

2020 – 2024 CAPITAL IMPROVEMENTS PROGRAM

Adopted by Ordinance
No. 38-19

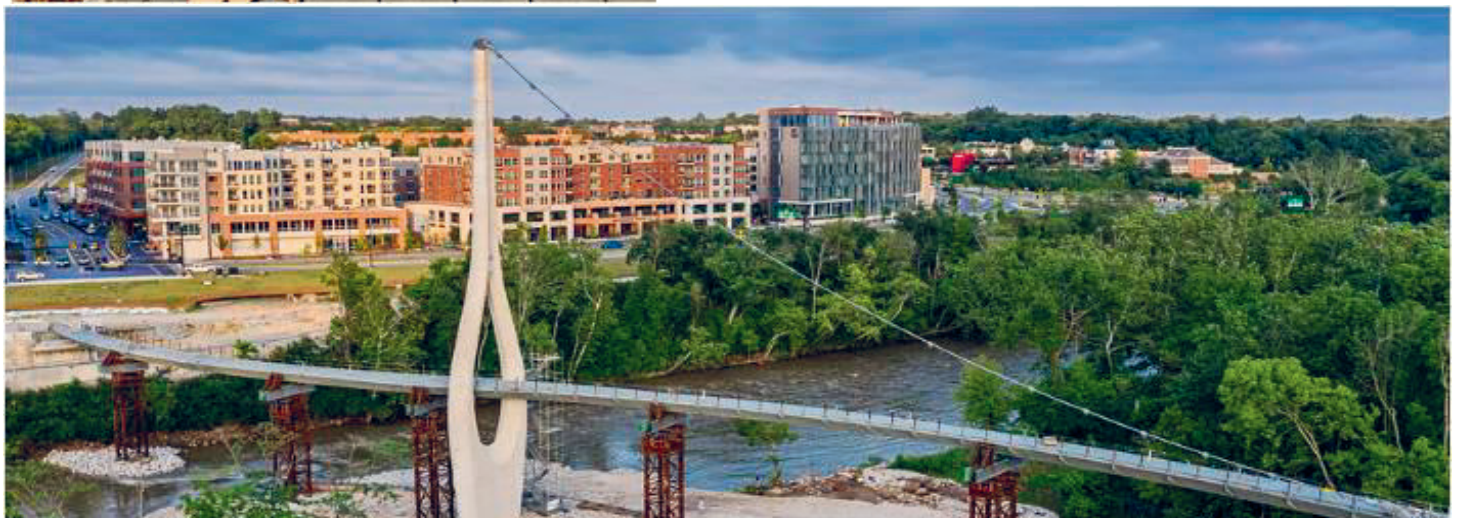


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1 | Capital Budget Process



ANNUAL CAPITAL IMPROVEMENTS PROGRAM BUDGET PROCESS

The City of Dublin has implemented an annual schedule for the preparation and adoption of the Five-Year Capital Improvements Program (CIP). The following timeframes are key elements in the annual budget calendar for approval of the CIP 2020-2024:

TARGET TIMEFRAME (2019)	ELEMENT
First Quarter	City Council goal setting session.
January 25	CIP kick-off memo distributed to City Staff.
March 1	Staff submittal deadline for CIP project proposal forms to City Manager and Director of Finance.
April 3	City Administration's debt presentation to City Council.
April 2, 3, 5, and, April 22	City Manager and Director of Finance administrative review of all CIP requests with Department/Division Directors.
May 13	City Council work session for summarizing priorities for the 2020-2024 CIP.
June 17	City Council work session to review the proposed CIP (i.e. Project discussion and gathering of City Council feedback).
August 5	City Council work session to review the proposed CIP (with revisions as directed from the June 17 work session).
August 12	First reading of Ordinance to adopt the 2020-2024 CIP.
August 26	Second reading of Ordinance to adopt the 2020-2024 CIP.
By December 31	Adoption of Annual Operating Budget and related appropriations Ordinance by City Council.

The CIP and the Annual Operating Budget are two critical documents prepared annually. The relationship between these two documents is summarized in the following points:

Five-Year CIP

- Represents a long-term financial plan, including funding sources.
- Establishes priorities and serves as a planning document or blueprint for the City's investment in capital infrastructure.
- Provides a breakdown of major project costs and phasing.
- Does not appropriate money. The Operating Budget and the annual appropriation ordinance are the documents which authorize the actual funding authority for the capital projects.

Operating Budget

- Appropriates money to implement the first year of the Five-Year CIP.
- Appropriates money to implement a "phase of a major, multi-year project."
- Appropriates money for capital maintenance expenditures, including those of a continuing nature (i.e. fleet and equipment replacement, computers, etc.)



RECORD OF ORDINANCES

BARRETT BROTHERS - DAYTON, OHIO

Form 62205

Ordinance No. 38-19

Passed _____, _____

**AN ORDINANCE ADOPTING THE 2020-2024
FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM**

WHEREAS, Section 8.03(a) of the Revised Charter requires the City Manager to prepare and submit to City Council a five-year capital plan in accordance with the annual budget calendar as authorized by City Council; and

WHEREAS, City Council has received and reviewed the Five-Year Capital Improvements Program (CIP) for the years 2020-2024; and

WHEREAS, the CIP represents a long-term financial plan, which establishes priorities, identifies project costs and phasing, identifies funding sources, and serves as a planning document for capital improvements; and

WHEREAS, the Administration has incorporated in the attached CIP all modifications as requested by City Council as a result of the CIP budget workshops.

NOW, THEREFORE, BE IT ORDAINED by the Council of the City of Dublin, State of Ohio, 17 elected members concurring, that:

Section 1. The 2020-2024 Five-Year Capital Improvements Program attached as an Exhibit be, and hereby is, approved.

Section 2. This Ordinance shall take effect and be in force on the earliest date permitted by law.

Passed this 26th day of August, 2019


Mayor - Presiding Officer

ATTEST:


Clerk of Council

2 | Financial Guidelines



FINANCIAL GUIDELINES

The Five-Year Capital Improvements Program (CIP) establishes the City's blueprint for investment in its capital infrastructure. This document is used as a tool to help ensure the City's long and short-term capital investments are made in the context of careful consideration of the City's needs as well as the resources available to fund all projects.

The financial guidelines used in the preparation of the CIP will provide assurance the City can meet, in a full and timely manner, both our debt service obligations and all other obligations competing for the available resources. It is our objective to complete as many needed capital improvement projects as financially possible while maintaining flexibility and the ability to adapt to changes as they occur.

There are several key guidelines that the Administration utilized in determining the City's fiscal capacity to complete capital projects over the next five years. These are summarized as follows:

- The five-year plan will be updated annually in accordance with the annual budget calendar.
- 25 percent of the City's two percent income tax revenue shall be made available to fund capital improvements. This allocation is in accordance with Ordinance No. 17-87 and the ballot language approved by the voters in November 1987.
- Of the 25 percent of the total income tax revenues which are utilized for capital improvements, 60 percent of that amount will be allocated to fund long-term debt, and 40 percent to fund projects and capital expenses on a cash basis. This allocation is in accordance with Ordinance No. 31-16, the City's adopted debt policy, and Ordinance No. 37-19 authorizing a modification to the debt policy. The reasons for this guideline are:
 - a) It is important to stress that funding projects with long-term debt obligates the use of public funds for the next 20 years in most cases. The more long-term debt which is incurred now significantly reduces the options available to future City Councils to fund needed projects.
 - b) The City has determined that paying cash for projects where financially possible (pay-as-you-go financing) will increase our flexibility in the future. In utilizing pay-as-you-go financing, revenue projections and estimated fund balances will be reviewed and evaluated to assure that sufficient reserves are maintained.
 - c) It is not economical to issue debt for some projects.
 - d) The estimated life of some projects does not meet the criteria to issue long-term debt.
- The City's philosophy for projecting income tax revenues is to be conservative. The City's largest revenue source for operations is income tax revenue. This source comprises over 90% of the City's General Fund operating revenues. Therefore, it is one of the City's key economic indicators that is reviewed when determining the level of growth for the upcoming year.



FINANCIAL GUIDELINES

- The General Fund balance through September 30, 2019 is \$60,361,123. The level of fund balance is fluctuating as we continue funding major improvements throughout the City. We will continue to make significant advances from the General Fund to various Tax Increment Financing (TIF) funds for infrastructure improvements throughout the City. This allows the City to take advantage of opportunities as they arise and fund infrastructure improvements before TIF revenues are generated. The expectation is that these advances will be repaid to the General Fund over the 30-year life of each TIF.
- Since a portion of the debt outstanding and future capital improvements are utility (water and sewer) related, the systems' user fees and capacity charges (tap permits) will continue to be evaluated. Water related improvements will be programmed based on the Water Fund's available cash reserves and estimated annual revenues. Every effort will be made to structure the debt service obligations for utility infrastructure improvements in such a manner as to utilize the Sewer Fund and Water Fund available cash reserves and estimated annual revenues to the fullest and thereby reducing or eliminating the dependency on income tax revenues. The goal in the Water and Sewer funds has been to maintain fund balances equal to approximately 25% of the total value of each system.
- For 2020 (tax collection year 2019), approximately 80% of the property tax revenue from the City's "inside millage" will be allocated to the Capital Improvements Tax Fund, with approximately 20% allocated to the Parkland Acquisition Fund. The property tax revenue from the City's "inside millage" (1.75 mills) was allocated 100% to the Parkland Acquisition Fund from 2001-2006. From 2007-2009, the City began allocating .95 mills of the total 1.75 mills to the Parkland Acquisition Fund with the remaining .80 mills allocated to the Capital Improvements Tax Fund. As part of the 2010-2014 CIP process, Council approved allocating 1.40 mills to the Capital Improvements Tax Fund and .35 mills to the Parkland Acquisition Fund. City Council has continued to approve, with each year's CIP, the same allocation. This allocation is reviewed during the CIP process each year and can be reallocated if City Council deems it appropriate.
- Pursuant to the City's Debt Policy, the maximum amount of debt service including existing TIF supported and proposed new debt shall not exceed 90% of the allocation of income tax revenue allocated to pay debt service. This limitation provides an additional buffer in the event that income tax revenues fall short of projections or that an unexpected increase in interest rates occurs.



FINANCIAL GUIDELINES

- As a matter of general policy, the City will do the following in order to be able to fund additional projects needed to serve the citizens of Dublin:
 - a) Pursue federal, state and local assistance in the form of grants, low interest loans, cost-sharing, etc.
 - b) Utilize assessment procedures for projects which have a reasonably well defined group of beneficiaries and which legally lend themselves to this type of financing.
 - c) Look increasingly at ways to obtain revenue through user fees as a means to fund capital projects or as a way to free-up other income tax dollars so that they can be used to fund capital projects.
 - d) Utilize, where appropriate, economic development incentives such as tax increment financing.
- As projects are proposed for funding, the statutory debt limitations will be reviewed to ensure compliance.

The five-year program provides for significant capital programming. The programming of projects needs to be distributed over the five-year period so that as we update our capital program each year, we can evaluate current conditions, including the capital needs, revenue growth, and respond to new priorities.



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3 | Revenue Projections



REVENUE PROJECTIONS

The most significant funding source for the Five-Year Capital Improvements Program (CIP) is the City's income tax revenue. Projecting income tax revenues for the five-year period is a significant element in determining resources available for capital programming. The Financial Guidelines in Section 2 outline the financial guidelines used in determining the City's fiscal capacity to complete capital projects.

In addition to the income tax revenues, the projects associated with the water and sewer systems will be funded in whole or in part by revenues from those systems (i.e. user charges and tap permit fees).

The following pages provide projections for income tax revenues and projections for the water and sewer system operations. The assumptions used for the projected water and sewer system operations are included. Section 4 reflects the debt financed projects that are also supported by service payments from tax increment financing districts and property tax revenue from "inside millage."



INCOME TAX REVENUE

	2018	2019	2020	2021	2022	2023	2024
Income Tax Revenue*	\$ 88,120,215	\$ 87,535,000	\$ 89,285,700	\$ 90,178,557	\$ 91,080,343	\$ 91,991,146	\$ 92,911,057
Revenue for capital projects (25% of income tax revenue)	\$ 22,030,054	\$ 21,883,750	\$ 22,321,425	\$ 22,544,639	\$ 22,770,086	\$ 22,997,786	\$ 23,227,764
¹ Revenue available for cash capital projects	\$ 8,812,022	\$ 8,753,500	\$ 8,928,570	\$ 9,017,856	\$ 9,108,034	\$ 9,199,115	\$ 9,291,106
² Revenue available for debt financed projects	\$ 13,218,032	\$ 13,130,250	\$ 13,392,855	\$ 13,526,784	\$ 13,662,051	\$ 13,798,672	\$ 13,936,659

* Income tax revenue reflects an estimated increase/decrease over the previous year as follows:

2019 - Based on a <0.67%> decrease over 2018 actual collections

2020 - 2%

2021 - 1%

2022 - 1%

2023 - 1%

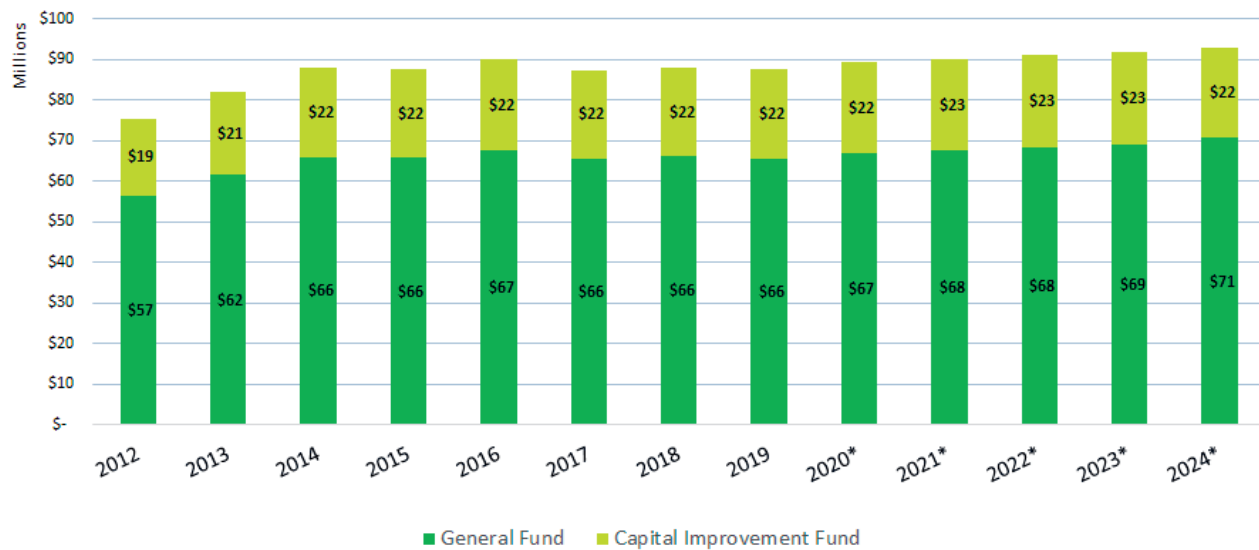
2024 - 1%

¹ 40% of the 25% designated for capital improvements is further designated for cash capital projects pursuant to the City of Dublin Debt Policy.

² 60% of the 25% designated for capital improvements is further designated to retire debt issued for capital projects pursuant to the City of Dublin Debt Policy.



INCOME TAX REVENUE PROJECTIONS



*Denotes estimated revenue



SEWER FUND | STATEMENT OF PROJECTED REVENUE, EXPENSES, AND FUND BALANCE

	2018	2019	2020	2021	2022	2023	2024
Revenues:							
User charges (Surcharge)	\$ 2,314,173	\$ 1,750,000	\$ 2,187,250	\$ 2,205,908	\$ 2,205,908	\$ 2,205,908	\$ 2,205,908
Tap fees (Capacity Charge)	604,095	510,000	600,000	600,000	600,000	600,000	600,000
Interest	99,475	50,000	75,000	75,000	75,000	75,000	75,000
Other	-	-	-	-	-	-	-
Bond Proceeds/Other Proceeds	175,629	-	-	-	-	-	-
Other Revenue	-	-	-	-	-	-	-
Income tax subsidy	-	-	-	-	-	-	-
	<u>3,193,371</u>	<u>2,310,000</u>	<u>2,862,250</u>	<u>2,880,908</u>	<u>2,880,908</u>	<u>2,880,908</u>	<u>2,880,908</u>
Personal Services - Engineering	158,015	166,320	169,646	173,039	176,500	180,030	183,631
Contractual Services - Engineering	218,690	550,501	561,511	572,742	584,196	595,880	607,798
Personal Services - Streets	688,028	772,167	787,610	803,363	819,430	835,818	852,535
Contractual Services - Streets	168,664	276,877	282,415	288,063	293,824	299,701	305,695
Supplies - Streets	12,705	16,461	16,791	17,127	17,469	17,818	18,175
Other	5,784	-	-	-	-	-	-
	<u>1,251,886</u>	<u>1,782,327</u>	<u>1,817,974</u>	<u>1,854,333</u>	<u>1,891,420</u>	<u>1,929,248</u>	<u>1,967,833</u>
Capital expenditures (cash funded only)	801,849	1,412,697	320,000	\$ 2,095,000	\$ 250,000	\$ 550,000	\$ 250,000
Debt service:							
USWBI	671,072	-	-	-	-	-	-
2009 issue	150,200	148,625	150,738	148,263	150,513	152,063	152,263
2012 issue	170,750	168,550	170,725	172,200	168,000	168,725	169,900
2015 issue	184,969	183,069	186,169	184,169	186,669	186,419	185,919
2017 issue	103,800	102,800	100,300	103,300	101,100	100,000	103,900
2018 issue	-	78,800	78,800	78,800	78,800	78,800	78,800
2019 issue	-	45,000	45,001	61,674	105,138	108,888	107,238
2020 issue	-	-	486,400	486,400	486,400	486,400	486,400
2022 issue	-	-	-	-	120,000	120,000	120,000
2024 issue	-	-	-	-	-	-	120,000
	<u>1,280,791</u>	<u>726,844</u>	<u>1,218,132</u>	<u>1,234,805</u>	<u>1,396,619</u>	<u>1,401,294</u>	<u>1,524,420</u>
Net cash (required) provided	(141,156)	(1,611,868)	(493,857)	(2,303,230)	(657,132)	(999,635)	(861,345)
Advances-out	-	-	-	-	-	-	-
Advances-in	-	-	-	-	-	-	-
Transfers-out	-	-	-	-	-	-	-
Transfers-in	-	-	-	-	-	-	-
Transfers In (Capital Fund - extensions)	400,000	200,000	-	-	-	-	-
Transfers-in (General Fund - extensions)	800,000	200,000	200,000	200,000	200,000	200,000	200,000
Beginning balance	<u>4,608,939</u>	<u>5,667,784</u>	<u>4,455,915</u>	<u>4,162,058</u>	<u>2,058,828</u>	<u>1,601,696</u>	<u>802,061</u>
Ending balance	<u>\$ 5,667,784</u>	<u>\$ 4,455,915</u>	<u>\$ 4,162,058</u>	<u>\$ 2,058,828</u>	<u>\$ 1,601,696</u>	<u>\$ 802,061</u>	<u>\$ 140,715</u>



SEWER FUND ASSUMPTIONS

Projected User Charges and Capacity Charges (Tap Fees)

Assumptions:

- A comprehensive sewer and water rate study is currently underway by an outside consulting firm specializing in this type of analysis. The City's last comprehensive rate study was in the early 1990's. The study is anticipated to be concluded during the fourth quarter of 2019. Once this study is completed, revised sewer and water rate fees will be forwarded to City Council for their review and approval.
- Revenues based on estimated Equivalent Residential Unit (ERUs) and fees as authorized by Ordinance No. 72-17.
- Capacity charges for all tap sizes were increased 5% effective January 1, 2013 as authorized by Ordinance 64-12.
- The average number of ERUs projected for 2019 is consistent with 2018, which reflects a decrease of approximately 75 units over 2017 which was the highest growth year in the past five years. This projection is based on the number of residential building permits issued in 2017 for new units and the new development occurring throughout the City.
- The average number of ERUs projected for 2020 – 2024 is the total of the estimated previous year's average number of ERUs at the beginning of the year and the previous year's estimated ERU growth.
- The estimated ERU growth for 2020 – 2024 ranges from 175 ERUs in 2018 to 185 ERUs per year in 2020 - 2024.

Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance

Assumptions:

- Revenues for user charges and tap fees are based on the schedule of Projected User Charges and Capacity Charges.
- Debt programmed is for the investment in sewer infrastructure.
- Funding beyond 2019 is not yet programmed to reflect continued extension of sanitary sewer lines to unserved areas throughout the City of Dublin. During the 2019-2023 CIP workshops, City Council seemed willing to consider extending the implementation plan beyond 15 years. A revised implementation plan will be brought forward for City Council's consideration in conjunction with the water/sewer rate study to be completed during 2019. The outcome of the rate study should help influence the schedule of extensions. Funding for the extensions will come from tap fees generated by new users to the system, an annual transfer from the Capital Improvement Tax Fund, debt service when needed, and an annual transfer from the General Fund, if necessary.



SEWER FUND ASSUMPTIONS

Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance (Continued)

- The 2012 debt service obligation provides funding to retire the debt on the \$2,540,000 in long-term debt for relining sanitary sewer lines and other sanitary sewer improvements.
- The 2014 debt service obligation provides funding to retire the debt on the \$1,880,000 in long-term debt for relining sanitary sewer lines and other sanitary sewer improvements.
- The 2015 debt service obligation provides funding to retire the debt on the \$2.5 million in long-term debt for relining sanitary sewer lines and other sanitary sewer improvements.
- The 2017 debt service issue is based on the current plan to issue \$1,380,000 in long-term debt for sanitary sewer improvements and extensions to unserved areas.
- The 2018 debt service issue is based on the current plan to issue \$1,395,000 in long-term debt for sewer lining, manhole rehabilitation, and extensions to unserved areas. (Ordinance 67-18 approved on October 22, 2018).
- The 2019 debt service issue is based on the current plan to issue \$6,080,000 in long-term debt for sanitary sewer improvements and extensions to unserved areas, as well as for the Deer Run sewer upsizing project for Dumfries Court.
- The 2021 debt service issue is based on the current plan to issue \$1,500,000 in long-term debt for sanitary sewer extensions to unserved areas and additional improvements to Deer Run.

While the Statement of Projected Revenue, Expenses and Changes in Sewer Fund Cash Balance shows debt being issued in years 2019 and 2021, Staff will evaluate the timing of debt issuances and to the extent possible, incorporate multiple projects in with a single debt issuance in order to minimize issuance costs.

The Statement of Project Revenue, Expenses and Changes in Sewer Fund Balance was prepared through the year 2024. Using the before mentioned assumptions, sufficient revenue to maintain a “positive” cash balance will be available through 2024, although the projected balance will not meet the goal of 25% of the historical value of the system assets. The rate of growth, the user fees and the capacity charges will continue to be evaluated to determine the need to adjust the rates into the future.



WATER FUND | STATEMENT OF PROJECTED REVENUE, EXPENSES, AND FUND BALANCE

	2018	2019	2020	2021	2022	2023	2024
Revenues:							
Surcharge	\$ 658,838	\$ 550,000	\$ 561,000	\$ 572,220	\$ 583,664	\$ 595,338	\$ 607,244
Capacity Charges	677,316	260,000	265,200	270,504	275,914	281,432	287,061
Interest	262,757	150,000	153,000	156,060	159,181	162,365	165,612
Fire hydrant permits	3,680	2,500	2,550	2,601	2,653	2,706	2,760
	1,602,592	962,500	981,750	1,001,385	1,021,413	1,041,841	1,062,678
Expenses:							
Personal Services - Engineering	70,877	119,830	122,227	124,671	127,165	129,708	132,302
Contractual Services - Engineering	260,355	515,731	526,046	536,567	547,298	558,244	569,409
Personal Services - Streets	162,966	186,707	190,441	194,250	198,135	202,098	206,140
Contractual Services - Streets	270,611	353,456	360,525	367,735	375,090	382,592	390,244
Supplies - Streets	22,973	19,092	19,474	19,864	20,261	20,666	21,079
	787,783	1,194,817	1,218,713	1,243,087	1,267,949	1,293,308	1,319,174
Capital expenditures	623,997	1,488,646	980,000	465,000	600,000	75,000	-
Debt service:							
2009 issue	140,962	134,463	136,850	134,600	137,100	138,950	139,550
2012 issue	156,463	159,413	156,788	158,563	159,613	160,513	156,913
	297,425	293,876	293,638	293,163	296,713	299,463	296,463
Net cash (required) provided	(106,612)	(2,014,838)	(1,510,601)	(999,865)	(1,143,249)	(625,930)	(552,959)
Beginning balance	12,771,513	12,664,901	10,650,063	9,139,462	8,139,597	6,996,348	6,370,418
Ending balance	\$ 12,664,901	\$ 10,650,063	\$ 9,139,462	\$ 8,139,597	\$ 6,996,348	\$ 6,370,418	\$ 5,817,458



WATER FUND ASSUMPTIONS

Projected User Charges and Capacity Charges (Tap Fees)

Assumptions:

- A comprehensive sewer and water rate study is currently underway by an outside consulting firm specializing in this type of analysis. The City's last comprehensive rate study was in the early 1990's. The study is anticipated to be concluded during the fourth quarter of 2019. Once this study is completed, revised sewer and water rate fees will be forwarded to City Council for their review and approval.
- Revenues based on estimated ERUs and fees as authorized by Ordinance No. 75-15.
- Capacity charges for all tap sizes were increased 5% effective January 1, 2013 as authorized by Ordinance 64-12.
- The average number of ERUs projected for 2019 is consistent with 2018, which reflects a decrease of approximately 75 units over 2017 which was the highest growth year in the past five years. This projection is based on the number of residential building permits issued in 2017 for new units and the new development occurring throughout the City.
- The average number of ERUs projected for 2020 – 2024 is the total of the estimated previous year's average number of ERUs at the beginning of the year and the previous year's estimated ERU growth.
- The estimated ERU growth for 2020 – 2024 ranges from 175 ERUs in 2018 to 185 ERUs per year in 2019 - 2023.
- Project that at 12/31/2024, fund balances will be 10.9% of total system value at 12/31/2018.

