Planning Area: South Linden

Start Date: June 2011

Est. Completion Date: 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 Village – Wyandot Lodge

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

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



Architectural rendering of the finished Indian Village – Wyandot Lodge facility

Lashutka Event Center

Department: Recreation and Parks
Planning Area: West Olentangy
Start Date: December 2015
Est. Completion Date: May 2017
Est. Cost: \$2,160,000
Est. Operating Impact: \$26,000 annual increase

Completed in spring of 2017, the now renamed Lashutka Event Center consisted of the renovation and expansion of the approximately 200 year old historic structure. The renovation allowed the building to function as a facility and is now available for public rental. The facility features a large event room that can accommodate approximately 50 people at tables and chairs as well as a meeting room that will accommodate approximately 15 people. In addition to the facility, there is also an outdoor patio space with views of Griggs Reservoir. An additional \$700,000 of capital funding for this project was available from the Public Utilities department. The Lashutka Event Center was dedicated on May 19, 2017.



Lashutka Event Center, past and present.

Indian Mound Recreation Center

Department: Recreation and Parks
Planning Area: Far South
Start Date: Spring 2018
Est. Completion Date: Spring 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 start during the spring of 2018.



Photograph of the current Indian Mound Recreation Center. This facility is scheduled to be updated and expanded beginning in 2018.

Linden Community Center and Park Renovation

Department: Recreation and Parks
Planning Area: North Linden
Design Start Date: January 2018
Completion Date: Spring 2020
Est. Engineering Cost: \$ 1,500,000
Est. Construction Cost: \$15-20 million pending the final project scope
Est. Operating Impact: \$317,500 annual increase

This project includes the replacement of the facility which will double the size of the recreation center by 21,000 sq. ft., for a total of 40,000 sq. ft. Center Improvements include a full size gymnasium, fitness center, game room, office, restrooms, kitchen, lobby, and partnership spaces.

Along with the improvements to the center, the surrounding 19.5 acre park will be renovated with a new fishing pond, loop walk, play areas, parking, lighting, and landscape as determined through public meetings.



Photograph of the existing Linden Community Center to be replaced.

Franklin Park Cascades

Department: Recreation and Parks
Planning Area: Near East
Start Date: Summer 2017
Est. Completion Date: Fall 2018
Est. Cost: \$1,500,000
Est. Operating Impact: minimal

This project will be done in two phases, the first in construction to replace the existing pond pumps in a new above ground housing. This will allow the pumping of water from the lower pond to the upper pond. Phase two will be the study and analysis of the existing cascades after the water is restored to inventory leaks and conditions. The cascades between the ponds will be removed and restored into a natural, sustainable water flow for the future of the park.



Photograph of the existing cascade between ponds.

Hamilton Road “S” Curve

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

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



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

Joyce Avenue Rehabilitation

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

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

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



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

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.

North High Street Improvements – Phase 1 – Convention Center to Goodale Boulevard

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

This project consists of replacing the sidewalk and curb on the west side of North High Street between Convention Center Way and Goodale Boulevard; installing landscaping planter beds and street trees; resurfacing North High Street; installing brick crosswalks at all signalized intersections; installing traffic signal facilities and other traffic control improvements; replacing street and pedestrian light fixtures; relocating storm sewer inlets; and replacing the existing 12" waterline in North High Street between Vine Street and Spruce Street.



Replacing curb and sidewalk along N. High Street.

West Broad Street Improvements – Scioto Peninsula

Department: Public Service
Planning Area: Franklinton
Start Date: May 2016
Est. Completion Date: October 2017
Est. Cost: \$7,000,000
Est. Operating Impact: Minimal

This project consists of improvements to W. Broad Street from Starling Street to Front Street. Sidewalks will be reconstructed and widened to provide for additional streetscape elements including a buff wash finish concrete walk, granite curb, street trees, planters, and lighting. Bike lanes will be installed along the full limits of W. Broad Street. Two planted medians will be installed, each providing a pedestrian refuge area. The eastern crossing will include the installation of a Pedestrian Hybrid Beacon. The traffic signal at W. Broad and Belle will be upgraded to a decorative mast arm. New water line, street lighting, and storm sewer facilities will be installed with the project. All aerial facilities will be relocated underground. Broad Street will be milled and resurfaced from the east bridge approach to 50' west of Wall Street.



Roadwork preparation along W. Broad Street in the Scioto Peninsula area.

Alum Creek Drive Improvements – Frebis to Refugee

Department: Public Service
Planning Area: Near South
Start Date: August 2017
Est. Completion Date: June 2019
Est. Cost: \$17,000,000
Est. Operating Impact: Minimal

The work for this project consists of the improvement of 1.28 miles of Alum Creek Drive from Performance Way to Integrity Drive North. Improvements include the reconstruction and widening of the existing two lane road to a five lane road with a two-way center turn lane. The project also includes a shared use path, sidewalk, street lighting, traffic signals, storm sewers, waterline work power relocation, and the replacement of the existing bridge deck over SR 104.



Photograph of construction along Alum Creek Drive.

Fairwood Ave Sidewalks– Wayland Dr to Watkins Rd

Department: Public Service
Planning Area: Far South
Start Date: August 2017
Est. Completion Date: November 2017
Est. Cost: \$800,000
Est. Operating Impact: Minimal

The work for this project consists of roadway, pedestrian, and storm improvements on Fairwood Avenue from Wayland Drive to Watkins Road. A sidewalk will be installed on the east side of Fairwood Avenue from Wayland Drive to Watkins Road. Fairwood Avenue will be resurfaced from just north of Augmont Avenue to the intersection of Wayland Drive and Quaker Road. There will be storm upgrades within the limits of the resurfacing work to address drainage issues.



A section of newly installed sidewalks along Fairwood Ave.

SWWTP Biosolids Land Application Facility

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

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



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

Combined Sewer Overflow (CSO) Reduction Improvements

Department: Public Utilities – Sanitary
Planning Area: Near East
Start Date: August 2017
Est. Completion Date: December 2017
Est. Cost: \$1,842,000
Est. Operating Impact: None

To reduce CSO's at the WWTF's, facility improvements at the Alum Creek Storm Standby Tank include the following: renovate electrical service, renovate ventilation system, building masonry repairs, roof replacement, hydraulic controls and SCADA improvements. Funding for this project was provided through a WPCLF loan.



Photograph of the below ground storage tank at Alum Creek.

Dublin Avenue Substation Control/Switchgear Building

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

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



Night installation of the new foundation for the Dublin Avenue Substation.

DRWP Capacity Increase Project

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

Broken into five phases, the DRWP Capacity Increase project includes the construction of a new electrical substation, 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 2018, the plant capacity will increase to 80 million gallons of water per day and provide new treatment processes that will enhance water quality and increase treatment reliability.



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

HCWP Treatment Improvements Project

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

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



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

PAWP Treatment Upgrades Project

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

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



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