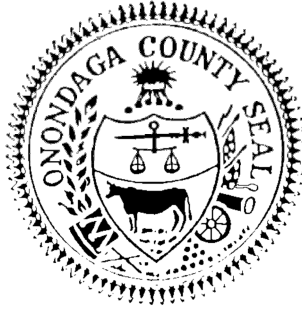


ONONDAGA COUNTY
NEW YORK



2020 – 2025
CAPITAL IMPROVEMENT PLAN

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County Executive

Brian J. Donnelly
Deputy County Executive

Mary Beth Primo
*Deputy County Executive for
Physical Services*

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Chief Fiscal Officer

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CAPITAL IMPROVEMENT PLANNING COMMITTEES

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ONONDAGA COUNTY PLANNING BOARD

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Chairperson

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James Corbett (Vice Chair Person)

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Marty Voss (ex officio)

David Skeval

Matthew Beadnell (ex officio)

STAFF TO THE PLANNING COMMITTEES

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J. Ryan McMahon, II
COUNTY EXECUTIVE

Onondaga County Planning Board

Onondaga County Planning Board Resolution Concerning the 2020 to 2025 Capital Improvement Plan

WHEREAS, pursuant to the Administrative Code of the County of Onondaga, Section 6.02 (d), the Onondaga County Planning Board has reviewed the 2020 – 2025 Tentative Capital Improvement Plan; and

WHEREAS, debt management remains a high priority in the 2020 – 2025 Tentative Capital Improvement Plan; and


WHEREAS, the projects proposed in the 2020 – 2025 Tentative Capital Improvement Plan emphasize the maintenance of existing county facilities and transportation assets, stewardship of the natural environment, and sound fiscal management; and

WHEREAS, the goals and policies of Onondaga County's comprehensive plan, the *2010 Development Guide and Framework For Growth in Onondaga County*, support economic growth, an attractive community, well maintained and cost effective infrastructure, stewardship of natural resources, investment in existing communities, and sustainable development practices; and

WHEREAS, the 2020 – 2025 Tentative Capital Improvement Plan is consistent with the goals and policies of the *2010 Development Guide* for Onondaga County; and

WHEREAS, the Capital Improvement Plan provides an effective means of communicating the intention of the County of Onondaga with respect to planned capital investments; and

NOW, THEREFORE BE IT RESOLVED, that the Onondaga County Planning Board endorses the 2020 – 2025 Tentative Capital Improvement Plan.


Daniel Cupoli, Chairman
Onondaga County Planning Board
October 9, 2019

1100 Civic Center, 421 Montgomery Street, Syracuse, NY 13202
Phone: (315) 435-2611, Fax (315) 435-2439
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OVERVIEW

Section 1

INTRODUCTION TO CAPITAL PLANNING

A Capital Improvement Plan (CIP) serves as a guideline for the orderly acquisition and refurbishment of capital assets within the financial resources of the community. One of the key elements of a successful CIP is a clear position as to what a capital project is. In Onondaga County, a capital project is understood to be an expenditure of considerable cost that has a long, useful life. As a matter of policy, capital requests are not considered for the CIP if: 1) the total cost of the project is less than \$250,000; 2) the project has a useful life of less than five years; 3) the request involves the procurement of vehicles.

About This Document

The 2020-2025 CIP contains four major sections. The first provides an understanding of the capital planning process and its relationship to development and land use planning. It also describes revenue sources and the county's debt management policy. The second section contains debt service narrative and summary information, as well as program summary analysis. A location map also appears at the end of section two. Section three contains narrative description and financing plans for proposed projects, as well as narrative description of completed and ongoing projects. This section is subdivided by the funds that support it. Section four contains a glossary of terms.

The Capital Planning Process

Capital planning involves the County Executive, members of the County Legislature, heads of various county departments, and a citizen advisory board in a process that determines capital needs, alternatives, and priorities. The development of the CIP takes place over several months, beginning in February of each year, and includes five major phases:

- 1 In March, department heads begin preparation of project proposals in accordance with executive guidelines.
- 2 In May, proposals are submitted to the CIP Coordinator at Department of Facilities Management. The proposals are analyzed by CIP Coordinator in conjunction with DMB and the Syracuse-Onondaga County Planning Agency. The Law Department is consulted as needed.
- 3 By September, the County Executive has approved a tentative CIP, which is presented to the Capital Program Committee (a committee of legislators and representatives from the executive branch of county government). Later, after the budget presentation to the County Legislature, the CIP is presented to the County Planning Board (a citizen advisory group).
- 4 In September, the Tentative CIP is presented with the county's Annual Operating Budget to the Ways & Means Committee of the County Legislature, and then to the full Legislature in October for approval.
- 5 From October to March, research on capital planning and management is conducted, and the prior year's process is revised as necessary.