Statement of Projected Revenue, Expenses and Changes in Water Fund Cash Balance

Assumptions:

- Revenues for user charges and tap fees based on schedule of Projected User Fees and Projected Capacity Charges.
- Salaries/Wages and Benefits/Uniforms are included for the water hydrant program.
- The 2012 debt service obligation provides funding to retire the debt on the \$2,360,000 in long-term debt issued for the Dublin Road water tower.
- The 2014 debt service obligation provides funding to retire the debt on the \$1,710,000 in long-term debt issued for the Darree Fields water tower.
- Funding has been programmed during the five-year period to paint the Tartan West Tank. Funding for an inspection has been programmed in 2020. Depending on the results of the inspection, it is possible that the re-painting work will be pushed beyond the five-year program period.



WATER FUND ASSUMPTIONS

Statement of Projected Revenue, Expenses and Changes in Water Fund Cash Balance (Continued)

- Funding has been programmed during the five-year period for the Bright Road 12" water main extension.
- Funding beyond 2019 is not yet programmed to continue extensions of water lines to unserved areas throughout the City of Dublin. During the 2019-2023 CIP workshops, City Council seemed willing to consider extending the implementation plan beyond 15 years. A revised implementation plan will be brought forward for City Council's consideration in conjunction with the water/sewer rate study to be completed in 2019. The outcome of the rate study should help influence the schedule of extensions. Funding for the extensions will come from tap fees generated by new users to the system, an annual transfer from the Capital Improvement Tax Fund, and an annual transfer from the General Fund, if necessary.

The Statement of Projected Revenue, Expenses and Changes in Water Fund Cash Balance was prepared through the year 2024. Using the above assumptions, sufficient revenue will be available, as well as maintaining a sufficient reserve, throughout the life of existing and proposed debt obligations. The rate of growth and the user fees and capacity charges will continue to be evaluated annually.



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4 | Municipal Debt



MUNICIPAL DEBT

This section provides information on the long-term debt obligations projected to be outstanding at December 31, 2019, the projected long-term income tax supported debt, a calculation of the long-term debt capacity and a recap of the annual debt service obligations.

The Projected Long-Term Debt Schedule reflects that the estimated principal outstanding at the end of each year is within the recommended maximum amount. The Debt Service Payments Due (Income Tax supported debt) schedule reflects that the total actual and estimated debt service obligations each year are within the actual and projected income tax revenue available for debt retirement. The difference between the two, or the "surplus", will be used to "buy down" other capital project costs and issue less debt or be used to fund other capital projects. A schedule of debt service payments that are supported by sources other than income tax revenues is also included.



MUNICIPAL DEBT

LONG-TERM DEBT OBLIGATIONS | PROJECTED SCHEDULE AS OF
DECEMBER 31, 2019

UNVOTED G.O. BONDS	DATE OF ISSUE	DATE OF MATURITY	ORIGINAL AMOUNT	O/S PRINCIPAL	PAID FROM INCOME TAXES		
					GENERAL FUND	CAPITAL IMPROVEMENT TAX FUND	OTHER SOURCES ¹
Avery-Muirfield Interchange	09/01/99	12/01/19	8,316,788	570,000	-	570,000	-
Rings Road Improvements	12/01/00	12/01/20	3,535,000	531,134	-	-	531,134
Arts Facility Acquisition	12/01/00	12/01/20	1,360,000	201,832	-	-	201,832
Arts Facility Renovation	12/01/00	12/01/20	755,000	112,601	-	-	112,601
Perimeter Drive Extension	12/01/00	12/01/20	3,940,000	592,748	-	-	592,748
Emerald Parkway - Phase 7A	12/01/00	12/01/20	2,020,000	301,685	-	-	301,685
Service Complex	12/01/01	12/01/21	3,675,000	685,728	-	685,728	-
Municipal Pool South (OMB)	07/01/04	01/01/25	2,986,000	1,092,000	-	1,092,000	-
Industrial Pkwy/SR 161 Improvements	11/18/09	12/01/29	9,670,000	5,960,000	-	-	5,960,000
Darree Fields Water Tower	11/18/09	12/01/29	2,015,000	1,235,000	-	-	1,235,000
Sanitary Sewer Lining	11/18/09	12/01/29	2,220,000	1,365,000	-	-	1,365,000
LED Street Lights	10/02/12	12/01/22	2,185,000	990,000	-	990,000	-
Dublin Road Water Tower	10/02/12	12/01/32	2,360,000	1,785,000	-	-	1,785,000
Sanitary Sewer Lining	10/02/12	12/01/32	2,540,000	1,920,000	-	-	1,920,000
Emerald Parkway - Phase 8	12/19/13	12/01/33	5,420,000	5,395,000	-	-	5,395,000
Bridge Street - Land Acquisition	12/19/13	12/01/33	4,435,000	4,410,000	-	-	4,410,000
Emerald Parkway - Phase 8	01/07/14	12/01/19	1,580,000	200,000	-	-	200,000
Bridge Street - Land Acquisition	01/07/14	12/01/19	1,265,000	145,000	-	-	145,000
270/33 Interchange	01/07/14	12/01/23	9,000,000	4,725,000	-	-	4,725,000
Dublin Road/Glick Road Improvements (OPWC)	07/01/14	01/30/26	250,000	175,000	-	-	175,000
Justice Center Improvements	09/30/15	12/01/35	10,600,000	9,505,000	-	9,505,000	-
Sewer Lining & Repairs	09/30/15	12/01/35	2,500,000	2,240,000	-	-	2,240,000
BSD Transportation (Riverside Dr./161/Park)	09/30/15	12/01/35	25,000,000	22,420,000	-	22,420,000	-
BSD Transportation (Bridge Park)	09/30/15	12/01/35	11,100,000	10,255,000	-	-	10,255,000
270/33 Interchange (Construction) (SIB)	02/10/15	02/10/35	10,010,000	6,909,573	-	-	6,909,573
BSD Transportation (John Shields Parkway II)	12/06/16	12/01/36	9,325,000	8,630,000	-	-	8,630,000
Service Center Renovation/Expansion	08/02/17	12/01/37	3,300,000	3,185,000	-	3,185,000	-
Sewer Lining & Repairs; Sewer Extensions	08/02/17	12/01/37	1,380,000	1,330,000	-	-	1,330,000
BSD Transportation (Pedestrian Bridge/N. High St.)	08/02/17	12/01/37	27,200,000	26,245,000	-	26,245,000	-
Historic Dublin Parking Garage/Roadway System	12/18/18	12/01/38	19,600,000	19,600,000	-	19,600,000	-
Sewer Improvements	12/18/18	12/01/38	1,350,000	1,350,000	-	-	1,350,000
Riverside Crossing Park	12/18/18	12/01/38	1,750,000	1,750,000	-	1,750,000	-
Total			192,642,788	145,812,301	-	86,042,728	59,769,573
<u>Unvoted Special Assessment Bonds</u>							
2001 Special Assessment	12/01/01	12/01/21	1,700,000	319,272	-	-	319,272
Total			1,700,000	319,272	-	-	319,272
<u>Unvoted Non-Tax Revenue Bonds</u>							
BSD Parking Structures (Tax-Exempt)	10/28/15	12/01/35	16,000,000	16,000,000	-	-	16,000,000
BSD Parking Structures (Taxable)	10/28/15	12/01/35	16,000,000	15,700,000	-	-	16,000,000
Total			32,000,000	31,700,000	-	-	32,000,000
<u>Voted G.O. Bonds</u>							
Woerner Temple Road	12/01/00	12/01/20	5,555,000	437,000	-	-	437,000
Emerald Parkway Overpass-Phase 7	12/01/00	12/01/19	6,565,000	519,000	-	519,000	-
Coffman Park Expansion	12/01/00	12/01/20	3,135,000	424,000	-	-	424,000
Total			15,255,000	1,380,000	-	519,000	861,000
Total Long-term Debt			\$241,597,788	\$179,211,573	\$ -	\$ 86,561,728	\$92,949,845

¹ Other Sources" include special assessment collections, real estate property taxes, water system revenues, service payments in lieu of taxes, and hotel/motel tax revenue.

**MUNICIPAL DEBT****PROJECTED LONG-TERM DEBT SCHEDULE | INCOME TAX SUPPORTED DEBT ONLY**

	2019	2020	2021	2022	2023	2024
Principal outstanding at the beginning of the year	\$ 113,831,506	\$ 118,767,961	\$ 119,213,769	\$ 120,821,278	\$ 116,415,778	\$ 110,238,278
Principal retired ¹	4,896,045	3,941,692	3,979,991	3,918,000	3,800,000	3,953,000
Existing City Debt	1,067,500	1,612,500	1,912,500	2,287,500	2,377,500	2,377,500
Proposed New Debt	10,900,000	6,000,000	7,500,000	1,800,000	-	-
Principal issued ²						
Principal outstanding at the end of the year	\$ 118,767,961	\$ 119,213,769	\$ 120,821,278	\$ 116,415,778	\$ 110,238,278	\$ 103,907,778

¹ Based on long-term debt outstanding as of 12/31/2018 and anticipated debt issuances.

² Issuance of debt based on major project listing and anticipated funding schedule.

The following issues anticipated:

2019	\$10.9 million - Riverside Crossing Park
2020	\$6.0 million - North Pool
2021	\$7.5 million - Riverside Crossing Park
2022	\$1.8 million - River Forest Storm and Roadway Improvements
2023	\$ -
2024	\$ -



MUNICIPAL DEBT

DEBT SERVICE PAYMENTS DUE | INCOME TAX SUPPORTED DEBT

DEBT ISSUE	2019	2020	2021	2022	2023	2024
Avery-Muirfield/US 33 interchange (2019)	\$ 575,700	\$ -	\$ -	\$ -	\$ -	\$ -
Emerald Pkwy-Perimeter/Shier Rings (2019)	\$ 541,057	\$ -	\$ -	\$ -	\$ -	\$ -
Service Complex expansion (2021)	\$ 274,107	\$ 277,758	\$ 179,863	\$ -	\$ -	\$ -
Swimming Pool Construction (2025)	\$ 215,610	\$ 214,085	\$ 213,032	\$ 211,503	\$ 209,505	\$ 208,041
LED street lighting (2022)	\$ 261,850	\$ 265,825	\$ 263,775	\$ 265,200	\$ -	\$ -
Justice Center Addition (2035)	\$ 783,494	\$ 780,294	\$ 780,294	\$ 781,994	\$ 781,369	\$ 779,619
Service Center Expansion (2037)	\$ 120,000	\$ 145,436	\$ 245,300	\$ 245,100	\$ 242,400	\$ 244,700
Historic District High Street/Pedestrian Bridge (2037)	\$ 975,000	\$ 1,186,450	\$ 2,016,350	\$ 2,013,750	\$ 2,011,650	\$ 2,014,150
Riverside Drive Park (2038)	\$ 60,000	\$ 60,000	\$ 74,696	\$ 136,619	\$ 134,994	\$ 138,044
Subtotal of Existing Income Tax Supported Debt	\$ 3,806,818	\$ 2,929,849	\$ 3,773,310	\$ 3,654,166	\$ 3,379,918	\$ 3,384,554
Reserve for TIF Supported Debt						
Emerald Parkway - Phase 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
I270/US33/SR161 Interchange (ROW/Construction)	\$ -	\$ -	\$ -	\$ -	\$ 151,517	\$ -
BSD Land Acquisitions for Roundabout	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Riverside Dr. Realignment/Roundabout/Riverside Park	\$ 591,025	\$ 211,725	\$ 212,125	\$ 262,125	\$ 465,875	\$ 261,875
(2035) CML Library Parking Deck and Roads (2038)	\$ 670,000	\$ 596,961	\$ 761,353	\$ 1,294,519	\$ 1,291,269	\$ 1,288,919
Subtotal Reserve for TIF Supported Debt	\$ 1,261,025	\$ 808,686	\$ 973,478	\$ 1,556,644	\$ 1,908,661	\$ 1,550,794
Proposed New Debt						
Riverside Crossing Park (2019)	\$ -	\$ 872,000	\$ 872,000	\$ 872,000	\$ 872,000	\$ 872,000
Dublin Community Pool North (2020)	\$ -	\$ 480,000	\$ 480,000	\$ 480,000	\$ 480,000	\$ 480,000
Riverside Crossing Park (2021)	\$ -	\$ -	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Subtotal Proposed New Debt	\$ -	\$ 1,352,000	\$ 1,952,000	\$ 1,952,000	\$ 1,952,000	\$ 1,952,000
Income tax revenue available for debt retirement	\$ 13,130,250	\$ 13,392,855	\$ 13,526,784	\$ 13,662,051	\$ 13,798,672	\$ 13,936,659
Balance available ¹	\$ 8,062,407	\$ 8,302,320	\$ 6,827,996	\$ 6,499,241	\$ 6,558,093	\$ 7,049,311
Amount of additional debt that could be supported ²	\$ 84,367,274	\$ 103,937,935	\$ 92,841,473	\$ 88,562,952	\$ 89,127,828	\$ 95,095,567

Estimated debt service obligations; Estimate assumes 20 year bonds at 5% and level payments.

¹ Funding not needed for debt service is utilized to fund cash basis projects.

² The City's debt policy stipulates that for the purposes of calculating debt capacity, only 90% of the amount reserved for debt service may be programmed.

³ The full debt payment for TIF supported debt is shown on Schedule 3.5 (under Service Payments); amount reflected here is the payment amount needed from income tax revenue due to insufficient TIF revenue.

This amount should not be included in the City's total amount of debt outstanding since the full debt service payment is reflected under Service Payments.

Note - Payments include both principal and interest and fees, if applicable.

Highlighted rows indicate anticipated future debt.



MUNICIPAL DEBT

DEBT SERVICE PAYMENTS DUE | DEBT SUPPORTED BY OTHER SOURCES THAN INCOME TAX

DEBT ISSUE	2019	2020	2021	2022	2023	2024
Service Payments						
Rings Road Improvements (2020)	\$ 279,391	\$ 281,181	\$ -	\$ -	\$ -	\$ -
Woerner-Temple Road (2020)	\$ 455,572	\$ -	\$ -	\$ -	\$ -	\$ -
Perimeter Drive extension (2020)	\$ 311,802	\$ 313,799	\$ -	\$ -	\$ -	\$ -
Emerald Parkway-Phase 7A (2020)	\$ 158,695	\$ 159,711	\$ -	\$ -	\$ -	\$ -
Industrial Parkway/SR 161 Improvements	\$ 665,206	\$ 667,144	\$ 661,119	\$ 653,744	\$ 653,744	\$ 653,144
Emerald Parkway-Phase 8 (2033)	\$ 482,925	\$ 480,425	\$ 481,275	\$ 481,825	\$ 482,075	\$ 482,025
I-270/US 33/SR 161 Interchange-ROW (2023)	\$ 1,037,825	\$ 1,033,075	\$ 1,037,375	\$ 1,033,750	\$ 1,034,800	\$ -
I-270/US 33/SR 161 Interchange-Construction (2034)	\$ 1,043,881	\$ 1,019,469	\$ 994,320	\$ 968,410	\$ 941,717	\$ 914,218
BSD Land Acquisition for Roundabout (2019/2033)	\$ 393,788	\$ 392,800	\$ 390,300	\$ 392,650	\$ 389,700	\$ 391,600
Riverside Dr. Realignment/Roundabout/Riverside Park (2035)	\$ 1,846,025	\$ 1,841,725	\$ 1,842,125	\$ 1,842,125	\$ 1,845,875	\$ 1,841,875
Bridge Park Roadway Network (2035)	\$ 842,881	\$ 844,081	\$ 845,081	\$ 843,581	\$ 845,081	\$ 840,331
Bridge Park Parking Structures - Tax Exempt (2044)	\$ 718,231	\$ 718,231	\$ 718,231	\$ 718,231	\$ 718,231	\$ 718,231
Bridge Park Parking Structures - Taxable (2035)	\$ 1,352,675	\$ 1,352,925	\$ 1,351,425	\$ 1,347,683	\$ 1,348,683	\$ 1,347,683
John Shields Parkway Phase II (2036)	\$ 632,500	\$ 631,550	\$ 630,300	\$ 628,750	\$ 631,900	\$ 629,600
CML Library Parking Deck and Roads (2038)	\$ 670,000	\$ 821,961	\$ 986,353	\$ 1,519,519	\$ 1,516,269	\$ 1,513,919
	\$ 10,891,398	\$ 10,558,078	\$ 9,937,904	\$ 10,430,268	\$ 10,408,075	\$ 9,332,626
Water and Sewer Funds						
Upper Scioto West Branch (2018)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Darree Fields Water Tower (2029)	\$ 134,463	\$ 136,850	\$ 134,600	\$ 137,100	\$ 138,950	\$ 139,550
Dublin Road Water Tower (2032)	\$ 159,413	\$ 156,788	\$ 158,563	\$ 159,613	\$ 160,513	\$ 156,913
Sewer Line Repairs (2029)	\$ 148,625	\$ 150,738	\$ 148,263	\$ 150,513	\$ 152,063	\$ 152,263
Sewer Line Repairs (2032)	\$ 168,550	\$ 170,725	\$ 172,200	\$ 168,000	\$ 168,725	\$ 169,900
Sewer System Improvements (2035)	\$ 183,069	\$ 186,169	\$ 184,169	\$ 186,669	\$ 186,419	\$ 185,919
Sewer System Improvements/Extensions (2037)	\$ 102,800	\$ 100,300	\$ 103,300	\$ 101,100	\$ 100,000	\$ 103,900
Sewer System Improvements/Extensions (2038)	\$ 45,000	\$ 45,001	\$ 61,674	\$ 105,138	\$ 108,888	\$ 107,238
Sewer System Improvements/Extensions (2040)	\$ -	\$ 486,400	\$ 486,400	\$ 486,400	\$ 486,400	\$ 486,400
Sewer System Improvements/Extensions (2042)	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000	\$ 120,000
Sewer System Improvements/Extensions (2044)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,000
	\$ 941,919	\$ 1,432,970	\$ 1,449,168	\$ 1,614,532	\$ 1,621,957	\$ 1,742,082
Special Assessments						
Ballantrae improvements (2021)	\$ 127,624	\$ 129,323	\$ 83,743	\$ -	\$ -	\$ -
	\$ 127,624	\$ 129,323	\$ 83,743	\$ -	\$ -	\$ -
Property Taxes (Inside millage)						
Parkland acquisition-Coffman Park (2020)	\$ 240,520	\$ 207,000	\$ -	\$ -	\$ -	\$ -
	\$ 240,520	\$ 207,000	\$ -	\$ -	\$ -	\$ -
Hotel/Motel Tax Revenues						
Arts Facility (2020)	\$ 165,400	\$ 166,460	\$ -	\$ -	\$ -	\$ -
	\$ 165,400	\$ 166,460	\$ -	\$ -	\$ -	\$ -
Total - Non-Income Tax Supported Debt	\$ 12,366,861	\$ 12,493,831	\$ 11,470,815	\$ 12,044,800	\$ 12,030,033	\$ 11,074,708

¹ Service payments are sufficient or exceed annual debt service obligations.² Annual service payments are not sufficient to retire the annual debt. Additional amounts will be advanced from the General/Capital Improvements Tax Fund and then repaid during the term of the TIF.

Highlighted rows indicate anticipated future debt.

Estimated debt service obligations are based on 20 year bonds at 5% and level payments.



DEBT PROCEEDS

PROPOSED PROJECT	2019	2020	2021	2022	2023	2024
<u>Long-Term Bonds-Retired by Income Taxes</u>						
City Facilities						
Dublin Community Pool North	\$ -	\$ 6,000,000	\$ -	\$ -	\$ -	\$ -
Riverside Crossing Park	\$ -	\$ 7,500,000	\$ -	\$ -	\$ -	\$ -
Total - Retired by Income Taxes	\$ -	\$ 13,500,000	-	\$ -	\$ -	-
<u>Long-Term Bonds-Retired by Utility Revenues</u>						
Sewer Improvements/Extensions	\$ 6,080,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	
Total - Retired by Sewer Revenues	\$ 6,080,000	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	
TOTAL	\$ 6,080,000	\$ 13,500,000	\$ 1,500,000	\$ -	\$ 1,500,000	

5 | Administration





ADMINISTRATION

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
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CAPITAL ALLOCATIONS

AL201	Land Acquisition	500	500	500	500	500	500	2,500	0	2,500
AL202	Parkland Acquisition	650	750	750	750	750	750	3,750	0	3,750
AL193	Mobility Initiatives	250	250	250	250	250	250	1,250	0	1,250
AL203	Bikeshare	0	220	50	50	50	50	420	0	420
AA201	Contingencies	250	250	250	250	250	250	1,250	0	1,250
ES142	Allocation for Sewer Extensions	200	200	200	200	200	200	1,000	0	1,000

2020-2024	TOTAL	1,850	2,170	2,000	2,000	2,000	2,000	10,170	0	10,170
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2019-2023	TOTAL - ADMINISTRATION	1,850	1,850	1,850	1,850	1,850	n/a
	\$\$ Difference	0	320	150	150	150	n/a
	% Difference	0.0%	17.3%	8.1%	8.1%	8.1%	n/a



ADMINISTRATION – CAPITAL ALLOCATIONS

AL201 **Annual Allocation for Land Acquisition**

Funding of \$500,000 is allocated annually for potential land acquisitions. Funding allows the City to take advantage of opportunities that may develop over the course of the five-year Capital Improvements Program.

AL192 **Annual Allocation for Parkland Acquisition**

The amount programmed is based on estimated revenue in the Parkland Acquisition Fund. The majority of the revenue credited to this fund is from property tax revenue generated from the City's inside millage. The property tax revenue from the City's inside millage (1.75 mills) was allocated 100 percent to the Parkland Acquisition Fund from 2001-2006. Beginning in 2007, the City began allocating .95 mills of the total 1.75 mills to the Parkland Acquisition Fund and the remaining .80 mills was allocated to the Capital Improvements Tax Fund. In 2010, the City began allocating 1.4 mills to the Capital Improvements Tax Fund and the remaining .35 mills to the Parkland Acquisition Fund. Although this allocation is reviewed and can be changed annually, as part of the 2019 – 2023 CIP, Council approved the current allocation through 2023.

The funding in the Parkland Acquisition Fund can be used for the acquisition of parkland, open space and/or sites for recreational facilities. Prior to the acquisition of land, legislation authorizing the acquisition is required to be adopted by City Council.

The funding programmed provides for the annual debt service payments on the debt issued to acquire the land for the expansion of Coffman Park. The final debt service payment for the expansion of Coffman Park will be made in 2020.

The following provides a recap of estimated revenues available less committed obligations:

	2020	2021	2022	2023	2024
Estimated revenue	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000
Less:					
Debt (Coffman Park)	<u>(207,000)</u>	---	---	---	---
Estimated balance available	\$443,000	\$750,000	\$750,000	\$750,000	\$750,000

As discussed in previous years, staff is recommending that the Parkland Acquisition Fund be utilized to acquire rights-of-way and/or easements for bikepath connections.



ADMINISTRATION – CAPITAL ALLOCATIONS

AL193 **Annual Allocation for Mobility Initiatives**

This allocation provides funding to pursue alternative modes of transportation and mobility options for the community. Currently, the majority of City residents and corporate citizens rely on personal vehicles for their mobility needs.

An annual allocation is programmed in the five-year period to study and review other mobility options. 2020 pilot projects include:

- Senior citizen and disability-accessible circulator program;
- Workforce shuttle (SHARE – starting Spring 2019 – 6 month pilot program)
- Secondary wayfinding program for shared-use paths;
- Bicycle commuter rider training.

Each project has the eventual goal of developing financial partners that would reduce the actual expenditures of a long-term sustained program. As options and plans are finalized, cost estimates will be re-evaluated and funding changes may be needed for construction, equipment purchase, maintenance and operations.

AL203 **Bikeshare**

This project provides funding for development of a bikeshare program for Dublin residents, business employees and visitors, as a response to the most requested project from the Mobility Study surveys and public forums. The LIME dockless bikeshare pilot program has ended, but demonstrated that there is a demand for bikeshare. The LIME program validated the need for the program, however their business model, which did not include financial partners, could not support the operations and maintenance costs. This pilot was extremely helpful to the City. It was piloted at no cost to Dublin and helped to gather significant data on usage, including high-demand areas and time periods.

Funding for this new bikeshare program provides for a partnership between the City and Motivate Company who operate the regional Columbus CoGo system. The funding programmed in 2020 is to install docked stations at locations where the LIME pilot program saw the highest usage. The initial project would begin with the installation of infrastructure for 3 stations, a bicycle start-up fleet, and necessary appurtenances. Operation and maintenance costs are programmed annually based on City of Columbus operation costs. The on-going annual operation and maintenance costs will be re-evaluated after installation.



ADMINISTRATION – CAPITAL ALLOCATIONS

AA201 Annual Allocation for Contingencies

Funds are allocated for change orders related to projects that are carried over from one year to the next, or minor projects that were unanticipated.

ES142 Annual Allocation for Sewer Extensions

This is an allocation that is programmed in each of the next five years to provide funding for sanitary sewer extensions to areas that do not currently have access to the public sanitary sewer system. The design and construction of extensions will be prioritized, programmed, and implemented in accordance with the Public Water Utility and Sanitary Sewer Utility Extensions to Existing Developed Property Policy adopted by Dublin City Council on December 7, 2015.

6 | Facilities



FACILITIES CAPITAL MAINTENANCE

(MUNIS) PROJECT NO.	DESCRIPTION	PRIOR YEARS (\$000)	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
	City-Wide									
AB201	Building Maintenance/Renovations	775	800	565	565	1,400	280	3,610	140	3,750
AB195	DCRC - Replacement Chiller Units (2)	44	550	0	0	0	0	550	0	550
	TOTAL	819	1,350	565	565	1,400	280	4,160	140	4,300
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
AB202	Log Cabin Re-Build	0	0	0	0	10	100	110	0	110
	Fleet									
AB174	Salt Barns (2)	0	0	0	0	0	1,030	1,030	0	1,030
	Service Center									
AB203	Security Gates	0	25	0	0	0	0	25	0	25
	Justice Center									
AB061	Covered Parking	0	0	0	0	0	0	0	1,800	1,800
	Dublin Community Recreation Center (DCRC)									
AB173	Pool Tile Replacement/Enhancement	0	0	0	0	0	0	0	240	240
AB205	DCRC Update	0	350	0	0	0	0	350	3,000	3,350
	Old City Hall (5200 Emerald Parkway)									
AB204	Building Renovations	0	235	0	0	0	0	235	0	235
	New City Hall (Dublin Civic Campus)									
AB193	City Hall FF&E / Minor Renovations	0	750	0	0	0	0	750	0	750
AB194	Council Chambers	6,000	0	0	0	0	0	0	0	0
	TOTAL	6,000	1,360	0	0	10	1,130	2,500	5,040	7,540
2020-2024	TOTAL - CITY FACILITIES	6,819	2,710	565	565	1,410	1,410	6,660	5,180	11,840
2019-2023	TOTAL - CITY FACILITIES	3,980	1,140	1,295	545	1,380	n/a			
	\$\$ Difference	2,839	1,570	(730)	20	30	n/a			
	% Difference	71.3%	137.7%	-56.4%	3.7%	2.2%	n/a			



FACILITIES CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the facilities projects unless otherwise noted.

AB201 Building Maintenance/Renovations

The amount requested for **2020** projects is broken down as follows:

Location	Description	Amount
City Hall & Annex	Replace main entrance doors	\$35,000
Fleet Building	CNG – metered time fill valve panel	30,000
Justice Center	Replace windows as needed, and design a plan for building-wide window replacements	150,000
	Change memorial slab on pillars to a granite surface	55,000
	Repair gutters and down spouts	150,000
Parks	Replace soft top cover for amphitheater	25,000
	Repair and paint Llewelyn South Barn; Avery Shelter House, and Bristol Barn	20,000
Dublin Community Recreation Center (DCRC)	Replace AON rooftop units and update auto logic controls	55,000
	New paneling in Community Room	65,000
	LED lighting retrofit	10,000
	Replace worn carpet	50,000
	Replace worn wooden doors	30,000
Various Citywide Maintenance and Renovations	Small in-house renovations	25,000
	HVAC and pump replacements	25,000
	Carpet and other flooring replacements	45,000
	Painting and patching walls as needed	30,000
Total (2020)		\$800,000



FACILITIES CAPITAL MAINTENANCE

AB195 DCRC – Replacement Chiller Units

Funding for this project provides for the replacement of two Trane chillers that provide cooling for the recreation facility that comprises the original DCRC Phase 1 footprint. The DCRC's chiller plant has been in operation for 22 years. According to the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), the life expectancy of this type of chiller is 20 to 23 years. The chillers at the DCRC are nearing the end of their life expectancy. The chillers are the only source of cooling for DCRC phase 1. This includes four air handlers that add cooling to the main entrance, the weight rooms, gym, leisure pool and lap pool as well as the babysitting area, administration and check-in desk. The chillers are also tasked with dehumidification.

Replacement includes the cost of removal/disposal of the existing chillers, re-piping, and commissioning of the new chiller units.

Funding for the replacement chiller units is programmed in 2020.



FACILITIES CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AB202 Log Cabin Re-Build

This project provides for the design and re-build of the log cabin found inside the walls of a home on Riverside Drive during demolition. The cabin is a two story structure believed to be from the early 1800's. The location for the re-build has yet to be determined.

Funding is programmed in 2023 for planning/design, and funding is programmed in 2024 for the re-build.

AB174 Salt Barns (2)

The City currently has two 2,000 ton salt barns. This project would build storage with a capacity of 10 to 12 thousand tons. This capacity will ensure ample salt supplies during harsh winters. Construction is reflected in 2024. The type, number, and layout of structure(s) has yet to be determined. Small repairs are being made to the current structures to keep them operational. The barns are monitored for maintenance and the project will be re-evaluated as necessary.

AB203 Service Center Security Gates

This project provides funding in 2020 for security gates for the rear Service Center parking lot and fuel island area. These gates were recommended by the City's Security Consultant.

AB061 Justice Center

The amount shown beyond the five-year program period is for a potential carport project to shelter patrol vehicles.

AB173 Dublin Community Recreation Center (DCRC) Pool Tile

Funds programmed beyond the five-year program period are for pool tile replacement to replace the original wall tile that matches with the current color palette. This will improve the overall aesthetics of the leisure and lap pools.

This project will require the indoor pools to be closed for a period of time beyond the normal 10-day shutdown. Sufficient time will be necessary to give public notice about the extended pool closure, and make any alternate plans if necessary.

Due to the cosmetic nature of this project, the work is reflected beyond the five-year program period and will be re-evaluated as funds become available.



FACILITIES CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AB205 Dublin Community Recreation Center (DCRC) DCRC Update

This project provides for an interior renovation to the DCRC. The facility has been in operation for more than 20 years with minimal cosmetic updates.

Funding programmed in 2020 provides for design costs. Construction is reflected beyond the five-year program period at the current time.

AB204 Building Renovations - 5200 Emerald Parkway (Current City Hall)

It is currently planned that upon sale of the 5800 Building located on Shier Rings Road, the Development functions and staffing from that building will be relocated to the municipal building on Emerald Parkway. Funding is programmed in 2020 to provide for security, front lobby renovations, renovations to the annex lobby, and other necessary work to accommodate the relocated staff.

Future City Hall (Dublin Civic Campus – 5555 Perimeter Drive)

In January 2018 (Ordinance #1-18), the City purchased the Delta Energy Building at 5555 Perimeter Drive to provide for a new civic complex. The property encompasses more than 2.5 acres. This acquisition provides a unique opportunity for the City to pursue the realization of the City's 1997 and 2007 Community Plan for the area of Coffman Park and adjacent property to serve as Dublin's civic/government center while also consolidating City operations.

AB193 City Hall FF&E and Minor Renovations

Funding provides for the FF&E (furniture, fixtures and equipment) and minor renovations (wall work) for the relocation of staff to the building at 5555 Perimeter Drive. This includes items that have no permanent connection to the structure of the building such as furniture and workstations, and other miscellaneous office appurtenances.

Funding is programmed for this project in 2020. Plans include the relocation of City staff from the current City Hall building located on Emerald Parkway. It is expected that the City's development functions (development, economic development, planning, zoning and building) will move to the existing City Hall location from their current location in the 5800 Building.

AB194 Council Chambers

Funding provides for the design and construction of a building addition at 5555 Perimeter Drive to accommodate a new Council Chambers, related offices, and additional meeting spaces. The intention is to provide a central location in the community that is convenient and easily accessible for residents and visitors.

Funding is programmed in 2019 for design and construction of this project with costs for the project partially off-set by the sale of the 5800 Shier Rings Road building.



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7 | Fleet





CITY-WIDE FLEET

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
AV201	Replacement Vehicles	1,300	870	740	1,090	845	850	4,395	0	4,395
AV203	Replacement Equipment	265	305	445	260	135	230	1,375	0	1,375
	TOTAL	1,565	1,175	1,185	1,350	980	1,080	5,770	0	5,770
NEW CAPITAL ASSETS										
AV201	New Vehicles	115	140	0	40	0	40	220	0	220
AV203	New Equipment	0	40	0	0	0		40	0	40
	TOTAL	115	180	0	40	0	40	260	0	260
2020-2024	TOTAL - CITY-WIDE FLEET	1,680	1,355	1,185	1,390	980	1,120	6,030	0	6,030
2019-2023	TOTAL - CITY-WIDE FLEET	1,680	1,220	1,490	1,250	1,145	n/a			
	\$\$ Difference	0	135	(305)	140	(165)	n/a			
	% Difference	0.0%	11.1%	-20.5%	11.2%	-14.4%	n/a			



FLEET MANAGEMENT PROGRAM CAPITAL MAINTENANCE AND NEW CAPITAL ASSETS

Note: The Capital Improvement Tax Fund is the source of funding for all of the fleet projects unless otherwise noted.

AV201 Replacement and New Vehicles

The Fleet Management Replacement Policy was implemented to provide replacement cycles for vehicles and equipment that ensures the ongoing reliability and safety of the City's fleet that is necessary to provide quality services. The program's goal is to provide efficient fleet and equipment, and to maximize the return to the City on vehicle disposal.

Vehicles are scheduled for replacement based on years of service and/or mileage. Based on additional evaluations of the City's fleet, some vehicles have been moved back based on low usage and condition. Final determination for replacement are made by the Fleet Manager based on a physical evaluation of the vehicle and a points system. The amount programmed for each department by year is listed below.

The City will continue to identify areas of reduction through the use of pool cars as well as savings through "right sizing" its fleet based on the need of the end user. Also, the City will continue to replace its vehicles, whenever appropriate, with compressed natural gas (CNG) and other alternative fuel vehicles to work towards City Council's goal of environmental sustainability.

The vehicle request for the five-year period includes:

Dept./Div.	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Replacement Vehicles:	\$870,000	\$740,000	\$1,090,000	\$845,000	\$850,000
New Vehicles:					
Motor Pool	140,000	0	40,000	0	40,000
Total	\$1,010,000	\$740,000	\$1,130,000	\$845,000	\$890,000

**FLEET MANAGEMENT PROGRAM
CAPITAL MAINTENANCE AND NEW CAPITAL ASSETS****AV203 Replacements and New Equipment**

The equipment request for the five-year period includes:

<u>Dept./Div.</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Replacement Equipment:	\$305,000	\$445,000	\$260,000	\$135,000	\$230,000
New Equipment	40,000	0	0	0	0
Total	\$345,000	\$445,000	\$260,000	\$135,000	\$230,000

A breakdown of 2020 replacement equipment includes:

Parks Operations

Cemetery mowers
Replace 20 zero turn mowers
Zero turn mowers for Bridge Park, plus trailer

Street & Utilities Operations

Replace Leaf Vacuum - Orange Pull-Behind
Mower Replacement



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8 | Parks



PARKS & RECREATION

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
AR201	Park Renovations / Rehabilitations	800	1,040	800	800	800	800	4,240	0	4,240
AB202	Public Art Maintenance	15	15	15	15	15	15	75	0	75
	TOTAL	815	1,055	815	815	815	815	4,315	0	4,315

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AG17B	Bike Rack Installation	0	25	0	25	0	25	75	0	75
GR121	Dublin Arts Council Site Renovations	35	0	475	0	0	0	475	725	1,200
GR113	IGS Park (TIF)	0	0	0	0	0	0	0	300	300
GR161	Barronsmore Mound (Ballantrae)	0	0	0	0	0	0	0	115	115
GR992	Coffman Park Expansion	0	400	0	0	0	0	400	925	1,325
GR114	Ferris-Wright Park (Holder-Wright Farm and Earthworks)	0	95	0	0	0	0	95	2,035	2,130
GR133	Riverside Crossing Park	10,900	0	7,500	0	0	0	7,500	13,200	20,700
GR163	Tuller Flats (TIF)	0	0	0	0	0	0	0	460	460
GR115	DCPN (North Pool) Renovations	1,300	6,000	0	0	0	0	6,000	0	6,000
GR171	DCPS (South Pool) Renovations	190	150	0	0	0	0	150	0	150
GR172	John Shields Parkway Greenway (TIF)	0	0	0	0	1,425	0	1,425	0	1,425
GR182	ML "Red" Trabue	0	0	0	0	0	300	300	300	600
GR190	West Bridge Street/161 - Streetscape Enhancements	250	0	0	0	0	0	0	0	0
GR191	Emerald Parkway - Streetscape Enhancements	0	0	0	0	0	0	0	330	330
GR192	Golf Club of Dublin Enhancements (6665 Shier Rings Road)	20	0	0	0	0	0	0	0	0
	TOTAL	12,695	6,670	7,975	25	1,425	325	16,420	18,390	34,810

2020-2024	TOTAL - PARKS & RECREATION	13,510	7,725	8,790	840	2,240	1,140	20,735	18,390	39,125
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2019-2023	TOTAL - PARKS & RECREATION	13,540	7,140	8,215	840	815	n/a
	\$\$ Difference	(30)	585	575	0	1,425	n/a
	% Difference	-0.2%	8.2%	7.0%	0.0%	174.8%	n/a



PARKS CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the parks projects unless otherwise noted.

AR201 **Park Renovations / Rehabilitations**

Funding is programmed for renovation/ improvements to various existing parks. The maintenance and rehabilitation of the City's parks is an important part of the Parks CIP.

The following renovations and improvements are programmed in 2020:

LOCATION	DESCRIPTION	AMOUNT
Avery Park	Avery baseball field #8 – field lighting replacement (and associated electrical changes)	\$115,000
Donegal Cliffs Park / Trinity Park / Monterey Park	Basketball court resurfacing	60,000
Darree Fields	Shade structures fields 11, 12, 16, 17 (replace degrading fabric with metal type structures)	160,000
Wyndham Park / Westbury Park	Playground equipment replacements (structures have exceeded their life cycle or replacement parts are not available for the equipment)	600,000
Avery Park and Brighton Park	Tennis court resurfacing	80,000
Multiple Locations	Park Shelter Bulletin Boards (for all rented shelters)	25,000
Total Requested		\$1,040,000



PARKS CAPITAL MAINTENANCE

AB192 Public Art Maintenance

This project provides for annual funding for on-going maintenance, repairs and restoration of public art work owned by the City. Funding is provided for this project from the Hotel/Motel Tax Fund. Like all other infrastructure, the City's artwork is in need of routine maintenance, occasional repairs, and full restoration to prolong its life.





PARKS

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AG17B Bike Rack Installation

Funding provides for an allocation of installation and bike racks throughout the City. City staff, as well as the Bicycle Advisory Task Force (BATF), identified the need for additional bike racks. Racks will consist of a mix of standard, custom and functional sculpture bike racks based on location and need.

Funding for bike racks is allocated on a biennial basis.

GR121 Dublin Arts Council Site Renovations

Funding provides for constructing overflow parking, site grading and terracing at the rear of the building, electrical work, and retaining walls reflected in 2019 and 2021. Terracing at the rear of the building will allow for better programming opportunities; overflow parking (reinforced turf) will protect the grounds.

Project design is programmed in 2019, with construction to be in 2021. Funding for this project will be through the Hotel/Motel Tax Fund.

GR113 IGS Park

This project will provide a park area adjacent to commercial areas (Interstate Gas Supply – IGS). The land for the park was provided by IGS Energy per the Economic Development Agreement (EDA) with the City.

Funds reflected beyond the five-year program period are for a second internal bridge connecting IGS to the park, and providing for a picnic grove once the building expansion has been completed. These amenities will provide a park area for daytime residents to walk and picnic. Construction of this phase of the project is pending IGS building expansion per the EDA.

The funding source for this project will be the Thomas/Kohler TIF.

GR161 Barronsmore Mound (Ballantrae)

This project is reflected beyond the five-year program period, and will be reconsidered as funds become available. The project plans include walking paths, plaza, bike racks, benches, and adding electricity.



PARKS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

GR992 Coffman Park Expansion

City Council adopted a policy to acquire the properties along Post Road from 6124 Post Road east to existing Coffman Park to create a scenic “central” park for the City. The Coffman Park Expansion Plan Task Force (the Task Force) was created by City Council in 2002 to assist with this project. The Task Force considered a wide range of optional park expansion ideas and formulated and compiled its recommendations and concept plans into the Coffman Park Expansion Task Force Report. The Task Force Report was reviewed and adopted by City Council on November 3, 2003.

The final property identified in the Coffman Park expansion was acquired in 2009. The funding programmed in 2010 provided for an analysis of potential phasing of the elements identified in the Task Force Report and preliminary cost estimates. This information was necessary to evaluate the timing and amount of funding needed to begin future development. In 2010, staff revisited the plan for Coffman Park to verify original assumptions and update it for current conditions.

Funding programmed in 2020 is to construct six pickleball courts, fencing and court lighting. Additionally, a multiuse path connection just west of the tennis courts and restroom area is planned to alleviate the damage to the lawn in that space, and mitigate congestion on the paths surrounding the restroom during the annual Irish Festival. Funding programmed beyond the five-year period provides funding to update the Master Park Plan for the western side of the park near the area where the old Nyrop House once stood. The plan will re-envision this area of the park, and the amenities that fit the changing needs of the users. Construction of those amenities will be programmed once the plan is completed and approved. The remaining funds outside the five-year program period will construct tennis courts and lighting by the Justice Center.

GR114 Ferris-Wright Park (Holder-Wright Farm and Earthworks)

This park is situated on an archeological and historical site on Bright Road. The plan for the Park is to preserve and showcase the ancient earthworks, farmhouse and natural features that are a significant part of Dublin’s history.

These prehistoric Hopewellian burial mounds and earthworks are considered to be one of the best examples of prehistoric community centers in the state. The other significant features of the site is the Holder-Wright farmhouse. The farmhouse is one of the few remaining examples in central Ohio of architecture from the early 1800s. Together these unique cultural resources provide a terrific interpretive and educational opportunity for residents and visitors.

Park amenities include a restroom facility, parking lot with entry drive, utility extension, small pedestrian bridge, trail to visitor orientation center (old farmhouse), shared-use path from Emerald Parkway to parking lot, and internal compacted gravel pedestrian paths. Artifact display cases, artifact replications, and educational materials are also programmed.



PARKS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

CT Consultants was commissioned by the City to provide the master planning for the park. Completion of the final phase of master plan construction is shown beyond the five-year program period. It includes funds for design of future restoration of earthworks, interpretive signage, outdoor demonstration garden, shelter, overhead utility burial, and driveway removal.

Funding programmed in 2020 will add fencing and a new gate along Bright Road to better secure the property. Additionally, the electrical lines along the farmhouse driveway will be buried to protect the infrastructure and prepare the site for future park development.



GR133 **Riverside Crossing Park**

First conceived in the Scioto River Corridor Framework Plan, and most recently affirmed in the May 23, 2016 City Council approval of the Scioto Riverside Park Master Plan, this project provides for the construction of a new central park on both sides of the Scioto

River adjacent to Dublin's historic core. The architect/planning firm contracted for the project is MKSK.

The park will ultimately link to other regional parks and recreational systems through potential bicycle/pedestrian facilities, and canoe/kayak access points. The two sides of the park will be linked by a pedestrian-bicycle bridge, with public plazas providing access to restaurants, shops, a new library, and the broader mix of destinations east and west. The park along the west side of the Scioto River is more than 19 acres envisioned as a naturalized area with connections to the Indian Run greenway, water access, and trail systems. The 16 acre park along the east side will feature more active areas to allow for assembly space, restrooms/pavilion, extensive paths and landscaping, site lighting and river overlooks.



PARKS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

In addition to fiscal considerations, timing of the planned river park improvements are being driven in part by the implementation of the park's most iconic feature, the pedestrian bridge crossing the Scioto River. Capital programming prioritization is centered on the implementation of the pedestrian bridge as well as the construction of the plazas associated with the landing areas providing access to that bridge itself.

2019 - \$10,900,000 – East Park Upper Plaza and West Plaza site improvements (including railing and masonry packages), and East Park Lower Plaza. The future pedestrian bridge landing plaza on the east side of the River will include a large gathering space, pavilion with comfort stations; these will provide opportunity for a variety of programmed activities.

2021 - \$7,500,000 – East Park Open Space and Events Lawn, and West Plaza park path improvements, site stabilization and site restoration.





PARKS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE



Funds reflected beyond the five-year program period include funding for the balance of park development including the Indian run connection, John Shields Parkway plaza and East Bluff access path, and funding for the Riverside promenade (based on final site plan acceptance).

This project will be funded through general obligation debt that will be issued. Advances from the General Fund will be made in the meantime if needed to meet expenditures, and then the advances will be repaid with the bond proceeds.

GR163 **Tuller Flats Park**

This project is to design and develop a highly visible park area surrounded by multi-family housing on John Shields Parkway. Park amenities are yet to be determined, but aesthetics will be highly important. The funding source for this project will be the Tuller TIF. Funding is currently not programmed in the five-year period. Programming of the project will be driven by development (phase 2 Tuller Flats TIF revenue).

GR115 **Dublin Community Pool North Renovation (DCPN)**

This project provides for the demolition and reconstruction of the DCPN, located at 5660 Dublinshire Drive. The facility is nearly 30 years old and the condition of DCPN has continued to deteriorate. The main pool shell is losing its structural integrity; each year large sections of concrete have been removed and patched to prevent leaks, tripping and safety hazards. Patching is a temporary solution and loose aggregate is often visible during the operating season. This renovation will update the facility to meet current industry standards; including zero depth entry. The main bathhouse, which includes the front desk and staff offices, will be updated to meet the current needs of the facility.



PARKS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

A site survey was conducted by MSA Architects, dated February 19, 2019. Staff conducted a second public input session in early April 2019 to gauge the community's overall needs and desires from a renovated facility.

While the City only intends to fund replacement of the existing 25-meter pool and other outdoor amenities, a community-driven initiative is aiming to raise additional private funds for the larger, more competition-based facility.

The funding programmed in 2019 funds the design and current maintenance needs through the 2019 swimming season, with construction of the replacement facility programmed to begin in 2020.

GR171 Dublin Community Pool South Renovation (DCPS)

In 2019, the play structure in the South Pool, located at 6363 Woerner Temple Road was replaced with a smaller version to increase safety. In doing so, the design offered the ability to add additional features to increase the play value. Funding programmed in 2020 will add spray features to the play structure installed in 2019, as well as fund the purchase of equipment (deck padding or rails) to increase the safety of the diving board.

GR172 John Shields Parkway Greenway

This project provides for the construction of a highly visible greenway area from Riverside Drive to Village Parkway. Greenway amenities have yet to be determined, but aesthetics will be highly important. Construction funding assumes phase 2 Tuller Flats TIF revenue.

Currently, design and construction of the greenway project is programmed in 2023. The project is contingent on Phase 2 Tuller Flats TIF revenue.

GR182 ML "Red" Trabue Park

This project provides funding in 2024 to replace portions of the dock that is deteriorating. Funding shown beyond the five-year period is to add an arbor with a paved area and restroom facilities, which would be rentable space for events, etc.

GR190 West Bridge Street/ SR 161 – Streetscape Enhancements

This project provides for streetscape enhancements of one of the major gateways into the City of Dublin spanning West Bridge Street/SR 161 from the 270/33 interchange to Franklin Street.

Funding programmed in 2019 provides for the construction of additional free-standing stone walls and plantings along the corridor. Work in portions of the right-of-way will require approvals from ODOT.



PARKS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

GR191 Emerald Parkway – Streetscape Enhancements

This project provides for streetscape enhancements along portions of Emerald Parkway (Rings Road to Post Road) to re-work tree plantings and replacement of some of the current plantings with color and texture that will enhance the visual aesthetics of the street's character throughout the year.

Funding is reflected beyond the five-year period. Enhancements will be completed as funding becomes available.

GR192 Golf Club of Dublin Enhancements

This project provides funding in 2019 for condition assessment, and minor maintenance needed for the historic home located on the Golf Club of Dublin site at 6665 Shier Rings Road.

9 | Police





POLICE

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
PP083	Replacement Lasers	10	0	0	0	0	10	10	0	10
PP084	Replacement Radars	10	0	0	0	0	10	10	0	10
PP168	Delaware Tactical Unit (DTU) Equipment	0	0	20	0	0	0	20	0	20
PP171	Walkie Upgrades	150	150	0	0	0	0	150	0	150
PP181	Replacement Bicycles	20	0	0	0	0	0	0	0	0
PP183	Replacement/Upgrade Tasers	175	0	0	0	0	250	250	0	250
PP190	Replacement Datamasters	25	0	0	0	0	0	0	0	0
PP191	Replacement Ballistic Shields	0	0	0	0	35	0	35	0	35
PP192	Replacement Speed Trailers	0	0	0	0	25	0	25	0	25
	TOTAL	390	150	20	0	60	270	500	0	500
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
PP132	Automatic License Plate Readers	120	0	0	0	0	120	120	0	120
PP193	Consoles for Radio Room (additional)	0	350	0	0	0	0	350	0	350
PP194	EOC Room Enhancements	25	0	0	0	0	0	0	0	0
PP195	Unmanned Aerial Vehicle (UAV)	20	0	0	0	0	0	0	0	0
PP196	Body Cameras & Mobile Video Systems	340	0	0	0	0	0	0	0	0
PP197	Drug Disposal Incinerator	0	45	0	0	0	0	45	0	45
PP201	911 Answering Positions	0	175	0	0	0	0	175	0	175
PP202	Mobile Command Vehicle (see Note A below)	0	0	950	0	0	0	950	0	950
PP203	Automated Voice Dispatching	0	150	0	0	0	0	150	0	150
	TOTAL	505	720	950	0	0	120	1,790	0	1,790
2020-2024	TOTAL - POLICE	895	870	970	0	60	390	2,290	0	2,290
2019-2023	TOTAL - POLICE	895	420	65	0	60	N/A			
	\$ Difference	0	450	905	0	0	N/A			
	% Difference	0.0%	107.1%	1392.3%	0.0%	0.0%	N/A			

Note A - Partnerships are being explored for this project. The City's budget is \$475,000 for this project.