Coordination and interaction among units of government occurs throughout the process, both formally and informally. The heads of county departments are consulted to discuss questions and recommendations regarding particular projects. Some of the major criteria for evaluating proposals are:

- Relationship of the project to the goals of the County Executive;
- Degree of the overall need for the project;
- Fiscal impact, including the county's capacity to borrow;
- Non-county funding sources;
- Consistency with the goals and policies in the 2010 Development Guide;
- Community participation and support.

The final product of this process is a six-year plan to improve or construct those facilities or components of county infrastructure considered necessary to provide or maintain an adequate level of public service. Approval by the County Legislature is not a commitment to fund every project in the plan, but rather it is an

indication of support for the plan as a whole. Projects that require borrowing must be presented to the Legislature individually in order to secure authorization to incur debt.

THE COUNTY'S INFRASTRUCTURE

Capital projects can be separated into two basic classes: infrastructure and facilities. Both infrastructure and facilities projects have an important role in economic development. Infrastructure includes sewer systems and highways. These linear systems drive the pattern of urban and suburban growth, and can be used as an important tool to influence economic development. County facilities such as the Civic Center, Onondaga Community College and the Whitney Applied Technology Center, County Parks, the Justice Center, the Correction Center at Jamesville, and the Convention Center provide locations for carrying out social, cultural, educational, and recreational programs.

The CIP serves to coordinate projects sponsored by different departments for maximum impact in a given location. Water, sewer, and highway projects - when coordinated - can provide capacity to support new development. New water service, while relatively inexpensive to provide, creates demand for sewers, wastewater treatment capacity, and improved highways. Significant savings in tax dollars can be achieved when priority is given to projects that utilize existing infrastructure over projects that require extensions to be built.

The goal of most capital expenses in this CIP is to maintain facilities at a level so as to prevent major replacement expenditures in the future. Some infrastructure projects could represent new capacity or enable development of new areas within the county. Wastewater treatment projects are designed to meet mandated water quality standards under the Federal Clean Water Act through the Amended Consent Judgment (ACJ).

Water

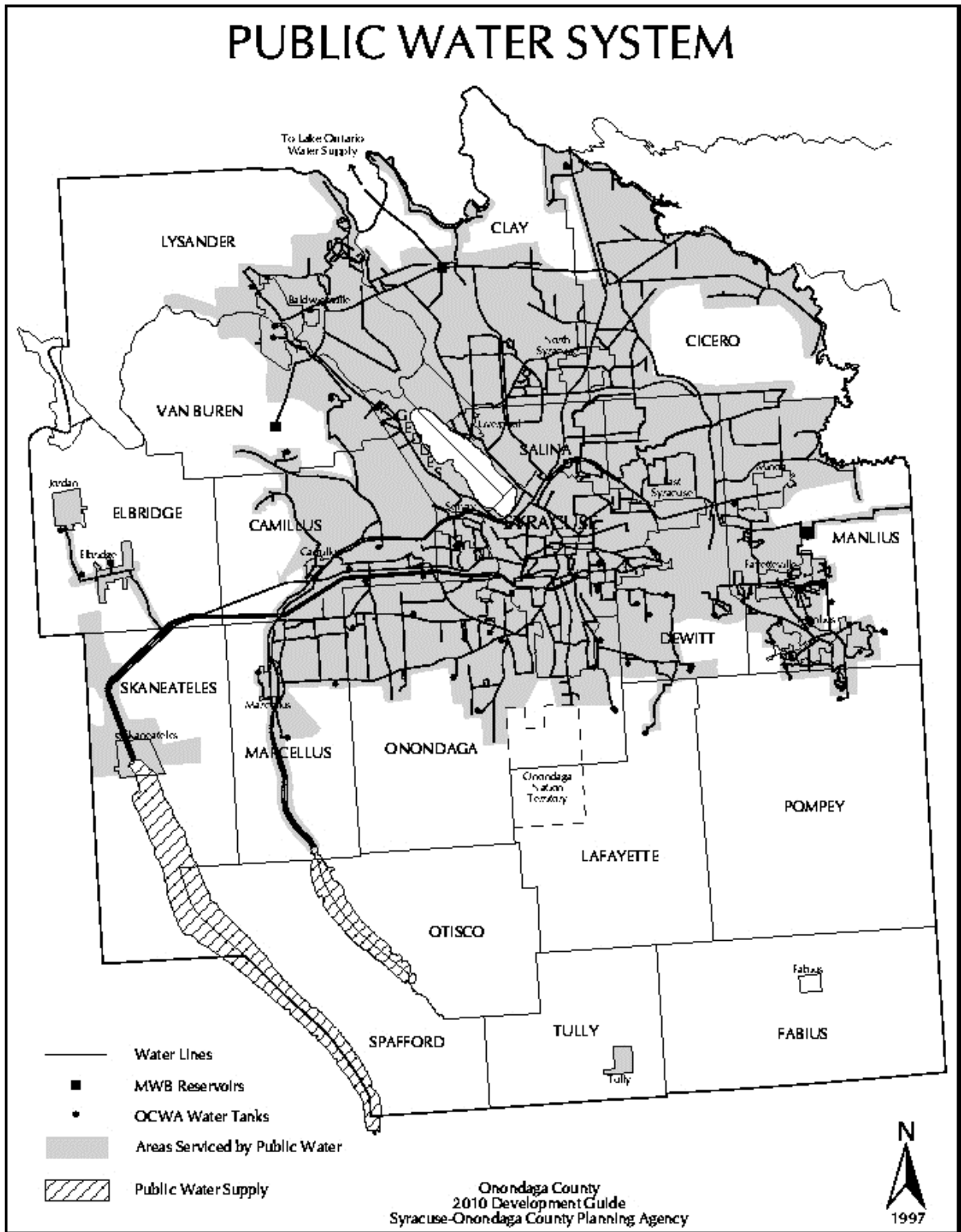
Effective January 1, 2017, Onondaga County entered into a Public Water Supply Cooperation Agreement with the Onondaga County Water Authority (OCWA), under which OCWA agreed to lease and operate the assets of the Onondaga County Water District.