POLICE CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the Police projects unless otherwise noted.

PP083 Replacement Lasers

Funds are programmed in 2019 and 2024 to replace aging traffic lasers. Traffic lasers are used by patrol officers to assist them with their traffic enforcement duties. Based on their life expectancy and for maintenance of current technology of speed detection equipment, lasers have been moved from a 10-year replacement cycle to a 5 to 7-year replacement cycle.

PP084 Replacement Radars

Funds are programmed in 2019 and 2024 to replace aging radars. Front line police vehicles are equipped with traffic radars to assist patrol officers with traffic enforcement duties. Based on the life expectancy of the equipment, and for maintenance of current technology of speed detection equipment, radars have been moved from a 10-year replacement cycle to a 5 to 7-year replacement cycle.

PP168 DTU Equipment

Funds are programmed in 2021 to provide for equipment to support additional Dublin officers operating with the Delaware Tactical Unit (DTU). The City currently has two Dublin Police Department members on the team. The equipment is necessary to ensure the safety and efficiency of the officers during high-risk operations such as barricades, hostage situations, and working high-risk search warrants.

PP171 Walkie Upgrades

Funding is programmed annually in 2018 through 2020 for upgrade and replacement of portable radios (walkies) for the Police Department. The current portable radios carried by law enforcement staff were purchased in 2007, 2008 and 2009 and are reaching their useful life. The current models are no longer manufactured or sold by Motorola and will go to "best possible" support starting in 2018. Funding will allow for the purchase of a total of 85 new portable radios (2018-2020) that will be capable of operating on multiple bands and systems. It is anticipated that some of the replaced radios will be kept for spare parts and non-frontline use. Others will be traded in for credit or sold to non-public safety agencies for use.

PP181 Replacement Bicycles

This project provides funding for the purchase of police outfitted bicycles for the Police



POLICE CAPITAL MAINTENANCE

Bike Unit to replace several which have exceeded their useful life. Currently, 13 of the bicycles in Dublin's fleet are over the 7-year replacement recommendation. The International Police Manual Mountain Bike Association recommends replacing bikes every seven years. The Police Bike Unit is used for parades, special events, and routine patrol functions. Police bikes have lighter frames in order to carry or lift them over obstacles such as stairs and curbs. They are also subject to more wear-and-tear due to how they are utilized during firearms and suspect contact/apprehension.

Funding is programmed for this project in 2019.

PP183 Replacement/Upgrade Tasers

Dublin police officers have carried tasers since 2007. These tools have become the primary less-lethal weapon used, and are carried by every officer. The Police Department anticipates the need to replace every taser in its inventory in 2019. Originally, the useful life of the tasers was estimated to be 10 to 13 years. However, the Police Department has seen an increasing number of failures with the equipment. Additionally, at the end of 2018, Taser International will not service the existing equipment.

Funding for the upgrade is programmed in 2019, and it is anticipated they will need replacement again in 2024.

PP190 Replacement Datamasters

Funding provided in 2019 is for replacement of the existing breath alcohol testing equipment and the purchase of a spare so that there is no down-time if a unit needs to be repaired or re-calibrated. When a Datamaster fails, it takes up to a month to be serviced. The City's current machines are approximately 20 years old, and frequently go out of service. The current service contract for repairs expires in 2019.

PP191 Replacement Ballistic Shields

Funding is programmed in 2023 for the replacement of existing ballistic shields that have a 5 to 7-year useful life. Ballistic shields are kept in the City's cruisers for deployment during an emergency response. The shields will meet their useful life in 2023 and will need replacement at that time.

PP192 Replacement Speed Trailers

Funding programmed in 2023 is to provide a speed trailer. The City has a continued need for responding to traffic issues. The Police Department have four trailers which are over 10 years old. These trailers have on-going maintenance issues. The current trailers are still serviceable, but are expected to need replacement in 2023.



POLICE CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

PP132 Automatic License Plate Readers (ALPR)

Funds programmed in 2019 and 2024 provides for the additional purchase of automatic license plate readers for police cruisers. This has been a phased project since 2014. The funding in 2019 will allow for installment of ALPR's in all remaining frontline vehicles. Funds for this project anticipate the replacement/update of ALPR equipment and technology in 2024.

License plate readers are a computerized tool installed on police cruisers that read license plates and compare them to a database of wanted and missing persons, amber alerts, stolen vehicles and homeland security alerts and notify the officer anytime there is a match. These systems scan as many as 10,000 plates per hour and greatly increase the possibility an alert will be found. The funding proposed is to phase in the system and install the units on select cruisers as they are changed out. Staff will also be working with other law enforcement agencies in the area to share the system and its costs.

PP193 Consoles for EOC Radio Room (additional)

Funding programmed in 2020 will provide for the addition of 4 new full-service console work stations in the Police Communication Centers (Emergency Operations Center - EOC) to ensure adequate work space at all times. These consoles will allow additional personnel to work in order to raise the minimum staffing during busy shifts.

When the EOC was designed in 2014 and opened in the new facility in 2016, it was designed with 8 full-service console positions and room to add another 4 positions for future growth. Partnering with additional entities and steadily increasing workload has resulted in the need for the additional consoles. Costs of these consoles will be included in future Northwest Regional Emergency Communications Center (NERCC) billing, and/or new partnership agreements.

PP194 EOC Room Enhancements

Funding programmed in 2019 provides for enhancements to the Police radio room. Enhancements include overhead speakers, projectors and TV equipment replacement. These items were removed during the recent renovation due to code compliance issues. There will be a coordinated effort between the City's IT Department and the Police Department to replace those items.

**POLICE
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE****PP195 Unmanned Aerial Vehicle (UAV)**

Funding programmed in 2019 provides for an unmanned aerial vehicle (UAV) the equipment necessary to conduct high risk surveillance and search and rescue for the Police Department. UAV's are quickly becoming common place in the area of law enforcement across the country. This tool will allow officers to observe crime scenes, hazardous materials, and other vulnerable areas from the safety of a remote location. UAV's have also proven to be valuable in searching for missing persons and mapping crime and traffic crash scenes. The addition of this equipment in the Police Department's inventory will improve the functionality and effectiveness in providing safety services.

PP196 Body Cameras and Mobile Video Systems

This project provides funding in 2019 for body cameras for all uniformed personnel and replacement of current cruiser camera systems to a compatible system that works with the body cameras. The Police Department deployed a limited number of body cameras in 2018 as part of research into the implementation of the equipment. It was found that the consolidation of body cameras and cruiser cameras into one compatible system would be beneficial. Funding provided would deploy body cameras to all uniformed personnel in 2019. This equipment's value is evident in its ability to record many encounters that would otherwise not be retained on video. The current cruiser camera systems will be replaced with compatible systems that work with body cameras. It is anticipated that the project will take two years to complete.

Note: This new technology is replacing and enhancing the in-car camera system.

PP197 Drug Disposal Incinerator

Funding in 2020 provides for the addition of an on-site incinerator for proper destruction and disposal of drugs, both collected and seized. With the increased use of the prescription drug drop-off box, and the addition of four neighborhood drug takeback days during the year, the need has arisen for the ability to destroy the drugs on-site in a proper and timely manner. In 2018, the City's Drug Take Back efforts resulted in the collection of nearly 300 lbs. of drugs. The current disposal provider is the Delaware County Sheriff Department. The City has been informed that Delaware County will provide the service through 2020.

The Police Department intends to seek a partnership with the Washington Township Fire Department for placement of the incinerator at their training facility.

PP201 911 Answering Positions

With the planned addition of 4 console work stations in the EOC (see project PP193),



POLICE CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

each position will need to be outfitted with 9-1-1 answering equipment for the receipt of both emergency and non-emergency calls and text messages. These positions will be an add-on to the existing Airbus Vesta System shared with Delaware County and City of Westerville. It is the City's intent to request reimbursement for the cost of these positions from the Next Generation 9-1-1 Fund administered by the Franklin County 9-1-1 Planning Committee.

Funding for this project is programmed in 2020.

PP202 Mobile Command Vehicle

The current Dublin Police mobile command post is a 2004 Surry Manufacturing 39' towable, dual axle trailer. This unit has served Dublin well for the past 15 years, most often at pre-scheduled special events where it can be deployed to a pre-determined location, connected to a power source and has access to hardwired information technology infrastructure. Once deployed, the trailer remains in the same location for the duration of the event and cannot easily be moved. In addition to the time it takes to obtain a towing vehicle, time must be devoted to hooking-up the trailer, towing it to the scene, and setting the trailer up once it arrives. On average, it takes more than an hour to complete these tasks, greatly reducing the effectiveness of the asset.

A motorized mobile command post will improve the mobility of the unit, greatly reduce the response time needed to get it to an emergency and allow for immediate use once it arrives. Equally important, because it does not require a towing vehicle, the motorized mobile command post can easily be moved or repositioned based on the safety needs or operational demands of the incident. The acquisition of a new mobile command vehicle is proposed as a joint initiative between the City of Dublin and Washington Township.

The total amount of funding for this project is shown in 2021. However, the City has only programmed fifty percent (50%) of the funding for the project. The completion of this project is dependent on obtaining a funding partner. Without obtaining a partnership for the project, the project will be pushed to a future year.

PP203 Automated Voice Dispatching

Currently, dispatchers must voice dispatch every fire and emergency medical call for service via radio to alert companies to respond. Using this procedure, dispatchers can only dispatch these calls one at a time. The automated voice system frees up a dispatchers time (on average 60 seconds per dispatch) by automating the dispatch process. Most importantly, the automated system allows multiple dispatches to occur simultaneously, greatly reducing dispatch delays and allowing the dispatcher to gather

**POLICE
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE**

more information while the dispatch process is occurring. This system would be a benefit for NRECC as well as all three participating fire departments. The cost of this upgrade will be billed back to the participating agencies using the existing billing formula.

Funding for this project is programmed in 2020.



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10 | Sanitary Sewer



UTILITIES - SANITARY SEWER SYSTEM

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
ES071	Sewer Lining and Repair	1,500	1,500	0	1,500	0	1,500	4,500	1,500	6,000
ES201	Annual Sanitary Sewer Maintenance Program	225	250	250	250	250	250	1,250	250	1,500
ES122	Manhole Rehabilitations	300	0	300	0	300	0	600	300	900
	TOTAL	2,025	1,750	550	1,750	550	1,750	6,350	2,050	8,400
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
ES173	Sewer Line Extensions - Areas 4B & 4C	615	0	0	0	0	0	0	0	0
ES174	Sewer Line Extensions - Areas 4A, 10C & 10D	930	0	0	0	0	0	0	0	0
ES175	Sewer Line Extensions - Areas 3A, 3B, 3C, 8A & 15	805	0	0	0	0	0	0	3,055	3,055
ES176	Sewer Line Extensions - Areas 2A, 2B & 2C	0	0	0	0	0	0	0	2,615	2,615
ES177	Sewer Line Extensions - Areas 8B & 8C	0	0	0	0	0	0	0	1,140	1,140
ES179	Deer Run Sewer Upsizing, group #1	495	2,920	0	0	0	0	2,920	0	2,920
ES178	Deer Run Sewer Upsizing, group #2	225	70	1,545	0	0	0	1,615	0	1,615
ES17A	Deer Run Sewer Upsizing - Dumfries Court	0	1,660	0	0	0	0	1,660	0	1,660
ES192	Sewer Line Extensions - Area 10A	0	0	0	0	0	0	0	1,095	1,095
ES193	Sewer Line Extensions - Area 9 & 10B	0	0	0	0	0	0	0	1,060	1,060
	TOTAL	3,070	4,650	1,545	0	0	0	6,195	8,965	15,160
2020-2024	TOTAL - SANITARY SEWERS	5,095	6,400	2,095	1,750	550	1,750	12,545	11,015	23,560
2019-2023	TOTAL - SANITARY SEWERS	3,900	4,725	2,050	1,750	550	n/a			
	\$\$ Difference	1,195	1,675	45	0	0	n/a			
	% Difference	30.6%	35.4%	2.2%	0.0%	0.0%	n/a			



UTILITIES - SANITARY SEWER SYSTEM CAPITAL MAINTENANCE

ES071 **Sewer Lining and Repair**

The funds allocated will allow for the repair and lining of the sanitary sewer lines in Dublin. The lining of the City's clay and concrete pipe will reduce inflow and infiltration (I and I) of water in the sanitary sewer system. Sewer lining repairs protect the integrity of the pipe system and reduces the amount of I and I entering the system via the main lines.

Funding programmed in 2020 will continue the lining of the Deer Run and North Fork Indian Run sewer sheds comprising of nearly 32,410 linear feet of 8"-15" sanitary sewer, encompassing the following subdivision areas: Muirfield Village Sections 1, 23, and 36, Moors at Muirfield, Muirfield Greene, Lochslee Condominiums, Muirfield Square, Berkshire Commons, and Muirfield Association Office/ South Pool and River Forest.

Funding shown in year 2022 and 2024 is provided to continue the work. Sanitary sewer mains will continue to be evaluated for lining beyond 2024, along with rate studies. The funding source for this project will be from future debt issuance.

ES201 **Annual Sanitary Sewer Maintenance Program**

Funding provides for an annual allocation to maintain and repair sanitary sewer infrastructure including raising manholes, and various other issues identified during inspections.

ES122 **Manhole Rehabilitations**

This project provides for the repair of sanitary sewer manholes in accordance with the "Director's Final Findings and Orders" issued by the Ohio Environmental Protection Agency (OEPA). This project provides for repairs to the integrity of the manholes and reduces the amount of inflow and infiltration I and I entering the system via the main lines.

Funding is programmed on a bi-annual cycle. Funding for this project will be from the Sewer Fund.



UTILITIES - SANITARY SEWER SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Sanitary Sewer Line Extensions

This project will systematically provide access to the areas of the City not currently on the public sanitary sewer system based on the priorities of City Council policy (adopted December 7, 2015), inspection data, and evaluation provided by the Franklin County Board of Health. The City's Administration is planning to conduct a water/sewer rate study sometime in 2019. The study is to determine the rate structure that needs to be in place in order to provide sufficient funding for the maintenance of the City's existing systems into the future. The outcome of this analysis will provide information to determine the amount, if any, from the General Fund and/or Capital Improvement Tax Fund that will be needed to fund these extensions.

These projects will provide lift stations, force mains, and 8" & 10" public sanitary sewer utility extensions. These projects are funded from the Sewer Fund; however, an annual allocation from the General Fund will provide for partial funding, along with debt issuance.

ES173 Sewer Line Extensions – Areas 4B & 4C

Area 4B – Bright Road parcels 8" sewer extension and Area 4C – Grandee Cliff's 8" sewer extension. Easement acquisition for this project is on-going. Construction is scheduled to be bid in 2019.

Locations: Area 4B - 4396 - 4760 Bright Road (5 parcels); Area 4C - Grandee Cliffs Subdivision (19 parcels) & 4163, 4254, 4295, 4300, 4321, 4333, 4338, 4345 & 4355 Bright Road (9 parcels).

ES174 Sewer Line Extensions – Areas 4A, 10C & 10D

Area 4A, 10C & 10D – Force main, lift stations and a proposed 8" sewer extension in the designated areas. Design and acquisition were programmed in 2018 with construction in 2019 with the Tuttle Crossing Boulevard and Avery Road Improvement Project. This project will provide 41 parcels access to sanitary sewer service.

Locations: Area 4A - River Knolls Subdivision (11 parcels) and 7049–7575 Riverside Drive (8 parcels); Area 10C – 5300–5474 Dublin Road (12 parcels); Area 10D – 5480– 5680 Dublin Road (10 parcels).

ES175 Sewer Line Extensions – Areas 3A, 3B, 3C, 8A & 15

Area 3A, 3B, 3C, 8A & 15 – Force main, lift station and 8" and 10" sewer extensions. Design and acquisition are programmed in 2019 with construction reflected beyond the five-year program period.



UTILITIES - SANITARY SEWER SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Locations: Area 3A – 7591–7871 Riverside Drive (16 parcels), 7690-7778 Riverside Drive (7 parcels); Area 3B – 7879-8015 Riverside Drive (13 parcels), 7960-8000 Riverside Drive (3 parcels), 4545 and 4575 Summit View Road; Area 3C - Woodlands 1 & 2, Drexel Hills Terrace (40 parcels); Area 8A – Avery Road/Cara Road/Cara Court (25 parcels); Area 15 – 7400-7422 Avery Road (2 parcels). Area 8A – Avery Road/ Rings Road/ Cara Road/ Cara Court (25 parcels).

ES176 Sewer Line Extensions – Areas 2A, 2B & 2C

Area 2A, 2B & 2C - Force main, lift station and 8" and 10" sewer extensions. This project is reflected beyond the five-year program period. One hundred and fifty-seven (157) parcels will receive access to sanitary sewer service. O'Shaughnessy Hills lot configuration does not represent typical lot service.

Locations: Area 2A – 4315-4501 Summit View Road (9 parcels) and 4555 Summit View Road, O'Shaughnessy Hills (17 parcels) and 4424-4500 Summit View Road (5 parcels) and Blank Lot; Area 2B - Laura Hills – 8159-8449 Riverside Drive (16 parcels); Area 2C – O'Shaughnessy Hills (108 parcels).

ES177 Sewer Line Extensions – Areas 8B & 8C

Design and construction for Area 8B & 8C is reflected beyond the five-year program period.

Locations: Area 8B - 8" sanitary sewer extension at rear property lines of Wilcox Road properties - North and South of Rings Road, Area 8C - 8" sanitary sewer extension in Old Wilcox Rd. from North of Tuttle Crossing Blvd. to Wilcox Road.

ES179 Deer Run Sanitary Sewer Upsizing, Group #1

As identified in the Deer Run Sewer Modeling Report, this project provides funding for the installation of a new pump station near MH#3902, west of Dublin Road between Reserve Drive and Glenaire Drive, and installation of a new 12" force main from MH#3902 along Dublin Road to MH#2772, near the 7118 Dublin Road property. There were previous sanitary sewer overflow (SSO) events that prompted the modeling efforts of the Deer Run Sewer shed leading to this proposed improvement. The June 20th, 2016 rainfall event which created SSO and water-in-basement (WIB) events further necessitates the need to perform this improvement in the Deer Run sewer shed.

Site acquisition is programmed in 2019 and construction in 2020.



UTILITIES - SANITARY SEWER SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ES178 **Deer Run Sanitary Sewer Upsizing, Group #2**

This project provides funding for the proposed upsizing of sanitary sewer pipe from 12" to 15" at Muirfield Court into Muirfield Village Golf Course, and another upsizing of sanitary sewer pipe from 15" to 18" along the rear properties between Dunblane Court and Crail Court. There were previous sanitary sewer overflow (SSO) events that prompted the modeling efforts of the Deer Run Sewer shed leading to this proposed improvement. The June 20th, 2016 rainfall event which created SSO and water-in-basement (WIB) events further necessitates the need to perform this improvement in the Deer Run sewer shed.

Design is programmed in 2019, site acquisition in 2020, and construction in 2021.

ES17A **Deer Run Sanitary Sewer Upsizing – Dumfries Court**

This project provides funding for installation of a sanitary sewer and a separate pump station and force main in Dumfries Court east (Carnoustie Drive area). There were previous sanitary sewer overflow (SSO) events that prompted the modeling efforts of the Deer Run Sewer shed leading to this proposed improvement. The June 20th, 2016 rainfall event which created SSO and water-in-basement (WIB) events further necessitates the need to perform this improvement in the Deer Run sewer shed.

This project is programmed for 2020.

ES192 **Sewer Line Extensions – Area 10A**

This project provides for an 8" sanitary sewer extension to Thornhill Lane and Dublin Road. This will provide direct access to the public sanitary sewer system.

Design and construction is reflected beyond the five-year program period.

ES193 **Sewer Line Extensions – Areas 9 & 10B**

This project provides for public sanitary sewer utility extension to existing developed areas that need direct access to the public sanitary sewer system.

Locations: Area 9 - 8" sanitary sewer extension at Olde Dublin Woods Drive, Betonywood Place, Red Oak Lane, and Hirth Road. Area 10B – 8" sanitary sewer extension and lift station to serve Locust Hill Lane.

Design and construction is reflected beyond the five-year program period.



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11 | Stormwater



UTILITIES - STORMWATER MANAGEMENT

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
AF201	Annual Stormwater Maintenance	575	575	575	575	575	575	2,875	575	3,450
AF202	Ditch Maintenance	0	0	100	0	100	0	200	100	300
	TOTAL	575	575	675	575	675	575	3,075	675	3,750
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
EF181	Rings Farm Stream Relocation	150	1,240	0	0	0	0	1,240	0	1,240
EF200	Allocation for Various Stormwater Improvements	250	250	250	250	250	250	1,250	250	1,500
	TOTAL	400	1,490	250	250	250	250	2,490	250	2,740
2020-2024	TOTAL - STORMWATER	975	2,065	925	825	925	825	5,565	925	6,490
2019-2023	TOTAL - STORMWATER	1,485	825	925	825	925	n/a			
	\$\$ Difference	(510)	1,240	0	0	0	n/a			
	% Difference	-34.3%	150.3%	0.0%	0.0%	0.0%	n/a			



UTILITIES - STORMWATER MANAGEMENT CAPITAL MAINTENANCE

Note: The Capital Improvement Tax Fund is the source of funding for all of the stormwater projects.

AF201 **Annual Stormwater Maintenance**

This project provides for annual funding of maintenance for the City's stormwater system as identified in the Stormwater Master Plan. This program was initiated in 2000 to maintain the stormwater management system, to convey stormwater, and prevent flooding. The funding is utilized to maintain and repair existing storm sewer lines, curb inlets, catch basins, man-made channels and other structures that discharge stormwater runoff. This is an important component of the City's efforts to meet National Pollutant Discharge Elimination System (NPDES) Phase II regulations. The annual allocations will be used to fund two projects: Inlet maintenance and miscellaneous maintenance on a task order basis.

Funding is allocated annually in the five-year program period to continue the repair of curb inlets in the storm structure maintenance program.

AF202 **Ditch Maintenance**

The ditch maintenance program was initiated in 2017. This project provides funding for maintenance of the City's roadside ditches and waterway systems. Funds will be utilized to maintain and repair existing ditches, man-made channels, and waterways that convey stormwater runoff. This is another important component of the City's efforts to meet National Pollutant Discharge Elimination System (NPDES) Phase II regulations.

Funding is programmed in the five-year program period on a biennial basis.



UTILITIES - STORMWATER MANAGEMENT CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

EF181 **Rings Farm Stream Relocation**

This project provides for the relocation of approximately 2,700 lineal feet of Cosgray Ditch. This project is located on a 72-acre parcel owned by the City, at 6600 Shier Rings Road. Relocating the stream is necessary to accommodate the realignment of Shier Rings Road as part of future development. Relocation of the stream is required prior to relocation of the roadway.

Funding was programmed in 2018 for permitting with the Army Corp of Engineers. Design was funded in 2019 and construction is programmed in 2020.

EF200 **Allocation for Various Stormwater Improvements**

An annual funding allocation over the next five years has been programmed for various improvement needs identified in the Stormwater Master Plan completed by Camp, Dresser & McKee (CDM) (2009). Projects will be completed and prioritized as funding is available. The funds are utilized to maintain and repair existing storm sewers, curb inlets, catch basins, ditches, man-made channels and other structures that discharge stormwater runoff. This is an important component of the City's efforts to meet National Pollutant Discharge Elimination System (NPDES) Phase II regulations.



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12 | Technology



INFORMATION TECHNOLOGY

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
AI201	Information Technology	900	900	900	900	900	900	4,500	0	4,500
AI202	Smart Cities Initiative	200	200	200	200	200	200	1,000	0	1,000
Fiber										
AI172	Connected Vehicles Systems Infrastructure	50	50	50	50	50	50	250	0	250
AI183	US33 COG Infrastructure	50	75	75	75	75	75	375	0	375
AI194	Fiber Optic and Traffic Fiber Enhancements	120	390	390	390	120	120	1,410	0	1,410
AI203	Data Platform	0	275	150	150	150	150	875	0	875
2020-2024	TOTAL	1,320	1,890	1,765	1,765	1,495	1,495	8,410	0	8,410
2019-2023	TOTAL - INFO TECNOLOGY	1,320	1,320	1,320	1,320	1,320	n/a			
	\$\$ Difference	0	570	445	445	175	n/a			
	% Difference	0.0%	43.2%	33.7%	33.7%	13.3%	n/a			



INFORMATION TECHNOLOGY CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Note: The Capital Improvement Tax Fund is the source of funding for all of the IT projects unless otherwise noted.

AI201 Computer Hardware/Software (General IT)

Technology projects include citywide shared services upgrades, replacement and additions to the existing IT infrastructure, GIS/Data systems and security technologies. Also included in Citywide projects are client device procurements, collaborative technology upgrades and delivery of enterprise software solutions. Project initiatives across several departments are noted which support the enhancement of City of Dublin operations and help realize the benefits of new technologies. These technology upgrades are necessary to secure the City's network, protect sensitive data, provide for scalability and ensure the availability of network operations. Technology projects also support maintenance and enhancement needs, account for the expansion of resources and emerging technologies, and the drive for efficiency and effectiveness of City operations. Projects are submitted in alignment with department leaders and the City's common goals. The ability to maintain, grow and transform the City's technology environment is crucial to meeting the needs and expectations of the community and staff.

The annual requests reflect the five-year Technology Strategic Plan that has been developed by the IT Department. The projects programmed for the five-year program period were constructed in a collaborative manner with other City Departments and Staff.

The annual requests reflect the five-year Technology Strategic Plan that has been developed by the IT Department. The projects programmed for the five-year program period were constructed in a collaborative manner with other City Departments and Staff.

The funding source for most of the projects is the Capital Improvements Tax Fund, however, the Sewer Fund and the Hotel/Motel Tax Fund will be the funding source for projects related to those funds (as applicable).



INFORMATION TECHNOLOGY 5 YEAR BUDGET PLAN 2020-2024 (PROJECT #AI201)

Dept/Div	2020	
Citywide	Network Comm & Management	\$120,000
	Enterprise Software Licensing	\$40,000
	Security Technologies	\$60,000
	Enterprise Storage Systems	\$65,000
	Network Server Upgrades	\$35,000
	Client PC & Monitor New/Refresh	\$90,000
	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$15,000
	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$20,000
	GIS/Data Infrastructure	\$15,000
	GIS/Data Enterprise Software	\$25,000
	GIS Aerial Photos	\$50,000
OCM		
Court Services	Court Technology Enhancements	\$10,000
CPI	CPI Technology Platforms	\$10,000
HR	Training Area Enhancements	\$10,000
Bldg Stds	Eplan Enhancements	\$10,000
Economic Dev		
Planning	Accela Systems Enhancements	\$10,000
Finance	MUNIS/ERP & Tax Upgrades	\$30,000
Police	Records/Dispatch/Mobile Upgrades	\$25,000
	Mobile Computer Upgrades	\$25,000
	Cruiser Technology Enhancements	\$20,000
	Dispatching Records Interfacing	\$40,000
Streets & Utilities	Crew Mobilization Technology	\$15,000
Facilities	Security Camera Upgrades	\$10,000
	Renovation Requirements	\$10,000
Fleet	Fleet/Fuel System Enhancements	\$15,000
Public Works	Workforce Mobilization	\$8,000
Engineering	Traffic Signal Timing Upgrade	\$6,000
Events	Events Technology Upgrades	\$10,000
Community Outreach	Technology Enhancements	\$6,000
Parks		
Recreation	Technology Enhancements	\$12,000
	Web/RecTrac Addl Licenses	\$8,000
Total		\$900,000



INFORMATION TECHNOLOGY 5 YEAR BUDGET PLAN 2020-2024 (PROJECT #AI201)

Dept/Div	2021	
Citywide	Network Comm & Management	\$120,000
	Enterprise Software Licensing	\$50,000
	Security Technologies	\$55,000
	Enterprise Storage Systems	\$70,000
	Network Server Upgrades	\$35,000
	Client PC & Monitor New/Refresh	\$85,000
	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$8,000
	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$20,000
	GIS/Data Infrastructure	\$25,000
	GIS/Data Enterprise Software	\$20,000
	GIS Aerial Photos	\$40,000
OCM		
Court Services	IJS Upgrade	\$12,000
CPI	CPI Technology Platforms	\$10,000
HR	HR Management System Upgrades	\$10,000
Bldg Stds	Accela Systems Enhancements	\$15,000
Economic Dev		
Planning	Eplan Utilization/Enhancements	\$10,000
Finance	Kronos Upgrade / Workforce Dimensions	\$15,000
Police	Records/Dispatch/Mobile Upgrades	\$25,000
	Mobile Computer Upgrades	\$50,000
	Cruiser Technology Enhancements	\$30,000
Streets & Utilities	Sewer Inspection Software Upgrade	\$10,000
Facilities	Security Camera Upgrades	\$15,000
	Renovation Requirements	\$5,000
Fleet	Fleet/Fuel System Enhancements	\$10,000
Public Works	Customer Service Mgt Upgrades	\$10,000
Engineering	Signal Timing Database Enhancements	\$10,000
	Plotter Upgrade	\$30,000
Events	Events Technology Upgrades	\$10,000
Community Outreach		
Parks	CIMS Enhancements	\$5,000
Recreation	Technology Enhancements	\$15,000
Total		\$900,000



INFORMATION TECHNOLOGY 5 YEAR BUDGET PLAN 2020-2024 (PROJECT #AI201)

Dept/Div	2022	
Citywide	Network Comm & Management	\$120,000
	Enterprise Software Licensing	\$60,000
	Security Technologies	\$75,000
	Enterprise Storage Systems	\$65,000
	Network Server Upgrades	\$40,000
	Client PC & Monitor New/Refresh	\$90,000
	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$10,000
	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$20,000
	GIS/Data Infrastructure	\$25,000
	GIS/Data Enterprise Software	\$20,000
	GIS Aerial Photos	\$50,000
OCM		
Court Services	Court Technology Enhancements	\$5,000
CPI	CPI Technology Platforms	\$12,000
HR	Training Technology Enhancements	\$10,000
Bldg Stds	Eplan Enhancements	\$15,000
Economic Dev		
Planning	Accela Systems Enhancements	\$10,000
Finance	ERP Enhancements	\$15,000
Police	Records/Dispatch/Mobile Upgrades	\$30,000
	Mobile Computer Upgrades	\$50,000
	Cruiser Technology Enhancements	\$35,000
Streets & Utilities		
Facilities	Security Camera Upgrades	\$10,000
	Renovation Requirements	\$10,000
Fleet	Fleet/Fuel System Enhancements	\$16,000
Public Works		
Engineering		
Events	Events Technology Upgrades	\$10,000
Community Outreach		
Parks		
Recreation	Technology Enhancements	\$12,000
	Web/RecTrac Licenses	\$10,000
Total		\$900,000



INFORMATION TECHNOLOGY 5 YEAR BUDGET PLAN 2020-2024 (PROJECT #AI201)

Dept/Div	2023	
Citywide	Network Comm & Management	\$125,000
	Enterprise Software Licensing	\$50,000
	Security Technologies	\$75,000
	Enterprise Storage Systems	\$60,000
	Network Server Upgrades	\$40,000
	Client PC & Monitor New/Refresh	\$90,000
	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$10,000
	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$25,000
	GIS/Data Infrastructure	\$25,000
	GIS/Data Enterprise Software	\$20,000
	GIS Aerial Photos	\$40,000
OCM		
Court Services		
CPI	CPI Technology Platforms	\$12,000
HR	HR Management System Upgrades	\$10,000
Bldg Stds	Accela Systems Enhancements	\$10,000
Economic Dev		
Planning	Eplan Utilization/Enhancements	\$10,000
Finance	MUNIS/ERP Upgrade	\$12,500
Police	Records/Dispatch/Mobile Upgrades	\$30,000
	Mobile Computer Upgrades	\$50,000
	Cruiser Technology Enhancements	\$35,000
Streets & Utilities		
Facilities	Security Camera Upgrades	\$10,000
	Renovation Requirements	\$8,000
Fleet	Fleet/Fuel System Enhancements	\$10,000
Public Works	Customer Service Mgt Upgrades	\$10,000
Engineering	Signal Timing Database Enhancements	\$10,000
	CAD/ArcView Enhancements	\$15,000
Events	Events Technology Upgrades	\$10,000
Community Outreach		
Parks		
Recreation	Technology Enhancements	\$12,500
	WebTrac/RecTrac Upgrade	\$10,000
Total		\$900,000



INFORMATION TECHNOLOGY 5 YEAR BUDGET PLAN 2020-2024 (PROJECT #AI201)

Dept/Div	2024	
Citywide	Network Comm & Management	\$125,000
	Enterprise Software Licensing	\$60,000
	Security Technologies	\$85,000
	Enterprise Storage Systems	\$60,000
	Network Server Upgrades	\$40,000
	Client PC & Monitor New/Refresh	\$90,000
	Mobile Devices New/Refresh	\$50,000
	Conference Room Equipment	\$10,000
	Misc Hardware/Software	\$25,000
	GIS/Data Warehousing	\$25,000
	GIS/Data Infrastructure	\$25,000
	GIS/Data Enterprise Software	\$20,000
	GIS Aerial Photos	\$50,000
OCM		
Court Services	Court Technology Enhancements	\$5,000
CPI	CPI Technology Platforms	\$12,000
HR	Training Technology Enhancements	\$10,000
Bldg Stds	EPlan Enhancements	\$10,000
Economic Dev		
Planning	Accela Systems Enhancements	\$10,000
Finance		
Police	Records/Dispatch/Mobile Upgrades	\$30,000
	Mobile Computer Upgrades	\$50,000
	Cruiser Technology Enhancements	\$35,000
Streets & Utilities		
Facilities	Security Camera Upgrades	\$10,000
	Renovation Requirements	\$8,000
Fleet	Fleet/Fuel System Enhancements	\$10,000
Public Works		
Engineering	CAD/ArcView Enhancements	\$15,000
Events	Events Technology Upgrades	\$10,000
Community Outreach		
Parks		
Recreation	Technology Enhancements	\$10,000
	WebTrac/RecTrac Licenses	\$10,000
Total		\$900,000



INFORMATION TECHNOLOGY

AI2092 Smart Cities Initiative - Dublin Smart and Connected Community

The City of Dublin has become a focal point in Central Ohio for Smart City experimentation, Smart Mobility testing, and Smart Transportation development. The city has initiated projects around Smart Parking, IoT, Artificial Intelligence, Broadband, Big Data, Predictive Analytics, Data Visualization, Cybersecurity, Unmanned Aerial Vehicles, Connected and Autonomous Vehicles. The City administration is transitioning from a traditional work environment to a digital organizational model. The City of Dublin needs appropriate facilities, demonstration and display technology to manage, grow, display and educate both staff and the community about these developments. The experimentation, testing, and implementation of these technologies serves not only to provide access to new tools and data, but also as an economic development to attract innovative businesses to relocate to Dublin.

The City seeks to establish initiatives to seed and grow these technology initiatives, attract attention from industry and the public, enhance our reputation as the technology hub of Central Ohio, and compete with similar projects in the region. Funds will be invested in equipment, displays, visualizations, applications, infrastructure, enterprise systems, consulting, design, and facilities. Projects include:

- Dublin Smart Community Connect - deploying sensors, cameras, wireless signal, devices, software to streets and neighborhoods.
- Smart Parking - using sensors to gather, analyze and communicate data on parking resources and patterns.
- Wireless Services - providing network services to the public and businesses.
- Data, Analytics, and Artificial Intelligence/Machine Learning.
- Public facing facilities to promote data access, transparency, and interactivity, including apps, web, and displays.

Funding allocated in the CIP will be used for the capital investment, design, and implementation services needed to establish the display technologies and necessary facilities. Operating expenditures will be funded through the City's General Fund and established as part of the 2020 Operating Budget (if necessary).



INFORMATION TECHNOLOGY

Fiber Projects:

AI172 Connected Vehicles Systems Infrastructure

An annual funding allocation has been programmed to provide for wireless vehicle communication applications and equipment for short-range communication (DSRC) technology for use in vehicle-to-vehicle communication and vehicle-to-vehicle roadside communication. This includes funding necessary to place devices inside fleet vehicles and to implement systems within traffic engineering infrastructure, such as cameras, sensors, fiber, and wireless networks allowing vehicles to communicate with each other and with traffic systems. These funds also count towards matching requirements allowing the majority of project funds to be provided by a federal grant for Connected Vehicles research.

AI183 US33 COG Infrastructure

This project funding has been programmed to implement technologies for connected vehicles systems inside the City consistent with Smart Cities Mobility research being conducted by Battelle and the OSU Center for Automotive Research. The first phase of the project is along the US 33 corridor from Dublin to East Liberty, Ohio, 35 miles of four-lane, limited access highway. This section of US 33 is called the "The 33 Smart Mobility Corridor," and will be equipped by the Ohio Department of Transportation (ODOT) with high-capacity fiber optic cable to instantaneously link researchers and traffic monitors with data from embedded and wireless sensors along the roadway. These links will allow premier automotive research and testing of smart transportation technologies, on a highway that carries up to 50,000 vehicles per day through rural and urban settings in a full range of weather conditions. These connections will give automobile researchers the ability to collect data as they safely test smart transportation technologies; including autonomous and connected vehicles in all weather conditions. This data will also provide more frequent and accurate traffic counts, weather and surface condition monitoring, and incident management improvements.

Funding is programmed annually for the City's share of this project. The expenses are shared between the City of Dublin, City of Marysville and Union County, and include such expenses as legal services, fiber maintenance, and insurance.

AI194 Fiber Optic and Traffic Fiber Enhancements

Funding is provided in the five-year period based on a forecasted need to continually update, extend and enhance the City's fiber optic system. This includes system extensions, laterals, data center enhancements and connectivity, as well as infrastructure for traffic engineering throughout the Dublink system.



INFORMATION TECHNOLOGY

AI203 **Data Platform**

Annual funding is provided for the Data Platform project to support the City of Dublin's data strategy, and the continuation of project efforts to build the foundation for hosted data services. This includes, and is not currently limited to, modernizing the data assets of the City on a centralized infrastructure/platform for the purpose of data warehousing and enabling business intelligence capabilities. These capabilities include optimized decision making, and realization of operational efficiencies through centralized performance reporting, self-service data analytics, and artificial intelligence capabilities. This project also supports the strategic goals for Smart City, Smart Mobility, and Connected Community initiatives.

13 | Transportation - Bicycles & Pedestrian



TRANSPORTATION - BICYCLES AND PEDESTRIAN

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
AT203	Annual Shared Use Path Maintenance	380	250	370	255	285	430	1,590	380	1,970
AT206	Annual Sidewalk Program	250	250	250	250	250	250	1,250	250	1,500
AT179	Historic Dublin Brick Sidewalk Maintenance	60	60	60	60	60	60	300	60	360
	TOTAL	690	560	680	565	595	740	3,140	690	3,830
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
ET171	Glick Road (section 3) SUP	385	0	0	0	0	0	0	0	0
ET16L	Perimeter Drive: Avery-Muirfield to Holt Road (TIF) Sidewalk	0	0	0	350	0	0	350	0	350
ET16M	Shier Rings Road: Eiterman to Cosgray Shared-use Path	0	0	0	0	40	80	120	315	435
ET16J	Concord Road Shared-Use Path	50	0	0	0	0	0	0	0	0
ET172	Riverside Drive East Shared-Use Path, section 1	110	0	1,085	0	0	0	1,085	0	1,085
ET173	Riverside Drive East Shared-Use Path, section 2	0	0	0	0	0	0	0	710	710
ET174	Riverside Drive East Shared-Use Path, section 3	0	0	0	0	0	0	0	925	925
ET201	Riverside Drive West	0	0	0	0	0	465	465	0	465
ET175	Dublin Center Drive Shared-Use Path (TIF)	0	0	0	25	30	0	55	155	210
ET179	Summit View Road Shared-Use Path	0	0	0	0	0	0	0	480	480
ET176	Avery Road Sidewalk Connections (Hyland Drive to Tara Hill)	0	15	75	0	0	0	90	310	400
ET177	Wedgewood Hills Park Shared-Use Path	0	0	0	0	0	0	0	260	260
ET178	Wilcox Road Shared-Use Path (Northcliff to Heather Glen Blvd and Wilcox Place to Shier Rings Road)	0	35	160	0	0	0	195	430	625
ET182	Brand Road Shared-Use Path, Townsend Drive to Avery Road	0	0	0	0	0	0	0	710	710
ET183	Dublin Road Shared-Use Path, Frantz Road to Limestone Ridge Drive	0	0	0	0	0	345	345	2,500	2,845
ET190	Shannon Park Sidewalk Improvements	0	0	0	0	0	0	0	510	510
	TOTAL	545	50	1,320	375	70	890	2,705	7,305	10,010
2020-2024	TOTAL - BICYCLES AND PEDESTRIAN	1,235	610	2,000	940	665	1,630	5,845	7,995	13,840
2019-2023	TOTAL - BICYCLES AND PEDESTRIAN	1,225	740	2,012	1,060	750	n/a			
	\$\$ Difference	10	(130)	(12)	(120)	(85)	n/a			
	% Difference	0.8%	-17.6%	-0.6%	-11.3%	-11.3%	n/a			



TRANSPORTATION – BICYCLES AND PEDESTRIAN CAPITAL MAINTENANCE

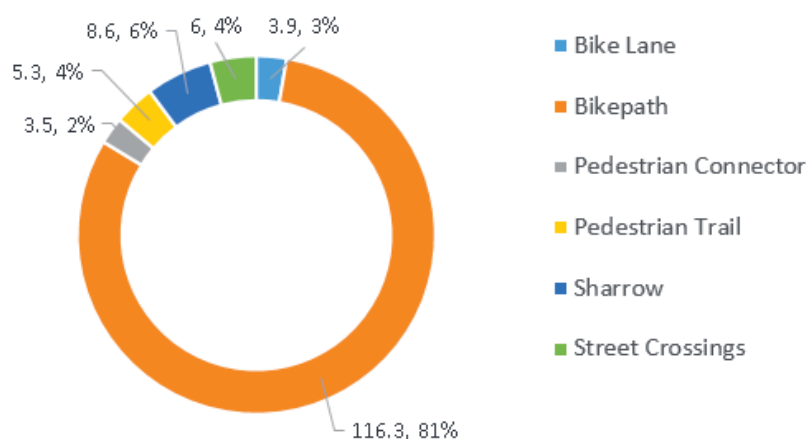
Note: The Capital Improvement Tax Fund is the source of funding for all of the bicycle and pedestrian projects unless otherwise noted.

AT193 **Annual Shared-Use Path Maintenance**

Funding for this project includes an annual allocation for maintenance of the City's shared-use paths along with funding to replace or overlay portions of the shared-use paths. Preventive maintenance activities will extend the life of the path system. A five-year work plan was created considering the work types of: replacement, resurfacing, crack sealing, and seal coating. A comprehensive work plan for shared-use path maintenance is on file in the Public Works Department.

The Infrastructure Asset Management work unit inspects the shared-use paths annually. There are currently almost 143.7 miles of public bike facilities within the Dublin corporation limits not including the private Muirfield Association path system. The system is comprised of shared-use paths, bike lanes, pedestrian connectors, pedestrian trails, sharrows, and street crossings. Shared-use paths comprise 81% of the system. In order to create a comprehensive maintenance plan for the bikepath system, the entire system was inventoried and inspected and a condition score was calculated for each path segment. In addition to generating the condition score, the inspection also produced recommended repairs. The current overall average condition of the shared-use paths is 64.1/100 with a goal of an average 70 rating citywide. The condition score has recently been dropped due to a more stringent inspection criteria being used. In the prior year's CIP, the condition score was reported to be 80/100.

Bikeway Categories





TRANSPORTATION - BICYCLES AND PEDESTRIAN

AT196 Annual Sidewalk Program

Funding for this project provides an annual allocation for sidewalk maintenance within the City limits through replacement and shaving methods, thus reducing trip hazards and making Dublin a more walkable community. A comprehensive sidewalk work plan is on file with the Public Works Department.

The responsibility of sidewalk maintenance has long been a subject of discussion for City Council and staff. In the spring of 2017, Staff performed an updated citywide sidewalk condition assessment. Dublin's sidewalk network consists of 195 miles of sidewalk. The vast majority of the network is concrete; however, there is a small area of paver construction sidewalks in the Muirfield area, a small area of brick sidewalks in Historic Dublin, and several locations of experimental rubber sidewalks.

Inspections were performed to determine types of repairs needed, and the quantity of repairs. The repairs were then categorizing by the observed cause of the damage. The method of repairs were divided into two categories: sidewalk shaving and sidewalk replacement. The causes were broken into three categories:

1. Damage due to street tree roots (trees in the tree lawn area between the street and sidewalk)
2. Damage due to public city utility lines (sunken, broken, or shifted panels due to a buried public City utility line)
3. Other (raised, sunken, cracked, spalled, or otherwise damaged sidewalks due to owner-placed trees or no obvious reason)

AT179 Historic Dublin Brick Sidewalk Maintenance

This project provides an annual allocation to perform a high-pressure power wash, reset low spots, replace chipped/broken bricks, clean away vegetation along the edges, re-sand the joints of the existing brick sidewalks, and expand brickwork from existing walk to curb line where practical throughout the District. There is approximately 36,000 square feet of brick sidewalk in the District. The areas of focus will be south and north High Street, Bridge Street, Mill Lane, "Frog" Plaza, behind Old Dublin Town Center 1 (ODTC 1), Darby Street and the walkway between N. High Street and Darby on the north side of Tucci's Restaurant.



TRANSPORTATION – BICYCLES AND PEDESTRIAN CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ET171 **Glick Road Shared-Use Path, section 3**

This project provides funding for the construction of 2,200 feet of shared-use path on the south side of Glick Road between Carnoustie Drive and Muirkirk Drive. The project includes a prefabricated bridge over Deer Run.

Funding for this project is programmed in 2019, although there has been an on-going issue with easement acquisition for this project causing delays. Funding for landscaping covers the replacement of trees removed by the project. Approximately 16 trees will be replaced as part of this project.

ET16L **Perimeter Drive: Avery-Muirfield to Holt Road Sidewalk**

This project constructs 2,500 feet of five-foot sidewalk along the north side of Perimeter Drive. This connection will provide safe pedestrian access along the north side of Perimeter Drive. An eight-foot asphalt path alignment was reviewed, but it was determined that it would require removal of too many mature trees. Additionally, an eight-foot asphalt path already exists on the south side of Perimeter Drive.

Site acquisition, construction, landscaping and utility relocation is programmed in 2022. Funding for the project will be from the Perimeter Center TIF Fund.

ET16M **Shier Rings Road Shared-Use Path**

This project will design and construct approximately 2,175 feet of eight-foot asphalt shared use path along Shier Rings Road. The project is located on the south side of Shier Rings Road between Cosgray Road and just west of Eiterman Road.

Design is programmed for 2023, site acquisition in 2024, and construction is reflected beyond the five-year program period, and will be re-evaluated as development occurs.

ET16J **Concord Road Shared-Use Path**

This project provides for construction of a shared-use path connection from Glick Road north to Eli Pinney Elementary School (which is outside of the City's jurisdiction). Residents in the area have requested this connection. Staff is discussing the path alignment and funding participation with Delaware County and Concord Township, as only a portion of the path is within the Dublin Corporate Limits. In 2017, Dublin constructed the first phase of the path from the tunnel at Glick Road to St. Boswell Court. Funding programmed in 2019 is an allowance for the Dublin contribution to Concord Township's project to complete the connection to Eli Penney Elementary School.



TRANSPORTATION – BICYCLES AND PEDESTRIAN CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ET172 Riverside Drive East Shared-Use Path, Section 1

This project provides for funding the construction of 3,000 feet of eight-foot asphalt shared use path on the east side of Riverside Drive between Emerald Parkway and the existing path at the southern edge of Riverside Woods.

Design for this section of the project is programmed in 2019 while site acquisition and construction is programmed in 2021.

ET173 Riverside Drive East Shared-Use Path, Section 2

This project provides for funding the construction of 1,400 feet of eight-foot asphalt shared use path on the east side of Riverside Drive between Tonti Drive and the existing path at the southern edge of Wyandotte Woods.

Design, site acquisition and construction is reflected beyond the five-year program period.

ET174 Riverside Drive East Shared-Use Path, Section 3

This project provides for funding the construction of 3,525 feet of eight-foot asphalt shared use path on the east side of Riverside Drive between Arrowhead Drive and the northern corporation limit (2,575 feet) and will tie into the path in Wedgewood Hills Park (750 feet).

Design, site acquisition and construction is reflected beyond the five-year program period.

ET201 Riverside Drive West

This project provides for the design and construction of approximately 950 feet of eight-foot asphalt shared-use path on the west side of Riverside Drive between Emerald Parkway and the Dublin Arts Council at 7125 Riverside Drive. This connection will provide safe pedestrian access to the Dublin Arts Council building and provide connection to the overall path system.

Design, site acquisition, and construction is programmed in 2024.

ET175 Dublin Center Drive Shared-Use Path

This project provides for funding the construction of 618 feet of eight-foot asphalt shared use path on Dublin Center Drive between Stoneridge land and West Dublin-Granville Road.

Design is programmed in 2022, site acquisition in 2023, and construction is reflected beyond the five-year program period. The Shamrock Crossing TIF will be used to fund this project.

**TRANSPORTATION – BICYCLES AND PEDESTRIAN
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE****ET179 Summit View Road Shared-Use Path**

This project provides for the construction of 1,150 feet of eight-foot asphalt shared use path on the north side of Summit View Road between Wedgewood Hills Park and Campden Lake Boulevard, and for planting approximately 20 street trees.

The project is reflected beyond the five-year program period.

ET176 Avery Road Sidewalk Connections (Hyland Drive to Tara Hill Drive)

This project provides for funding construction of pedestrian route connections along Avery Road. This project was requested by the residents in the area to facilitate connectivity of the sidewalk system, and to correct missing sidewalk connections along the east side of Avery Road from Hyland Drive to Tara Hill (~340 LF). Project programming estimates includes a 10% contingency and allocation for utility relocation for possible pole conflicts with alignment.

Design and utility relocation is programmed in 2020 with construction programmed in 2021. Funds reflected beyond the five-year program period are for two additional locations: Tara Hill to Manteo Drive (~630 LF), and St Mel Court to Avery Road Park south lot area (500 LF). These projects will be re-evaluated as funding becomes available.

ET177 Wedgewood Hills Park Shared-Use Path

This project provides for the construction of 1,235 feet of eight-foot asphalt shared-use path in Wedgewood Hills Park, on the north side of Summit View Road. This project provides additional connectivity in the shared-use path system.

Design and construction is reflected beyond the five-year program period.

ET178 Wilcox Road Shared-Use Path

This project provides for funding the construction of 1,070 feet of eight-foot asphalt shared use path on Wilcox Road between Northcliff and Heather Glen Blvd. A crossing will be built at Lothian. Design is programmed in 2020, with construction funded in 2021.