Responsibility for capital projects initiated by the Metropolitan Water Board (MWB) was transferred to OCWA as of January 1, 2017. OCWA is also authorized and obligated to perform maintenance services on these assets.

The County continues to be responsible for existing debt obligations for and on behalf of the District. Under the terms of the Cooperation Agreement, the County retains the right to impose an ad valorem tax on specially benefitted properties within the District and to provide for an external charge to be passed on to OCWA's customers.

Under the Cooperation Agreement, OCWA is required to pay to the County the annual amount needed as a revenue to balance the budgeted appropriations made by the county on behalf of the District, including costs of debt service.

The County does not plan to undertake any capital projects for, or on behalf of, the District.



Sewers

The Department of Water Environment Protection (WEP) is responsible for wastewater treatment and transmission for the area within the Consolidated Sanitary District (CSD), which includes the City of Syracuse and all or part of eleven suburban towns including: Camillus, Cicero, Clay, Dewitt, Geddes, Lysander, Manlius, Onondaga, Pompey, Salina, and Van Buren. The Department also provides maintenance services for the following villages: Marcellus, Camillus, East Syracuse, Fayetteville, Liverpool, North Syracuse, Solvay and Manlius. The Sanitary District was formed in 1978 (see map on p. 7) to provide an equitable base for financing capital and operating costs associated with the wastewater system; a sewer unit charge (standardized fee) for service finances the system. The capital plan, maintenance, and operation of the CSD are entirely supported by fees for service, primarily through the sewer unit charge; no county tax support is provided to the CSD. The CSD boundary serves as a planning tool for decisions about extensions to new areas and other issues. The CSD provides approximately one-hundred-twenty thousand residential units (one unit per household and ¾ unit per apartment) of service, and approximately sixty-six thousand units of commercial/industrial service, based on a unit volume equivalent of one-hundred-thirty seven thousand gallons per unit. The unit charge is only charged to properties in the district with a sewer connection. Industrial users are required to remove non-compatible pollutants, such as heavy metals, at the source. Certain high strength wastes, meeting strict local parameters, are also allowed by permit and with industrial waste surcharges.