The subsequent phase to the project will provide for approximately 720 feet of eight-foot asphalt pathway along the west side of Wilcox Road from Wilcox Place to Shier Rings Road. Included in this project is a culvert extension to accommodate the path. Funding for this portion of the project is reflected beyond the five-year program period.



TRANSPORTATION – BICYCLES AND PEDESTRIAN CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

ET182 Brand Road Shared-Use Path, Townsend Drive to Avery Road

This project provides funding to design and construct approximately 1,390 feet of eight-foot asphalt share-use path along Brand Road. The shared-use path is planned on the south side of Brand Road between Townsend Drive and Avery Road. This project was requested by residents in the area as connectivity to the Indian Run Methodist Church on Brand Road.

This connection will provide safe pedestrian access along Brand Road and connect to the overall path system. Design and construction is reflected beyond the five-year program period.

ET183 Dublin Road Shared-Use Path, Frantz Road to Limestone Ridge Drive

This project provides for design and construction of approximately 2,775 feet of 8-foot asphalt shared-use path along Dublin Road. The shared-use path is planned on the west side of Dublin Road between Frantz Road and Limestone Ridge Drive. This connection will provide safe pedestrian access along Dublin Road and connect to the overall path system.

Design for this project is programmed in 2024, with construction reflected beyond the five-year program period. Timing for the project may be re-evaluated if partnership funding from adjacent jurisdictions or MORPC grants can be obtained.

ET190 Shannon Park Sidewalk Improvements

This project provides for the installation of sidewalks along four streets in the Shannon Park subdivision: Gullway Bay Drive, Guinness Court, McGinty Court, and Valley Down Road/Shannon Park Drive. Residents are expected to donate right-of-entries, and/or easements if required for the project.

Design and construction is reflected beyond the five-year period.



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14 | Transportation - Bridges & Culverts



TRANSPORTATION - BRIDGES AND CULVERTS

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
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CAPITAL MAINTENANCE

AT20C	Annual Vehicular Bridge Maintenance	745	1,000	1,015	1,115	1,045	900	5,075	0	5,075
AT208	Annual Pedestrian Tunnel Maintenance	440	60	525	60	525	30	1,200	255	1,455
AT20B	Concrete Sealing Maintenance	70	0	70	0	70	0	140	70	210
AT20D	Culvert Maintenance	0	0	110	0	90	0	200	0	200
AT20H	Annual Pedestrian Bridge Maintenance	40	40	50	40	65	80	275	50	325
TOTAL		1,295	1,100	1,770	1,215	1,795	1,010	6,890	375	7,265

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

GR132	Scioto River Pedestrian Bridge	9,515	0	0	0	0	0	0	0	0
ET16B	John Shields Parkway Bridge	0	0	0	0	0	0	0	36,050	36,050
TOTAL		9,515	0	0	0	0	0	0	36,050	36,050

2020-2024	TOTAL - BRIDGES AND CULVERTS	10,810	1,100	1,770	1,215	1,795	1,010	6,890	36,425	43,315
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2019-2023	TOTAL - BRIDGES AND CULVERTS	1,355	825	1,140	830	1,370	n/a
	\$\$ Difference	9,455	275	630	385	425	n/a
	% Difference	697.8%	33.3%	55.3%	46.4%	31.0%	n/a



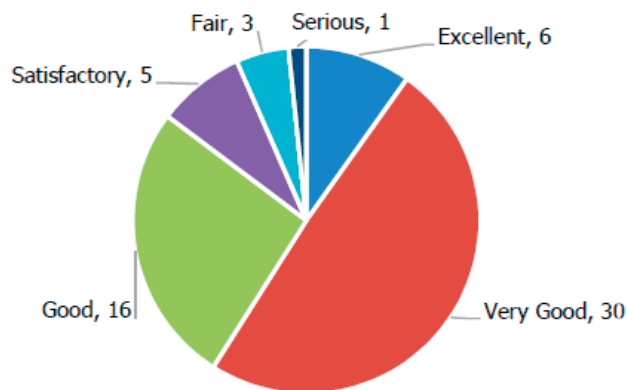
TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL MAINTENANCE

AT20C **Annual Vehicular Bridge Maintenance**

This project provides annual funding for vehicular bridge maintenance. By definition in the Ohio Revised Code, there are currently 91 vehicular bridges within Dublin corporation limits. Of those, City of Dublin is fully responsible for the maintenance and inspection of 53 bridges and responsible for the routine maintenance of eight bridges. The remaining bridges are maintained and inspected by the respective Counties or ODOT. The bridge inventory is on-file in the Public Works Department. The most recent inspections were performed in Fall 2018 by the Franklin County Engineer office.

Preventive maintenance tasks are deck overlay, railing repair or replacement, replace superstructure, sealing, deck patching, and replace joints. Preventive maintenance is key to extending the life of the City's bridges. Some critical preventive maintenance tasks include: deck sealing, joint cleaning, deck sweeping, cleaning drainage system, and cleaning and resetting the rockers. Many of these preventive maintenance tasks are able to be completed by City staffed maintenance crews; therefore, no annual CIP funds are budgeted for this purpose. A comprehensive Work Plan for Vehicular Bridge Maintenance, including condition scores is on-file in the Public Works Department.

Dublin Maintained Bridge Conditions



All Bridges

Average Overall Bridge Condition (GA)

Average Wearing Surface Condition

Average Deck Condition (Floor)

2019

7.5

1.1

1.2

>

<

<

Goal

7

2

2

Total Number of Bridges in Dublin

91

Total Deck Area Inspected (sf)

137,668

Total Deck Area Maintained (sf)

227,032



TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL MAINTENANCE

AT208 **Annual Pedestrian Tunnel Maintenance**

This project provides annual funding for pedestrian tunnel maintenance. There are currently 30 pedestrian tunnels within Dublin corporation limits. Of those, 13 meet the Ohio Revised Code's definition of a bridge and are inventoried, and inspected as bridges with the maintenance programmed as part of Annual Bridge Maintenance. The remaining 17 pedestrian tunnels are included in this work plan. 14 of those tunnels are part of the Muirfield Association's path system and the remaining three tunnels are part of the Muirfield Country Club's path system. The City is responsible for the maintenance, repair, and replacement of all of these tunnels since they are an integral part of the City's roadway structure and they are located in the public right-of-way.

Typical maintenance work tasks included in this project are pipe lining, replacing stone facing on headwalls, removing and replacing headwalls, replacing guardrails, and patching corroded areas. Preventive maintenance for these structures includes keeping the path surface free of debris and water particularly at the interface of the path and pipe, keeping the concrete joints sealed, and addressing any erosion.



Typical headwall to be replaced and made vertical

A comprehensive work plan for Pedestrian Tunnel Maintenance, including condition scores is on-file in the Public Works Department.



TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL MAINTENANCE

The work plan is based on the most recent inspection data and defines the work planned for each tunnel in order to meet the average condition goal of 80, which equates to "very good." The current average rating for all tunnels is 86.

Tunnel maintenance is programmed on an annual basis.

AT20B **Concrete Sealing Maintenance**

This project provides annual funding for the sealing of concrete where the sealer has deteriorated or the concrete has aged and needs refreshed but is otherwise in good condition. Concrete will be sealed with an epoxy urethane or a silane type sealer to provide a clean look and offer protection from weathering. Areas considered for sealing include barrier walls and bridge abutments. Sealing these concrete surfaces offers both aesthetic and preventive maintenance benefits to the structure being sealed. Concrete surfaces can also be sealed to eliminate graffiti.

Funding is programmed for this work on a biennial basis in 2019, 2021, and 2023.

AT20D **Culvert Maintenance**

This project provides funding for culvert maintenance and replacement. By definition of the Ohio Revised Code, City of Dublin is fully responsible for the maintenance of all culverts under public roadways within the city. Inspections were performed on most City of Dublin maintained culverts in the summer of 2018. There are currently 65 culverts within City of Dublin's corporation limits, of which 54 are maintained by the City of Dublin and the remaining 11 are maintained by ODOT. A comprehensive work plan based on the 2018 inspections for culvert maintenance, including condition scores is on-file in the Public Works Department.

Preventive maintenance activities for these structures includes keeping the culvert free of debris and addressing any erosion at the headwalls. Maintenance and replacement of the City's culverts are important to maintain storm water flow as well as guarantee the safety of the public using these structures.

Funding is programmed for this work on a biennial basis in 2021, and 2023.

Number of Dublin maintained culverts	54
Total length (ft) of Dublin culverts	5,654

Average Condition Score:	77.9	Goal:	80
Number Less Than "Satisfactory" (60):	4	Goal:	0

AT20H **Annual Pedestrian Bridge Maintenance**

This project provides funding for pedestrian bridge maintenance. There are currently 68 pedestrian bridges within the Dublin corporate limits. The City is fully responsible



TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL MAINTENANCE

for the maintenance and inspection of 41 of these bridges. The remaining bridges are maintained by private entities. The pedestrian bridge inventory has recently been thoroughly reviewed and updated by City staff.

A comprehensive work plan for Pedestrian Bridge Maintenance, including condition scores is on-file in the Public Works Department.

Some critical preventive maintenance tasks include: keeping bridge free of debris and painting and staining wood. These type of tasks are able to be completed by City staffed maintenance crews.

Funding is programmed on an annual basis for design and construction work.

Number of Dublin maintained pedestrian bridges	41
Total area (s.f.) of Dublin pedestrian bridges	18,652
Average length of Dublin pedestrian bridges (s.f.)	60.9

Average Condition Score:	80.0	Goal: 80
Number Less Than Satisfactory	3	Goal: 0

Year / Work / Bridge	Number	Sum of Deck Area	Construction Estimate
2020	2	606	\$38,000
Redeck & Railing	1	303	\$31,000
Behind retirement village	1	303	\$31,000
Railing	1	303	\$7,000
Bikepath near New Grange Dr	1	303	\$7,000
2021	1	454	\$48,000
Redeck & Railing	1	454	\$48,000
Behind Caplestone	1	454	\$48,000
2022	1	260	\$41,000
Replace	1	260	\$41,000
Corazon	1	260	\$41,000
2023	1	400	\$66,000
Replace	1	400	\$66,000
Riviera	1	400	\$66,000
2024	1	480	\$81,000
Replace	1	480	\$81,000
Riviera	1	480	\$81,000
Grand Total	6	2,199	\$274,000

Note: Design cost and right-of-way acquisition is not included in amounts in the table above.



TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

GR132 **Scioto River Pedestrian Bridge**

This project provides for the design, land acquisition and construction of an iconic pedestrian (suspension) bridge over the Scioto River connecting the Historic District to the new Bridge Street District. Detailed design and environmental permitting of the Scioto River Pedestrian Bridge began in late 2015. The detailed design process is bringing the iconic concept developed and endorsed as part of the Bridge Street District River Corridor Framework Plan in early 2013 to fruition. The concept consists of an “s” curve, two span, suspension bridge, with a tear-drop (keyhole) shaped pylon. The Pedestrian Bridge will serve as an iconic pedestrian and bicycle crossing that functions both as a critical transportation link and a regional destination, while at the same time, featuring the scenic Scioto River corridor.

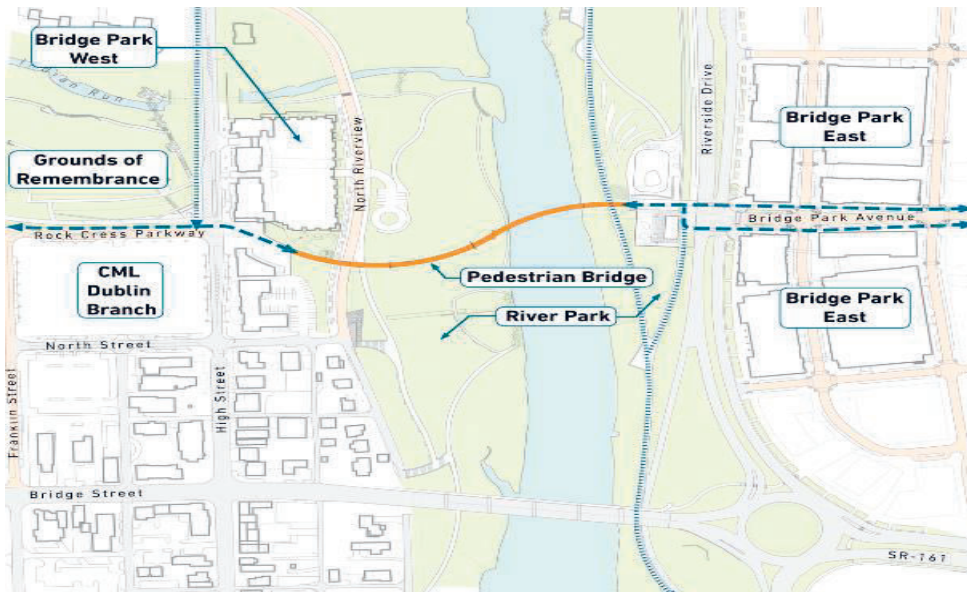
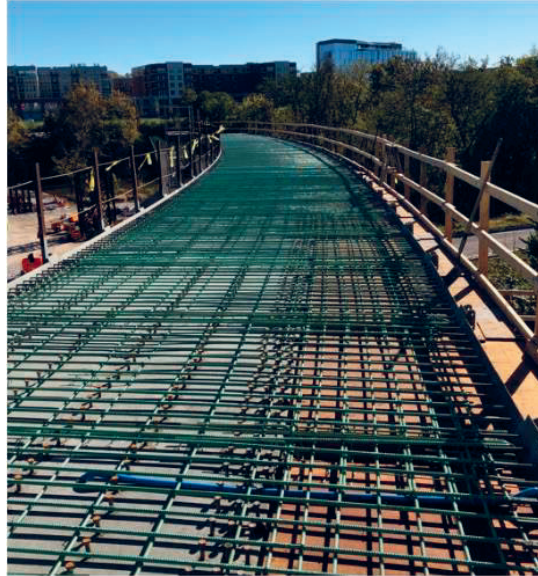
The construction estimate included an above-deck tower height of 110 feet, intermediate lighting level, concrete piers, 700+ foot total length by 14 foot wide, and a 20% contingency.

Construction began in 2017 with an anticipated duration of two years, opening in 2019. This schedule is subject to obtaining the requisite federal environmental permits, steel availability, weather, and adjacent construction activities.





TRANSPORTATION – BRIDGES AND CULVERTS CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE



The Pedestrian Bridge design and architecture was completed by endrestudio, the structural and civil engineering by Ty Lin International, and the construction is contracted with Kokosing Construction Company, Inc.

This project is being funded through general obligation debt.

**TRANSPORTATION – BRIDGES AND CULVERTS
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE****ET16B John Shields Parkway Bridge Over Scioto River**

This project provides for the study, design and construction of a future vehicular bridge over the Scioto River between the I-270 and Bridge Street bridges, at the location of the new John Shields Parkway intersection with Riverside Drive. This future bridge will link destinations east and west of the Scioto River in order to facilitate local travel within the Bridge Street District. In addition to a new vehicular connection, the future bridge will provide additional pedestrian and bicycle connectivity across the Scioto River. A structure-type study began in February 2016 as part of a comprehensive evaluation of the floodway/floodplain impacts of the pedestrian bridge and other proposed parkland improvements.

Funding includes a signal at Dublin Road and signal reconfiguration at Riverside Drive. The bridge span is approximately 715 feet long.

Reflected beyond the five-year program period is funding for design, project site acquisition (one parcel) and construction costs.

15 | Transportation - Streets & Parking



TRANSPORTATION - STREETS AND PARKING

(MUNIS) PROJECT NO.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
AT201	Annual Street Maintenance Program	6,000	6,300	6,615	6,945	7,295	7,660	34,815	8,040	42,855
AT20A	Annual Guardrail Replacement & Maintenance	170	155	160	100	250	375	1,040	0	1,040
AT207	Annual Parking Lot Maintenance	335	90	135	35	90	35	385	40	425
AT20E	Annual Retaining Wall and Decorative Wall Maintenance	70	130	125	50	50	50	405	50	455
AT20F	Annual Pavement Preventive Maintenance	545	565	585	605	630	655	3,040	680	3,720
AT18G	Traffic Signal Wiring and Cabinet Maintenance and Replacement	210	250	100	0	0	0	350	0	350
AT191	Shier Rings Park Wall Rehabilitation	20	110	0	0	0	0	110	0	110
AT193	Eiterman and Ballantrae Intersection Paver Repairs/Replacement	35	215	0	0	0	0	215	0	215
TOTAL		7,385	7,815	7,720	7,735	8,315	8,775	40,360	8,810	49,170

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Street Projects:										
ET013	Tuttle Crossing Blvd. Ext.-Wilcox Road to Avery Road/Avery Road Widening - Tuttle Crossing to Rings Road East, phase 1 (TIF)	2,900	0	0	0	0	0	0	15,835	15,835
ET142	Avery Road Widening - Rings Road E. to Woerner Temple, phase 2 (TIF) -	0	0	0	0	0	0	0	8,030	8,030
ET202	Avery Road and Rings Road/Cara Road Interim Intersection Improvement	0	610	2,400	0	0	0	3,010	0	3,010
ET066	Eiterman Road Relocation (TIF)	370	2,860	0	0	0	0	2,860	0	2,860
ET517	Shier Rings Road Realignment - Eiterman Road to Avery Road (University Blvd. phase 2)	800	9,630	0	0	0	0	9,630	0	9,630
ET164	University Boulevard Extension, phase 3 (TIF)	260	0	0	0	0	0	0	1,800	1,800
ET523	Perimeter Drive Widening - Holt Road to Commerce Parkway (TIF)	0	300	0	180	0	0	480	5,055	5,535
ET17H	Post Road to Frantz Road Intersection Study	0	0	0	0	0	0	0	8,500	8,500
ET16D	N. Riverview Rehabilitation	10	75	0	0	0	0	75	850	925
ET17L	Rings Road Utility Burial (Churchman Rd to Eiterman Rd)	0	0	0	0	0	0	0	655	655
ET17M	River Forest Storm and Roadway Improvement	180	0	0	1,800	0	0	1,800	0	1,800
ET158	Sawmill Road - Snuffer Road Intersection Improvements	0	100	0	0	0	0	100	6,865	6,965
ET003	US33/SR161/Post Road Interchange (see Note A below)	250	850	30,980	0	0	0	31,830	0	31,830
ET518	Hyland-Croy & Post Preserve Roundabout (TIF)	0	0	0	0	270	0	270	2,125	2,395
ET092	Post Preserve Access Modification (TIF)	0	0	0	0	0	0	0	1,485	1,485
ET089	Hyland-Croy / McKittrick Road Roundabout	0	0	0	400	2,100	0	2,500	0	2,500
ET157	Post Road Improvements	0	0	0	0	0	0	0	6,520	6,520
ET17U	Riverside Drive/Summit View Road Intersection and Shared-Use Path	0	0	0	0	0	225	225	1,885	2,110
ET16E	Comprehensive Wayfinding System - Phased City Wide	0	55	620	0	0	0	675	0	675
ET184	Rings Farms Public Streets and Utilities	450	0	0	0	0	0	0	3,900	3,900
ET185	Cosgray and Rings Roads Intersection Improvements	0	0	0	225	0	0	225	0	225
ET186	Riverside Drive at Martin Road Roundabout and Access Management	0	0	0	0	0	0	0	9,350	9,350
ET187	Frantz Road Streetscape Improvements	0	0	0	0	0	0	0	1,130	1,130

CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Street Projects (continued):										
ET188	West Bridge Street Area Improvements	0	0	0	0	0	0	0	475	475
ET181	Franklin Street Improvements & AEP South High Street Pole Line Removal and Relocation	0	0	175	1,260	0	0	1,435	0	1,435
ET203	Overhead Utility Removal - South High Street (Waterford Dr. to Bridge St.)	0	360	590	0	0	0	950	0	950
ET111	Railroad Quiet Zone, Houchard Road to Leap Road	0	0	0	0	0	0	0	25	25
ET17I	Shawan Falls Extension, phase 1	0	0	0	0	0	0	0	6,150	6,150
ET159	Dale Drive Rehabilitation	0	0	0	0	0	0	0	6,065	6,065
ET161	Tuttle Crossing Blvd., phase 2	0	0	0	0	0	0	0	900	900
ET811	Avery and Shier-Rings Road Roundabout and Old Avery Relocation	1,030	8,520	0	0	0	0	8,520	0	8,520
ET192	Bright Road Improvements	0	200	0	0	0	0	200	2,200	2,400
ET193	Hyland-Croy Road Corridor Improvements (see Note A below)	0	0	1,200	3,010	10,130	0	14,340	0	14,340
ET204	Franklin Street Extension	0	0	400	2,655	0	0	3,055	0	3,055
Parking Projects:										
ET17A	Smart Parking/Bridge Street District Parking Control/Metering Equipment	385	400	0	0	0	0	400	0	400
TOTAL		6,635	23,960	36,365	9,530	12,500	225	82,580	89,800	172,380

2020-2024	TOTAL - STREETS AND PARKING	14,020	31,775	44,085	17,265	20,815	9,000	122,940	98,610	221,550
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2019-2023	TOTAL - STREETS AND PARKING	38,806	27,400	16,905	8,825	11,505	n/a
	\$\$ Difference	(24,786)	4,375	27,180	8,440	9,310	n/a
	% Difference	-63.9%	16.0%	160.8%	95.6%	80.9%	n/a

Note A - Multiple jurisdictions will be involved in this project. A portion of the costs budgeted in the worksheet will be funded through outside sources.



TRANSPORTATION – STREETS AND PARKING CAPITAL MAINTENANCE

Note: The funding source for the following projects is the Capital Improvements Tax Fund unless otherwise stated. The July 1, 2019 increase in gasoline tax will provide additional funding for capital maintenance.

AT201 Annual Street Maintenance Program

Funding for this project provides an annual allocation for repairing the City's roadways. The Street Maintenance Program consists of replacement of deteriorated concrete curb and gutter, street base stabilization, milling of deteriorated pavement surfaces and placement of new asphalt pavement. There are currently 278.4 miles of public roadway in the City with an equivalent of 630 lane miles of pavement. The pavement was inspected in 2017 by Gorrondona & Associates, Inc. using laser scanning technology to measure distress and calculate a Pavement Condition index (PCI) score. The current average PCI of the system is 82 with an overall system goal of 75, which equates to "good" condition. In addition, there is a goal of a minimum rating of 50 for local streets and 60 for all others.

The factors used to prioritize and select streets for inclusion in the program includes: existing pavement condition index, type and severity of deterioration, average daily traffic, functional classification of the street, annual maintenance costs, and expected economy of grouping streets by location to gain contractor efficiency and minimize neighborhood disruptions. Also the condition of the existing curb and gutters are evaluated. That work is aligned with the pavement work. A comprehensive work plan for Pavement Maintenance, including detailed condition scores, is on file in the Public Works Department.

Routine maintenance is addressed by City staff including pothole patching, spot asphalt repairs, berm repairs, and spot concrete curb repairs.

The annual cost estimates funded in the five-year program are based on average per lane mile historical costs of Dublin resurfacing contracts.

AT20A Annual Guardrail Replacement and Maintenance

This project provides annual funding for the guardrails within the City of Dublin to be maintained and/or replaced in compliance with current standards. There are 252 guardrail locations within or touching the City limits. Of that total, the City of Dublin maintains 192 locations totaling 30,624 feet of guardrail. The remaining locations are maintained by the State, Franklin county, or private entities. Of the guardrail maintained by City of Dublin, 61% are metal and the remaining 39% are wood.



TRANSPORTATION – STREETS AND PARKING CAPITAL MAINTENANCE

A comprehensive inventory and inspection was performed in 2018 of the existing guardrails in the City of Dublin. A five-year Work Plan has been developed in support of the funding requests, and is on file in the Public Works Department. The inspections take the condition of the rails and posts into consideration and also evaluate the alignment and protective coating conditions. The inspections also verify that the guardrail meets the height criteria. The average condition score is 74 which meets the goal of 70 or “good.” Preventive maintenance is performed by City staff in the form of guardrail painting and clearing vegetation to prohibit and slow corrosion. Routine maintenance is performed by City staff by repairing minor damages.

Year / Work Type / Location	Score	Total Length	Number	Const Total
2020	59	1,595	12	\$132,000
Full Replace - Metal	57	99	1	\$7,000
DUBLIN RD	57	99	1	\$7,000
Full Replace - Wood	55	910	6	\$125,000
DUBLIN METHODIST LN	56	254	1	\$35,000
KILGOUR PL	53	179	2	\$25,000
MEMORIAL DR	59	407	2	\$56,000
SUMMIT VIEW RD	52	69	1	\$9,000
Project Replacement	63	586	5	\$0
MUIRFIELD DR	61	461	4	\$0
SHAWAN FALLS DR	72	125	1	\$0
2021	60	1,514	10	\$143,000
Full Replace - Wood	59	1,016	8	\$143,000
AVERY RD	62	85	1	\$12,000
BRISTOL PKWY	55	254	2	\$36,000
EMERALD PKWY	60	193	1	\$27,000
MACBETH DR	60	117	2	\$16,000
WAREHAM DR	59	367	2	\$52,000
Project Replacement	67	498	2	\$0
CARNOUSTIE DR	67	498	2	\$0
2022	64	567	7	\$71,000
Full Replace - Wood	67	473	5	\$71,000
GLICK RD	65	140	2	\$20,000
MEMORIAL DR	69	332	3	\$51,000
Project Replacement	55	94	2	\$0
MONTEREY DR	55	94	2	\$0
2023	62	1,752	16	\$194,000
Full Replace - Metal	62	483	3	\$40,000
DUBLIN RD	62	483	3	\$40,000
Full Replace - Wood	60	1,015	11	\$154,000
MUIRFIELD DR	60	859	7	\$130,000
STOCKTON WAY	59	156	4	\$24,000
Project Replacement	78	253	2	\$0
BRANDONWAY DR	78	253	2	\$0
2024	59	2,500	4	\$377,000
Full Replace - Metal	64	182	1	\$15,000
RIVERSIDE DR	64	182	1	\$15,000
Full Replace - Wood	57	2,319	3	\$362,000
BRAND RD	52	1,549	1	\$242,000
HYLAND-CROY RD	60	770	2	\$120,000
Grand Total	61	7,928	49	\$917,000

Note: Design costs are not included in the table above.



TRANSPORTATION – STREETS AND PARKING CAPITAL MAINTENANCE

AT207 Annual Parking Lot Maintenance

This project provides for the maintenance of the City's parking lots. There are 98 inventoried public parking locations in the City of Dublin including lots and on-street parking locations. The public parking lots total approximately 5,684 parking spaces. The average condition score of the parking lots is 75.5 with a goal of 70, which equates to "good." A comprehensive work plan for parking lot maintenance, including detailed condition scores is on file in the Public Works Department. The work plan was based on 2018 parking lot inspection data. A portion of the work plan funding is set aside for preventive maintenance activities which include crack sealing and sealcoating. These preventive maintenance strategies will help preserve the life of the parking lots by helping to seal out water to prevent subgrade saturation and freeze-thaw damage. Routine maintenance is performed by City staff and includes lot sweeping, minor curb repairs, spot asphalt repairs, drainage repairs, and minor striping. An annual funding amount is reflected during the five-year program period based on projects to be completed by year.

Year / Planned Work / Location	Number	Const Estimate
2020	9	\$87,454
PM - Crackseal and Sealcoat	8	\$78,728
Darby Street Parking Lot	1	\$8,148
Darree Fields Ball Diamond West Lot	1	\$13,486
Indian Run Elementary North Parking Lot	1	\$734
John Wright Lot	1	\$17,056
Llewellyn Farms Park Lot	1	\$17,481
North Pool Lot	1	\$6,093
Ted Kaltenbach Park Lot	1	\$10,771
Thaddeus Kosciuszko Park Lot	1	\$4,959
Mill & Fill	1	\$8,726
Darree Fields West Drive	1	\$8,726
2021	1	\$136,738
Replace	1	\$136,738
DCRC West Overflow Lot	1	\$136,738
2022	2	\$34,129
Resurface	2	\$34,129
Service Complex Rear Drive	1	\$31,773
Service Complex Rear Lot	1	\$2,356
2023	6	\$89,288
PM - Crackseal and Sealcoat	6	\$89,288
Avery Park Water Tower Lot & Drive	1	\$19,565
Darree Fields Miracle League Lot	1	\$48,071
Darree Fields SE Entrance Drive	1	\$1,702
Darree Fields Soccer NE Lot	1	\$9,000
Darree Fields Soccer North West Lot	1	\$8,906
Darree Fields West Entrance Drive	1	\$2,046
2024	8	\$35,873
PM - Crackseal and Sealcoat	8	\$35,873
Darree Fields Soccer Center N Lot	1	\$4,875
Darree Fields Soccer Center S Lot	1	\$13,459
Darree Fields Soccer East N Lot	1	\$13,460
Darree Fields Soccer East S Lot	1	\$1,058
Darree Fields Soccer Restroom Lot	1	\$2,008
Quad 5	2	\$298
Woods of Brighton Park Lot	1	\$715
Grand Total	26	\$383,482

Note: Design costs are not included in the table above.



TRANSPORTATION – STREETS AND PARKING CAPITAL MAINTENANCE

AT20E Annual Retaining Wall and Decorative Wall Maintenance

This project provides annual funding for maintenance of the City's retaining and decorative walls. In August 2016, an inventory of all the walls in Dublin was conducted with an update in 2017; walls 36" or taller and adjacent to the roadway were inventoried. Walls inside parks or any other location not near the roadway right-of-way were not inventoried. There are 254 wall locations within the City limits totaling approximately five miles in length. Of that total, the City of Dublin maintains 154 wall locations totaling 18,000 feet. The remaining locations are maintained by Franklin County or private entities. The vast majority of the wall types are stone. There is also a significant number of concrete walls as well as a few timber walls and mechanically stabilized earth walls. The focus of the retaining wall work plan is to address and prioritize structural problems while also focusing on the aesthetics of the wall. Preventative maintenance is mainly performed through our concrete sealing contract.

A comprehensive work plan for Wall Maintenance, including detailed condition scores is on file in the Public Works Department.

Funding is programmed for this project on an annual basis for repair, design and construction.

AT20F Annual Pavement Preventive Maintenance

Funding this project provides for the annual pavement preventive maintenance (PM) in the form of crack sealing, pavement rejuvenators and other strategies. Preventive maintenance is a planned strategy of cost effective treatments to an existing roadway system that preserves the system, decelerates future deterioration, extends the service life, and maintains or improves the functional condition of the system without substantially increasing structural capacity. Pavement preventive maintenance treatments reduce the amount of water infiltrating the pavement structure, protect the pavement system, slow the rate of deterioration, or correct surface deficiencies such as roughness and non-load related distress. Applied at the proper time, preventive maintenance treatments are proven to prolong the life of pavements at a lower user cost.

The annual cost estimates funded in the five-year program are based on dividing the square yards of pavement that meet the PM criteria by five years and multiplying by the average PM costs and inflated using ODOT's inflation calculator.

AT18G Traffic Signal Wiring and Cabinet Maintenance and Replacement

This project provides funding for the replacement of traffic signal controller cabinets and replacement of traffic signal wire at existing traffic signal locations. This work is necessary due to aging of the infrastructure, upgrading equipment, or needing to improve maintenance access.



TRANSPORTATION – STREETS AND PARKING CAPITAL MAINTENANCE

Funding provided for contracted wiring work at two intersections in 2019, two in 2020, and one in 2021. Locations are:

- Bridge Street (U.S. 33/S.R. 161) at High St (S.R. 745)
- Emerald Parkway at Coffman Road/Coffman Park Drive
- Avery-Muirfield Drive at Perimeter Loop Road/Hospital Drive
- Frantz Road at Blazer Parkway/Longbranch Drive
- Riverside Drive (S.R. 257) at Summit View Road

AT20I Shier Rings Park Wall Rehabilitation

This project provides funding for rehabilitation of the cast-in-place concrete and stone veneer walls surrounding portions of the pond located at Shier Rings Park. The stone veneer has begun to delaminate from the concrete and is posing a concern at the edge of the water. The best course of action is to modify the wall height and replace the stone veneer.

Funding is programmed in 2019 for design, with construction programmed in 2020.

AT20J Eiterman and Ballantrae Intersection Paver Repairs and Replacement

This project provides funding to remove and re-use and/or replace the pavers at the intersection of Eiterman Road and Ballantrae Place. The pavers will be removed and placed on a new base. The existing intersection has isolated areas of shifting pavers, causing the intersection to fail both aesthetically and structurally.

Design is programmed for funding in 2019, with construction programmed in 2020.



TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Street Projects:

ET013 Tuttle Crossing Boulevard Extension – Wilcox Road to Avery Road / Avery Road Widening – Tuttle Crossing Blvd. To Rings Road East, Phase 1

This public infrastructure project provides for the extension of Tuttle Crossing Boulevard from its current terminus at Wilcox Road to Avery Road. The project includes the construction of a four-lane boulevard with curb and gutters, bikeway, sidewalk, street lights, traffic signals, a multi-use tunnel and landscaping. Funds for a preliminary alignment study were programmed in 2012 partially due to the National Church Residence's (NCR) ability to secure financing for the construction of one and two bedroom housing units for seniors of mixed incomes and discussions with Homewood for development of the area north of the NCR site.

Site acquisition is currently on going through 2019, with construction reflected beyond the five-year program.

Construction costs reflected in the Capital Improvements Program include total construction costs (not total City of Dublin costs). Currently, the City of Dublin's portion of the project (project development and right-of-way acquisitions) is planned to be funded through service payments from the Rings/Frantz TIF, and the Thomas/Kohler TIF. Contributions from outside funding is expected to come from the City of Columbus, private developers, MORPC Attributable Funds, and Gage Crossing. However, a \$5,500,000 "gap" in funding still exists. As of April 2019, MORPC representatives have expressed that accommodating additional funding requests will be difficult until 2021, or even pushed to later years. Additionally, the City of Columbus has pushed their contribution to years outside the five-year program period. Subsequently, the timing of construction of the project is subject to change.

ET142 Avery Road Widening – From Rings Road east to Woerner Temple Road, Phase 2

This project provides for the widening of Avery Road from Woerner Temple Road to Rings Road west. It will include a four lane boulevard "Emerald Parkway" section for Avery Road approximately 3,150 feet in length; street lighting; and a bridge over Cramer Ditch. The widening will tie into the Tuttle Crossing Boulevard and Avery Road improvements project, just north of Rings Road west.



TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Funding for this project is anticipated to be from service payments from the Rings/Frantz TIF. Project design, site acquisition and construction are reflected beyond the five-year period.

ET202 Avery Road and Rings Road/Cara Road Interim Intersection Improvement

This project provides for a temporary intersection improvement at the intersection of Avery Road and Rings Road/Cara Road. The project includes a traffic signal and left turn lanes on each approach, with right turn lanes added for eastbound and southbound traffic. Right-of-way needs for this project fit within the Tuttle Crossing Boulevard Extension and Avery Road Improvements project, which are currently being acquired.

Traffic at the intersection of Avery Road and Rings Road/Cara Road is congested, particularly in the peak hours. The intersection is currently stop sign controlled on the side streets, Rings Road and Cara Road. Avery Road is a free flow movement. There are single lane approaches on all four legs. The interim solution is not intended to service the long-term traffic. Additional through lanes on Avery Road will be needed long-term, as planned with the Tuttle Crossing Boulevard and Avery Road Improvements project and the Avery Road Widening between Rings Road and Woerner Temple Road project.

Funding is programmed for project design in 2020 and construction in 2021.

ET066 Eiterman Road Relocation

This project includes funding for the relocation of Eiterman Road from the S.R. 161/Eiterman Road roundabout project south around the Ohio University (OU) campus. Work includes the burial of overhead utilities along Eiterman Road. This project helps to facilitate the OU campus expansion, and provides greater freeway frontage and development opportunities.

Design of the project was programmed in 2019, and construction, landscape and utility burial is reflected in 2020. The project is subject to further development of the Ohio University campus.

Funding for this project is planned from the West Innovation TIF.

ET517 Shier Rings Road - Eiterman Road to Avery Road (University Blvd. Phase 2)

This project provides programming for the upgrade of the existing two lane road with ditches to a four to five lane road (divided with median) with curbs and gutters within 100 feet of the right-of-way. Possibly a roundabout will be installed at Eiterman



TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Road/Shier Rings Road. Approximately 1,400 ft. of existing Shier Rings Road will be affected and 3,500 ft. of new roadway (University Boulevard) will be constructed.

City Council approved Ordinance 5-16 authorizing the purchase of 73.650 acres, more or less, located at 6600 Shier Rings Road. The timing of the development of this property impacts the need for infrastructure improvements.

Design is programmed in 2019, site acquisition, utility relocation, construction and landscaping in 2020. The funding sources for this project will include developer contributions, and General Fund transfers.

ET164 University Boulevard Extension Phase 3

This project provides the next phase of University Boulevard, south of S.R. 161. The project provides funding for extension of 1,375 feet of roadway to support development of the OU campus. Relocated Eiterman Road will connect with University Boulevard Phase 2.

Design of the project was programmed in 2019. Movement of the project is development dependent. Construction and landscaping are reflected beyond the five-year program period. Funding for this project will be advanced. As funds become available, service payments from the Ohio University (OU) TIF will repay the advance(s).

ET523 Perimeter Drive Widening - Holt Road to Commerce Parkway

This project widens approximately 3,300 linear feet of Perimeter Drive from Holt Road to Commerce Parkway from an existing three lanes to four to five lanes to address increased traffic volume, delay, and reduced safety on Perimeter Drive. This improvement supports the commercial corridor along Perimeter Drive. Utilities are already buried along Perimeter Drive. The proposed right-of-way width is 100 feet. There is approximately 90 feet already in place. An additional 10 feet along the north side of Perimeter Drive will be required when the project advances.

The final design is programmed in 2020 with right-of-way acquisition is funded in 2022. Utility relocation and construction is reflected beyond the five-year program period. This project will be funded through service payment revenue received from the Perimeter Center TIF.

ET17H Post Road to Frantz Road Intersection Study

This project provides funding to study the realignment of Post Road to create an intersection with Kilgour Place that is further north of the existing intersection near S.R. 161. This will also provide an alternative route at some future point when S.R. 161/Frantz Road/Post Road intersection is reconstructed. This is approximately 1,550 feet of reconstruction and realignment.



TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

This project is reflected beyond the five-year program period. Outside funding sources will be pursued for the future construction costs of this project.

ET16D North Riverview Rehabilitation

Funding for this project provides for spot repairs, resurfacing and re-striping of N. Riverview Street from the construction entrance north to Dublin Road, and the Indian Run intersection. This street served as the haul road for the Pedestrian Bridge construction, it is likely that the haul road will need spot repairs and other maintenance after the bulk of construction is complete.

Design is programmed in 2019, and funding for spot repairs to the haul road is shown in 2020. Additional funding is reflected beyond the five-year period for more extensive road work, if necessary.

ET17L Rings Road Utility Burial (Churchman Road to Eiterman Road)

This project is the relocation of overhead utilities on AEP power poles to underground conduits and vaults on the north side of Rings Road between the west side of Churchman Road roundabout and the east side of Eiterman Road to 6236 Rings Road, which is where the Tuttle Crossing Boulevard extension project ends burying overhead utilities. Overhead utilities will be placed underground with the Tuttle Crossing Boulevard extension project from Rings Road to Woerner Temple Road, including Rings Road between Eiterman Road and Avery Road.

This project will place the remaining underground aerial utilities within the City of Dublin's corporation limit along Rings Road from west of the Churchman Road/Rings Road roundabout to 6236 Rings Road.

Design, site acquisition, construction and costs of other appurtenances are reflected beyond the five-year program period.

ET17M River Forest Storm and Roadway Improvements

This project provides funding for improvement to roadside drainage and rehabilitation of roadways in River Forest. Over time, the ditches in this area have been filled in by residents causing the roadway not to drain properly. The project includes installation of storm piping, removal or modification of enclosed ditches, and reconstruction of roadways. Locations for the work is Ashford Road, Indian Hill Road, River Forest Road, and Bennett Court.

Project design is programmed in 2019 with construction funded in 2022.

ET158 Sawmill Road – Snouffer Road Intersection Improvements

This project is funded to evaluate the intersection access at the Sawmill Road and Snouffer Road intersection. This intersection is located near the Dublin Village Center



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shopping center which has been struggling for years. This evaluation is to determine what, if any modifications to the intersection access and configuration are possible. This project also includes funding a bridge study to determine what type of bridge would be best across I-270 in this area, as well as a traffic analysis to determine how the new bridge would tie into Emerald Parkway. This project would be in lieu of widening Sawmill Road to seven lanes and would be built in cooperation and support from the City of Columbus.

Funding programmed in 2020 provides for a study/design of bridge alternatives for a new bridge over I-270 from Tuller Road to Emerald Parkway. Site acquisition, utility relocations, and construction of the intersection project is reflected beyond the five-year program period. Costs have not been included for a new vehicular bridge. If approved, those costs will be included in future years as studies progress.

ET003 **U.S. 33/S.R. 161/Post Road Interchange**

This project provides for U.S. 33/S.R. 161/Post Road interchange ramps and terminal intersections previously approved by the Federal Highway Administration and Ohio Department of Transportation. The project will provide needed interchange capacity.

Funding is programmed in 2019/2020 for added design cost to complete phase two detailed design drawings, and right-of-way acquisition for a property along Liggett Road and other necessary temporary easements.

Funding for the construction of the project is currently planned as follows:

Union County Contribution	\$1,000,000
Developer Contribution (OSU)	1,250,000
Developer Contribution (FedEx)	1,500,000
ODOT – 6	880,000
MORPC Attributable Funds	10,000,000
TRAC 2016 Funds	7,000,000
TRAC 2019 Funds (tentative)	6,750,000
West Innovation TIF (**)	2,100,000
Perimeter West TIF	500,000

**** - advanced from the Capital Improvements Tax Fund.**

The City's contribution towards the project construction is approximately \$2,600,000 of the entire project, from the West Innovation TIF and the Perimeter West TIF. Construction is shown in 2021, however, it is dependent on the allocation of outside funds.



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ET518 **Hyland Croy and Post Preserve Roundabout**

This project provides funding for a roundabout at a new intersection on Hyland Croy Road for the new entrance to the Post Preserve subdivision.

Design is programmed in 2023, and will be funded through the Perimeter West TIF. Construction is reflected beyond the five-year program period. Debt may be issued in the future to fund construction of this project.

ET092 **Post Preserve Access Modification**

This project provides for extending and connecting Springview Lane and Stillhouse Lane, and then extending the roadway to Hyland-Croy Road (based on City Council motion on November 20, 2006). The project will also bury existing overhead power lines along the east side of Hyland-Croy from Post Road to the access point.

This project is required by ODOT to eliminate the Post Preserve Boulevard intersection with Post Road due to a change in limited access right-of-way for the upgraded interchange at U.S. 33/S.R. 161/Post Road.

Construction, utility relocates and landscape is reflected beyond the five-year program period. Design and utility relocate were programmed in 2017 and 2018.

ET089 **Hyland-Croy Road/McKittrick Road Roundabout**

This project will improve an existing two lane country road into a single lane roundabout with curb and gutters, street lights, crosswalks, storm drainage and landscaping. The roundabout will increase intersection capacity, improve sight visibility, and decrease traffic congestion.

Site acquisition is programmed in 2022. Construction, utility relocation and landscaping is programmed in 2023. The developer of Tartan Ridge has contributed \$118,125 towards this project (per development requirement).

ET157 **Post Road Improvements**

This project will improve Post Road between Perimeter Drive and Avery-Muirfield Drive providing a standard three lane curb and gutter section. This 3,400 feet section of Post Road serves commercial areas, churches, single family residential, and senior living establishments. The funding includes landscaping, sidewalk, shared-use path, curbs and gutters, enclosures of existing ditches, storm sewers, extension of existing box culvert, and street lights. Project funding also includes AEP burial of overhead utility lines. This improvement project will enhance traffic capacity, provide increased pedestrian/bicycle mobility, and provide access to commercial properties.



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Funding for design, right-of-way or easement acquisition, utility work, construction and other appurtenances of the project are shown beyond the five-year program period.

ET17U Riverside Drive/Summit View Road Intersection and Shared-Use Path Improvement

This project will widen Riverside Drive (S.R. 257) at Summit View Road to provide for installation of a left turn lane, re-create ditches, and add signalization and landscaping. Also, 750 feet of roadway on Summit View Road will be resurfaced with rigid concrete pavement to correct a maintenance concern with the flexible pavement. The shared-use path will connect to the south of Summit View Road and extend to the northern limit of roadway work of this project, thus connecting the shared-use path east of Summit View Road on the north side of that road.

Funding for design is programmed in 2024, with right-of-way or easement acquisition, construction and other appurtenances of the project shown beyond the five-year program period.

ET16E Comprehensive Wayfinding System – Phased Citywide

This project includes the design and implementation of a comprehensive wayfinding system to be designed as a modular, cost effective, and maintainable program of signs. The system will welcome and guide visitors from “highway to hallway” with an integrated multimodal system of signs to include directional signage (vehicular, pedestrian), integrated mapping system, parking connectivity, and Bridge Street District traffic control and street name signs. Aesthetically, the system design builds on the City of Dublin brand, the unique architectural and streetscape character of historical City of Dublin, and the future Bridge Street District streetscape standards. Future sign-types could include: vehicular gateways, bike, and transit signage.

The Master Sign Plan and key destinations were reviewed in the April 6, 2015 City Council Work Session. The phased plan is as follows:

Phase 1A: Bridge Street District — Riverside Drive and S.R. 161 roundabout, John Shields Parkway (Riverside Drive to Village Parkway).

Phase 1B: Bridge Street District — (All other areas of BSD outside the phase 1A project limits), and extending beyond BSD to include Riverside Drive North of Tuller Road to east at Sawmill, and Coffman Park area West of BSD.

Phase 2A-D: Remaining areas of the City outside Phase 1A + 1B zones, phased in four sections: 2A, 2B, 2C, and 2D.

The remaining phases of the project have been consolidated to one larger project more attractive to bidders. Funds are programmed in 2020 to provide for study and design of phases 2B through 2D. Funds are programmed in 2021 to provide for construction of 2A through 2D.



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ET184 **Rings Farm Public Streets and Utilities**

This project will construct approximately 2,400 feet of new public roadway, including a new culvert, sidewalks, and shared-use paths. Also included is the widening of Shier Rings Road to provide for installation of a left turn lane into the project area. This project is located at 6600 Shier Rings Road on acreage owned by the City. Constructing these roadways and installation of utilities will make this City-owned site development ready, enabling the City to attract commercial development to the site.

Design for this project was programmed in 2019. Construction is reflected beyond the five-year program period and is dependent on development.

ET185 **Cosgray and Rings Road Intersection Improvements**

This project programs preliminary engineering to review the alternatives and possible improvements to this offset intersection at Cosgray Road and Rings Road east and west. As annexation and development increase in the general area of this intersection, improvements will be needed to properly manage the increase in traffic volumes. The City has received increased inquiries about this intersection.

Funding for a preliminary engineering review is programmed in 2022. Costs beyond the preliminary review have not been estimated or programmed.

ET186 **Riverside Drive at Martin Road Roundabout and Access Management**

This project provides for the installation of a roundabout at the Riverside Drive and Martin Road intersection, near S.R. 161. Access issues and driveway management issues are the driver for this project. All driveways between Martin Road and S.R. 161 will be right-in/right-out only, and a median will be installed on Riverside Drive. Left turns from driveways on Riverside Drive will be prohibited, U-turns will be allowed at the roundabouts at Martin Road and S.R. 161. This will ease turning movements to/from Martin Road to/from Riverside Drive, particularly during peak periods. Project alternatives were analyzed from the driveway perspective including connecting parking lots behind buildings, adding a merge lane on southbound Riverside Drive, moving the merge point for the southbound bypass lane to be closer to S.R. 161. However, the best course of action has been put forward for the project.

Funding for the project is reflected beyond the five-year program period.

ET187 **Frantz Road Streetscape Improvements**

This project will design and construct streetscape improvements along Frantz Road between Tuttle Road and Bridge Street. The draft Corporate Area Plan – Special Area Plan Update (2017) established a strategy to “refresh” Frantz Road streetscape to



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better reflect the gateway nature of this important City corridor. The improvements included are landscaping at the public street intersections, median landscaping, wayfinding sign system, enhanced crosswalks at the existing public street intersections, repairs to deficient sidewalk sections, and two enhanced mid-block crosswalks.

Funding for landscaping, construction and other improvements is shown beyond the five-year program period. Funding will be reconsidered as development within the area generates TIF revenues to fund the project.

ET188 West Bridge Street Area Improvements

This project will implement the recommendations from the West Bridge Street Framework Plan (when it is adopted). These improvements may include (but is not limited to) streetscape enhancements, roadway improvements, landscaping, pedestrian mobility options, parking, utility conflict resolution planning, and traffic calming. The project encompasses the area of West Bridge Street from Franklin Street to I-270, with an emphasis in the next few years on the areas east of Corbin Mill to Franklin Street.

Funding shown beyond the five-year program period reflects an estimate for design and studies. Cost estimates for construction and implementation is unknown at this time. Adjustments for such will be needed when final recommendations are made with the final plan, and when developing the scope of work with consultants.

ET181 Franklin Street Improvements & AEP South High Street Pole Line Removal and Relocation

This project provides funding to add sidewalks to both sides of Franklin Street from Waterford Drive north to the Historic District and will incorporate the Franklin Street Crosswalk at Bridge Street including curb ramp work for ADA compliance. This project will also be coordinated with the timing of the Franklin Street resurfacing work identified in the Street Maintenance Program, and with AEP for utility work needed on Franklin Street to accommodate the burial/removal of the existing overhead lines on South High Street from Bridge Street to Waterford Drive.

Design is programmed in 2021 with construction in 2022 for the Franklin Street improvements. Easements will be acquired through donations.

The work for the AEP South High Street pole line removal and relocation is programmed in 2022.

ET203 Overhead Utility Removal – South High Street (Waterford Drive to Bridge Street)

This project provides for the continuation of removal of overhead utilities in the Historic District by relocating overhead utilities along South High Street to South



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Blacksmith Lane (overhead) and Mill Lane (underground). Utility lines servicing the existing properties along the east and west side of South High Street will be relocated to the rear of the structures. This project is necessary to remove the overhead utilities along South High Street.

Design and site acquisition is programmed in 2020, with construction and necessary site improvements programmed in 2021.

ET111 Railroad Quiet Zone – Houchard Road to Leap Road

This project provides funding for added supplemental safety measures such as medians or extra gates at each public road/rail crossing. Once installed, train warning whistles would not routinely sound along the CSX line for seven consecutive crossings. The crossings include Houchard Road, Cosgray Road, Rings Road, Avery Road, Hadyen Run Road, Davidson Road and Leap Road. There are various jurisdictions involved, including Franklin County, City of Columbus, and the City of Hilliard. The quiet zone at Davidson Road, and Leap Road are already in place.

Funding for the project is reflected beyond the five-year program period.

ET171 Shawan Falls Extension, Phase 1

This project provides funding for the extension of Shawan Falls and Rock Cress for the purpose of providing an alternative route when S.R. 161/Frantz Road /Post Road intersection is constructed, and includes construction of .65 lane miles of roadway. Work includes the design and reconstruction of the Shawan Falls Bridge over the South Fork of Indian Run. Right-of-way acquisition will be needed from the Federal Post Office property and from OCLC.

Funding for the project is reflected beyond the five-year program period.

ET159 Dale Drive Rehabilitation

Funding for this project provides for the reconstruction of 3,000 feet of roadway and other public utilities in accordance with the Bridge Street District standards. The site location is on Dale Drive from S.R. 161 to Tuller Road. This is not a signature street. The need for the development of this roadway will be commensurate with development of the adjacent property.

Design and construction of this project is reflected beyond the five-year period. The need for this project will be monitored as development occurs, and funding is available.

ET161 Tuttle Crossing, Phase 2

This project provides funding for preliminary design to extend Tuttle Crossing Boulevard from Cosgray Road to Avery Road. This section of roadway, approximately 1.5 miles, will cross the CSX railroad tracks and will be necessary to determine whether



TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

the crossing will be via a bridge or a tunnel. Exploration of these alternatives will be included in the preliminary engineering for the project.

Funding is included in 2018 for preliminary design, and detailed design is reflected beyond the five-year program period. Construction costs are unknown at this time and not reflected.

ET811 Avery Road and Shier Rings Road Roundabout and Old Avery Relocation

This project includes the design and construction for a multi-lane roundabout at the intersection and relocation of Old Avery Road to maintain access to the existing commercial businesses. The existing traffic and proposed development along the Shier Rings Road corridor will prompt the need for increased capacity of the roadway.

Funding for design of this project is programmed in 2019, with site acquisition, utility relocation, and construction is programmed in 2020. The funding source for this project will be through the Innovation TIF, and Capital Improvements Tax Fund.

ET192 Bright Road Area Improvements

This project is necessitated by the new elementary school expected to be built and opened in the fall of 2020 on the Dublin City School's property located on Emerald Parkway. This project will install a new shared-use path connection along the south side of Bright Road, between the proposed drive to the future Dublin City School's elementary school, and Macbeth Drive. The project also installs curb and gutter, and may include additional street lighting at Bright Road intersections. Residents will be expected to donate right-of-entries and/or easements if required from their property. This project will provide pedestrian mobility. An appropriate pedestrian crossing safety feature will also be installed.

Design is planned in 2020, with construction reflected beyond the five-year program period.

ET193 Hyland-Croy Road Corridor Improvements

This public infrastructure project includes the study, design and construction for the widening and improvement of Hyland-Croy Road between Post Road and Brand Road. The existing traffic and proposed development along this corridor will outpace the capacity of the roadway. The project includes widening the roadway, and intersection improvements where necessary. The current funding level is based on planning level estimates (City of Dublin typical standards) for the four lane section, with median, curb and gutter, and bike and pedestrian facilities. However, Dublin staff will continue to work with Union County officials to develop options for the future of Hyland-Croy Road.



TRANSPORTATION – STREETS AND PARKING CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

A significant funding “gap” exists for this project. The City’s contribution, as provided in this Capital Improvement Program is estimated at 25% of the project cost. It is expected that multiple jurisdictions and funding sources will be involved. Project partners include Union County and several developers that have contributed or will contribute through infrastructure agreements. Design is programmed in 2021, site acquisition and utility work in 2022, and construction in 2023. However, this project will be contingent on funding.

Parking Projects:

ET17A Smart Parking Infrastructure

This project provides funding for the procurement and installation of smart parking equipment and infrastructure. Examples include EV charging stations (both Level two and DC Fast Charging stations) that are designed to charge electric vehicles quickly, parking sensors and/or cameras, license plate readers, signs, combo parking/pedestrian sensors, and other technologies needed to support this initiative.

This project encompasses various locations throughout the City of Dublin, but the focus areas include: downtown City of Dublin, City Hall, DCRC, or other key public parking locations.

The project provides control and facilities turnover for businesses, and will utilize products identified in the Downtown Parking Management Study, implementation phase, led by the City’s Planning division. If the advanced dynamic smart parking management system and enforcement pilot is not successful, parking meters/kiosks may be installed.

Installation of this project is programmed in 2019. Additional funds were added in 2020 for studies and design to review the various types of technology that may be used, such as single space meters, parking kiosks, camera technologies for enforcement, or other technologies not yet assessed.

16 | Water System



UTILITIES-WATER DISTRIBUTION SYSTEM

(MUNIS) Project No.	DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
CAPITAL MAINTENANCE										
EW172	Tartan West Water Tank Re-Painting	0	10	390	0	0	0	400	0	400
	TOTAL	0	10	390	0	0	0	400	0	400
CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE										
AW101	Water Line Replacement	70	600	75	600	75	0	1,350	700	2,050
EW176	Water Line Extensions - Area 4A	785	0	0	0	0	0	0	0	0
EW177	Water Line Extensions - Areas 4A, 4B & 4C	755	0	0	0	0	0	0	0	0
EW178	Water Line Extensions - Areas 3A & 8A	0	235	0	0	0	0	235	970	1,205
EW179	Water Line Extensions - Areas 2B & 2C	0	0	0	0	0	0	0	1,245	1,245
EW17A	Water Line Extensions - Area 8C	0	0	0	0	0	0	0	380	380
EW190	Bright Road 12" Water Main Extension	75	135	0	0	0	0	135	0	135
EW191	Water Line Extensions - Areas 9 & 10B	0	0	0	0	0	0	0	1,090	1,090
EW192	Water Line Extensions - Area 10A	0	0	0	0	0	0	0	425	425
EW193	Riverside Drive 12" Water Main Extension - Area	0	0	0	0	0	0	0	195	195
	TOTAL	1,685	970	75	600	75	0	1,720	5,005	6,725
2020-2024	TOTAL - WATER	1,685	980	465	600	75	0	2,120	5,005	7,125
2019-2023	TOTAL - WATER	830	745	510	750	75	n/a			
	\$\$ Difference	855	235	(45)	(150)	0	n/a			
	% Difference	103.0%	31.5%	-8.8%	-20.0%	0.0%	n/a			



UTILITIES – WATER DISTRIBUTION SYSTEM CAPITAL MAINTENANCE

Note: The funding source for the following projects is the Water Fund.

EW172 **Tartan West Water Tank Re-Painting**

Funds programmed in 2020 and 2021 are for the exterior painting, dry interior and wet interior painting of the Tartan West Water Tank located at 9860 Hyland-Croy Road. The Tartan West Water Tank was originally built in 2006 and is in need of an adhesion test and inspection of the existing coatings. An inspection will be performed in 2020. The results of that inspection, will determine if the work will be pushed beyond 2023.



UTILITIES – WATER DISTRIBUTION SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

AW101 Waterline Replacement

There are areas in the City that have older 2" and 3" water pipes that have been identified for replacement with 6" water pipes. The smaller lines tend to experience more problems with breaks. Reliability of the water pipes distribution system is a key component for customer satisfaction. Engineering staff has prepared a comprehensive list of areas needing replacement and have completed an analysis of the lines to determine when replacement should occur.

There is funding allocated every other year in 2019, 2021, and 2023 for studies and design, and in 2020, and 2022 for replacement/construction. The work will continue beyond the five-year period. The majority of the current replacements will take place in Muirfield Village.

Water Line Extensions

These projects will provide funding to systematically provide access to areas of the City not currently on the public water distribution system in accordance with the Public Water Utility and Sanitary Sewer Utility Extensions to Existing Developed Property Policy as adopted by City Council on December 7, 2015. During the 2019-2023 CIP workshops, City Council seemed willing to consider extending the implementation plan beyond 15 years. The Administration is planning to conduct a water/sewer rate study in 2019. The primary outcome from the study will determine the rate structure that needs to be in place in order to provide sufficient funding for the maintenance of the City's existing system into the future. The outcome of that analysis will assist in informing the City in determining the amount, if any, from the General Fund, and/or Capital Improvement Tax Fund that will be needed to fund these extensions.

EW176 Water Line Extensions – Area 4A

This project will provide Area 4A with 6", 8" & 12" water pipe extensions to River Knoll Subdivision (Orchard Crest Drive & River Knolls Place) (11 parcels) and 7049-7575 Riverside Drive (8 parcels). A total of 19 parcels will receive water service.

The project construction is programmed in 2019.

EW177 Water Line Extensions – Area 4A, 4B & 4C

This project provides Area 4B & 4C with 6" & 8" water pipe extensions to Bright Road and Grandee Cliffs Subdivision. Area 4B water extension is located on Bright Road from Riverside Drive and 1,200 feet east of Riverside Drive; Area 4C encompasses Grandee Cliffs subdivision and Bright Road starting at 1,200 feet east



UTILITIES – WATER DISTRIBUTION SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

of Riverside Drive to MacBeth Drive. The added portion of 4A in this project includes 4780 Bright Road, and 7230-7348 Riverside Drive.

This project provides for 36 parcels to receive access to water service. Construction is programmed for 2019.

EW178 **Water Line Extensions – Area 3A & 8A**

This project provides area 3A with 12" water pipe extensions to Riverside Drive and is located along Riverside Drive from Hard Road to Wyandot Woods Boulevard. Area 8A will provide 8" & 16" water pipe extensions to Cara Road, Cara Court, and Rings Road west of Avery Road. The timing of these projects are being leveraged with other projects being scheduled in the area at the time.

Design and site acquisition is programmed in 2020 with construction reflected beyond the five-year program period.

EW179 **Water Line Extensions – Area 2B & 2C**

Area 2B & 2C will provide 6", 8", and 12" water pipe extensions to Riverside Drive and O'Shaughnessy Hills. Area 2B is located on Riverside Drive from Summit View Road to 8449 Riverside Drive. Area 2C encompasses O'Shaughnessy Hills subdivision east of Riverside Drive. This project provides for 122 parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW17A **Water Line Extensions – Area 8C**

Area 8C will provide 8" water pipe extensions to Old Wilcox Road. Area 8C is located on Old Wilcox Road between Tuttle Crossing Blvd. and Wilcox Road. This project provides for five parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW190 **Bright Road 12" Water Main Extension**

This project provides for a 12" water main extension on Bright Road to provide a connection of a 12" water main between Emerald Parkway roundabout and an existing 12" water main at the Village of Inverness. This will provide a looped water main connection for Riverside Woods, Bryson Cove, Hanna Hills, Kiplinger, Glenbriar neighborhoods, Dublin Scioto High School, and Washington Township Fire Department. Currently there is a single 12" water main supplying water beyond the



UTILITIES – WATER DISTRIBUTION SYSTEM CAPITAL ENHANCEMENTS / NEW CAPITAL INFRASTRUCTURE

Emerald Parkway and Hard Road intersections. The extension will serve Area 4A, 4B, and 4C sanitary and water design currently in process (2018).

Design and site Acquisition for this project is programmed in 2019 with construction programmed in 2020.

EW191 **Water Line Extensions – Areas 9 & 10B**

This project will provide 8" and 12" public water main utility extensions in Area 9 to Olde Dublin Woods Drive, Betonywood Place, Red Oak Lane, and Hirth Road. Area 10B includes water main extensions to serve Locus Hill Lane.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW192 **Water Line Extensions – Area 10A**

This project will provide Area 10A with 8" water pipe extensions to Thornhill Lane. This project provides for 27 parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.

EW193 **Riverside Drive 12" Water Main Extension - Area 22**

This project will provide Area 22 with 12" water pipe extension on Riverside Drive. The area is situated on Riverside Drive from Martin Road to 600 feet north of Martin Road. The project provides for two parcels to receive water service.

Design, site acquisition and construction for this project is reflected beyond the five-year program period.



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17 | Summary



SUMMARY

PROJECT DESCRIPTION	2019	2020	2021	2022	2023	2024	TOTAL 2020- 2024 (\$000)	BEYOND 2024 (\$000)	TOTAL BUDGETED
Administration - Capital Allocations	\$1,850	\$2,170	\$2,000	\$2,000	\$2,000	\$2,000	\$10,170	\$0	\$10,170
Total - ADMINISTRATION	1,850	2,170	2,000	2,000	2,000	2,000	\$10,170	\$0	\$10,170
City Facilities - Capital Maintenance	819	1,350	565	565	1,400	280	\$4,160	\$140	\$4,300
City Facilities - Capital Enhancements / New Capital Infrastructure	6,000	1,360	0	0	10	1,130	\$2,500	\$5,040	\$7,540
Total - CITY FACILITIES	6,819	2,710	565	565	1,410	1,410	\$6,660	\$5,180	\$11,840
City-Wide Fleet - Capital Maintenance	1,565	1,175	1,185	1,350	980	1,080	\$5,770	\$0	\$5,770
City-Wide Fleet - Capital Enhancements / New Capital Infrastructure	115	180	0	40	0	40	\$260	\$0	\$260
Total - CITY-WIDE FLEET	1,680	1,355	1,185	1,390	980	1,120	\$6,030	\$0	\$6,030
Parks - Capital Maintenance	815	1,055	815	815	815	815	\$4,315	\$0	\$4,315
Parks - Capital Enhancements / New Capital Infrastructure	12,695	6,670	7,975	25	1,425	325	\$16,420	\$18,390	\$34,810
Total - PARKS	13,510	7,725	8,790	840	2,240	1,140	\$20,735	\$18,390	\$39,125
Police - Capital Maintenance	390	150	20	0	60	270	\$500	\$0	\$500
Police - Capital Enhancements / New Capital Infrastructure	505	720	950	0	0	120	\$1,790	\$0	\$1,790
Total - POLICE	895	870	970	0	60	390	\$2,290	\$0	\$2,290
Utilities - Sanitary Sewer - Capital Maintenance	2,025	1,750	550	1,750	550	1,750	\$6,350	\$2,050	\$8,400
Utilities - Sanitary Sewer - Capital Enhancements / New Capital Infrastructure	3,070	4,650	1,545	0	0	0	\$6,195	\$8,965	\$15,160
Total - UTILITIES - SANITARY SEWER	5,095	6,400	2,095	1,750	550	1,750	\$12,545	\$11,015	\$23,560
Utilities - Stormwater - Capital Maintenance	575	575	675	575	675	575	\$3,075	\$675	\$3,750
Utilities - Stormwater - Capital Enhancements / New Capital Infrastructure	400	1,490	250	250	250	250	\$2,490	\$250	\$2,740
Total - UTILITIES - STORMWATER	975	2,065	925	825	925	825	\$5,565	\$925	\$6,490
Computer Hardware / Software / Fiber - Capital Maintenance	1,100	1,100	1,100	1,100	1,100	1,100	\$5,500	\$0	\$5,500
Computer Hardware / Software / Fiber - Capital Enhancements / New Capital Infrastructure	220	790	665	665	395	395	\$2,910	\$0	\$2,910
Total - COMPUTER HARDWARE / SOFTWARE / FIBER	1,320	1,890	1,765	1,765	1,495	1,495	\$8,410	\$0	\$8,410
Transportation - Bicycle and Pedestrian - Capital Maintenance	690	560	680	565	595	740	\$3,140	\$690	\$3,830
Transportation - Bicycle and Pedestrian - Capital Enhancements / New Capital Infrastructure	545	50	1,320	375	70	890	\$2,705	\$7,305	\$10,010
Total - TRANSPORTATION - BICYCLE AND PEDESTRIAN	1,235	610	2,000	940	665	1,630	\$5,845	\$7,995	\$13,840
Transportation - Bridges and Culvert - Capital Maintenance	1,295	1,100	1,770	1,215	1,795	1,010	\$6,890	\$375	\$7,265
Transportation - Bridges and Culvert - Capital Enhancements / New Capital Infrastructure	9,515	0	0	0	0	0	\$0	\$36,050	\$36,050
Total - TRANSPORTATION - BRIDGES AND CULVERTS	10,810	1,100	1,770	1,215	1,795	1,010	\$6,890	\$36,425	\$43,315
Transportation - Streets and Parking - Capital Maintenance	7,385	7,815	7,720	7,735	8,315	8,775	\$40,360	\$8,810	\$49,170
Transportation - Streets and Parking - Capital Enhancements / New Capital Infrastructure	6,635	23,960	36,365	9,530	12,500	225	\$82,580	\$89,800	\$172,380
Total - TRANSPORTATION - STREETS AND PARKING	14,020	31,775	44,085	17,265	20,815	9,000	\$122,940	\$98,610	\$221,550
Utilities - Water - Capital Maintenance	0	10	390	0	0	0	\$400	\$0	\$400
Utilities - Water - Capital Enhancements / New Capital Infrastructure	1,685	970	75	600	75	0	\$1,720	\$5,005	\$6,725
Total - UTILITIES - WATER	1,685	980	465	600	75	0	\$2,120	\$5,005	\$7,125
TOTALS:									
Capital Maintenance	16,659	16,640	15,470	15,670	16,285	16,395	\$80,460	\$12,740	\$93,200
Capital Allocations	1,850	2,170	2,000	2,000	2,000	2,000	\$10,170	\$0	\$10,170
Capital Enhancements / New Capital Infrastructure	41,385	40,840	49,145	11,485	14,725	3,375	\$119,570	\$170,805	\$290,375
TOTAL PROJECT BUDGET	\$59,894	\$59,650	\$66,615	\$29,155	\$33,010	\$21,770	\$210,200	\$183,545	\$393,745
Advances (Capital Improvement Tax Fund)	0	350	1,210	0	1,300	0	\$2,860	\$140	\$2,860
GRAND TOTAL	\$59,894	\$60,000	\$67,825	\$29,155	\$34,310	\$21,770	\$213,060	\$183,685	\$396,605

**SUMMARY**

		2020	MUNIS	
			ORG	OBJECT
Section 4 - ADMINISTRATION				
AL201	Annual Allocation for Land Acquisition	500,000	40196290	741000
AL202	Annual Allocation for Parkland Acquisition	750,000	40280290	735001
AL193	Annual Allocation for Mobility	250,000	40180290	736000
AL203	Annual Allocation for Bikeshare	220,000	40180290	736000
AA201	Annual Allocation for Contingencies	250,000	40180290	737000
ES142	Annual Allocation for Sewer Extensions	200,000	40196290	741000
Section 5 - FACILITIES				
MAINTENANCE				
AB201	Building Maintenance/Renovations			
	City Hall / Annex	35,000	40180350	735002
	Fleet Maintenance Building	30,000	40180350	735002
	Justice Center	355,000	40180350	735002
	Parks	45,000	40180350	735002
	DCRC	210,000	40180350	735002
	Small In-House Renovations	25,000	40180350	735002
	HVAC & Pump Replacements	25,000	40180350	735002
	Carpet/Flooring Replacements	45,000	40180350	735002
	Painting/Patching Walls (as needed)	30,000	40180350	735002
AB195	DCRC - Replacement Chiller Units	550,000	40180350	735002
RENOVATIONS/IMPROVEMENTS				
AB203	Service Center - Security Gates	25,000	40180350	735002
AB204	Renovations - 5200 Emerald Parkway	235,000	40180350	735002
AB205	DCRC Improvements	350,000	40180350	735002
AB193	Renovations - 5555 Perimeter Drive	750,000	40180350	735002
Section 6 - FLEET				
MAINTENANCE				
AV201	Vehicle Replacement	870,000	40180370	734004
AV203	Equipment Replacement	305,000	40180370	734004
NEW (ADDITIONS TO THE FLEET)				
AV201	Vehicles	140,000	40180370	734004
AV203	Equipment	40,000	40180370	734004
Section 7 - PARKS				
MAINTENANCE				
AR201	Park Maintenance	1,040,000	40180430	735005
AB202	Public Art Maintenance (Hotel/Motel Tax Fund)	15,000	23280430	735005
RENOVATIONS/IMPROVEMENTS				
AG17B	Bike Rack Installation	25,000	40180430	735005
GR992	Coffman Park Expansion	400,000	40180430	735005
GR114	Ferris-Wright Park	95,000	40180430	735005
GR115	Dublin Community Pool North (Debt)	6,000,000	40480430	735005
GR171	Dublin Community Pool South	150,000	40180430	735005
Section 8 - POLICE				
MAINTENANCE				
PP171	Walkie Upgrades	150,000	40180890	734001
NEW ENHANCEMENTS/INFRASTRUCTURE				
PP193	Consoles for Radio Room (additional)	350,000	40180890	734001
PP197	Drug disposal Incinerator	45,000	40180890	734001
PP201	911 Answering Positions	175,000	40180890	734001
PP202	Automated Voice Dispatching	150,000	40180890	734001



SUMMARY

		MUNIS	
	2020	ORG	OBJECT
Section 9 - SANITARY SEWER			
MAINTENANCE			
ES071 Sewer Lining and Repair	1,500,000	62380320	735008
ES201 Sanitary Sewer Maintenance Program	250,000	62080320	735008
NEW ENHANCEMENTS/INFRASTRUCTURE			
ES179 Deer Run Sewer Upsizing - Group #1 (Debt)	2,920,000	62380320	735008
ES178 Deer Run Sewer Upsizing - Group #2	70,000	62080320	735008
ES17A Deer Run Sewer Upsizing - Dumfries Court (Debt)	1,660,000	62380320	735008
Section 10 - STORMWATER			
MAINTENANCE			
AF201 Annual Stormwater Maintenance	575,000	40180320	735010
NEW ENHANCEMENTS/INFRASTRUCTURE			
EF181 Rings Farm Stream Relocation	1,240,000	40180320	735010
EF200 Allocations for Various Stormwater Improvements	250,000	40180320	735010
Section 11 - TECHNOLOGY			
AI201 Information Technology	875,000	40180610	732000
Information Technology (Hotel/Motel Tax Fund)	10,000	23280610	732000
Sewer (Sewer Fund)	15,000	62080610	732000
AI202 Smart Cities	200,000	40180610	732000
AI172 Connected Vehicles Systems Infrastructure	50,000	40180610	732000
AI183 US33 COG Infrastructure	75,000	40180610	732000
AI194 Fiber Optic AND Traffic Fiber Enhancements	390,000	40180610	732000
AI203 Data Platform	275,000	40180610	732000
Section 12 - TRANSPORTATION - BICYCLES & PEDESTRIANS			
MAINTENANCE			
AT203 Annual Shared-Use Path Maintenance	250,000	40180320	735006
AT206 Annual Sidewalk Program	250,000	40180320	735006
AT179 Historic Dublin Sidewalk Program	60,000	40180320	735006
NEW ENHANCEMENTS/INFRASTRUCTURE			
ET176 Avery Road Sidewalk Connections (Hyland Drive to Tara Hill)	15,000	40180320	735006
ET178 Wilcox Road Shared-Use Path (Northcliff to Heather Glen Blvd and Wilcox Place to Shier Rings Road)	35,000	40180320	735006
Section 13 - TRANSPORTATION - BRIDGES & CULVERTS			
MAINTENANCE			
AT20C Annual Vehicular Bridge Maintenance	1,000,000	40180320	735006
AT208 Annual Pedestrian Tunnel Maintenance	60,000	40180320	735006
AT20H Annual Pedestrian Bridge Maintenance	40,000	40180320	735006
Section 14 - TRANSPORTATION - STREETS & PARKING			
MAINTENANCE			
AT201 Annual Street Maintenance Program	6,300,000	40180320	735006
AT20A Annual Guardrail Replacement & Maintenance	155,000	40180320	735006
AT207 Annual Parking Lot Maintenance	90,000	40180320	735006
AT20E Annual Retaining Wall & Decorative Wall Maintenance	130,000	40180320	735006
AT20F Annual Pavement Preventive Maintenance	565,000	40180320	735006
AT18G Traffic Signal Wiring and Cabinet Maintenance and Replacement	250,000	40180320	735006
AT19I Shier Rings Park Wall Rehabilitation	110,000	40180320	735006
AT19J Eiterman and Ballantrae Intersection Paver Repair/Replacement	215,000	40180320	735006
NEW ENHANCEMENTS/INFRASTRUCTURE			
ET202 Avery Road and Rings Road/Cara Road Interim Intersection Improvements (Rings Road TIF)	610,000	42680320	735006
ET066 Eiterman Road Relocation (West Innovation TIF - via advance)	2,860,000	45980320	735006
ET517 Shier Rings Road - Avery Road to Eiterman Road - University Blvd. ph 2 (General Fund Transfer)	9,630,000	40180320	735006
ET523 Perimeter Drive Widening - Holt Road to Commerce Parkway (Perimeter Center TI	300,000	42580320	713004
ET16D North Riverview Rehabilitation	75,000	40180320	735006
ET158 Sawmill Road - Snouffer Road Intersection Improvements	100,000	40180320	735006

**SUMMARY**

	2020	MUNIS	
		ORG	OBJECT
ET158 US33/SR161/Post Road interchange (Perimeter West TIF)	850,000	43180320	735004
ET16E Comprehensive Wayfinding System (city wide)	55,000	40180320	735006
ET203 Overhead Utility Removal - South High Street	360,000	40180320	735006
ET191 Avery and Shier Rings Road Roundabout & Old Avery	8,520,000	40180320	735006
(Innovation TIF)	100,000	46496290	741000
ET192 Bright Road Improvements	200,000	40180320	735006
PARKING			
ET17A Smart Parking/Bridge Street Parking Control/Metering Equipment	400,000	40180320	735006
Section 15 - WATER			
MAINTENANCE			
EW172 Tartan West Water Tank Re-Painting	10,000	61080320	735009
NEW ENHANCEMENTS/INFRASTRUCTURE			
AW101 Waterline Replacement	600,000	61080320	735009
EW178 Water Extensions - Areas 3A and 8A	235,000	61080320	735009
EW190 Bright Road 12" Water Main Extension	135,000	61080320	735009

Note: All account numbers above are subject to change. This list is meant as a guide, however, changes during the year (2020) may be necessary.