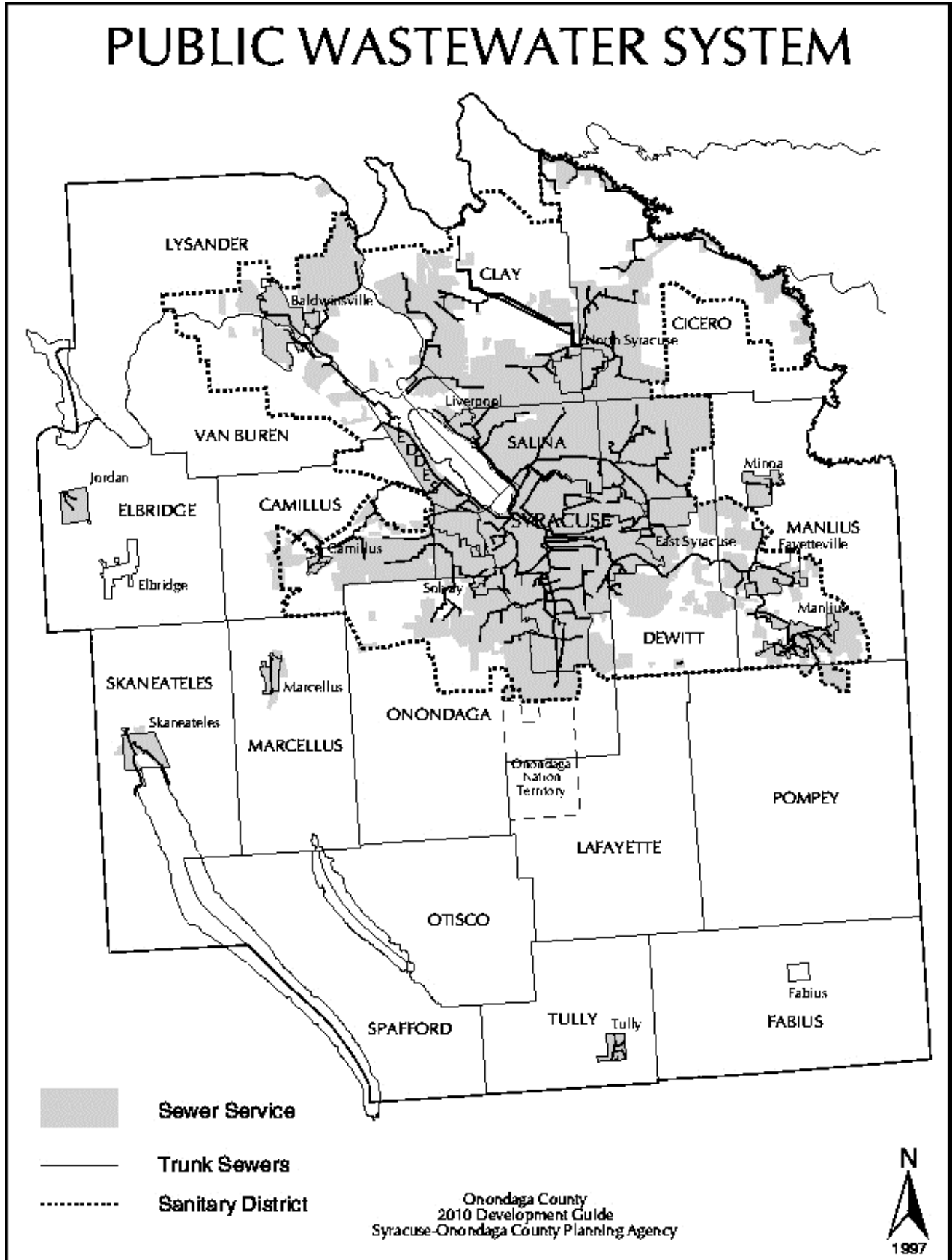
The wastewater system infrastructure managed by WEP includes six sewage wastewater treatment plants: Baldwinsville-Seneca Knolls, Brewerton, Meadowbrook-Limestone, Oak Orchard, Syracuse Metropolitan Treatment Plant, and Wetzal Road Wastewater Treatment Plants. The CSD is responsible for the interceptor sewers of the combined sanitary and storm water sewer system (CSO); much of this combined sewer infrastructure was constructed many decades ago and serves most of Syracuse. During heavy rains, overflow from the combined sewers discharges into several creeks. The CSD is responsible for the maintenance and repair of more than two thousand one hundred miles (six inches to twelve feet in diameter) and for the operation, maintenance, and repair of fifty-two CSD owned sewage-pumping stations, one hundred six municipal pump stations, and nine combined sewer overflow treatment facilities. Asset maintenance responsibilities include the inspection, maintenance, and repair of four hundred seventy miles of County owned trunk and interceptor sewer infrastructure in the Consolidated Sanitary District. While capital repair and replacement of the local sewers remain the responsibility of the towns, villages or the city, the county maintains many of these aging assets via inter-municipal agreements, allowing fee-for-service reimbursement to the CSD for these routine maintenance services. Several municipal collection systems within the CSD also collect taxes to pay for the maintenance of local municipally owned pump stations and collection sewers.

Transportation

Onondaga County owns and maintains 25.4% or 793 miles of the combined public highway system within the County and is comprised of arterials, collectors and local roads (see map p.8). Of these, thirty-nine miles are four or five lane highways, some divided by medians. The Onondaga County Department of Transportation (OCDOT) uses a computerized pavement condition survey performed annually to determine priorities for maintenance, rehabilitation, and reconstruction. The goal of this system is to minimize the need for major reconstruction by performing timely maintenance and extending pavement life. The County's bridges are also inspected on a biennial basis to determine rehabilitation needs.

The Department of Transportation is responsible for project planning, detailed project design, right-of-way acquisitions, construction layout and inspection of major highway reconstruction projects funded by Federal, State, and local dollars. Additionally the OCDOT is responsible for the inspection, maintenance, and rehabilitation of 210 bridges, numerous culverts as well as operating and maintaining 125 signals and beacons throughout the County.

The Department of Transportation performs routine maintenance functions and limited repaving and rehabilitation with County forces. Private contractors are used to build major construction projects and to repave hot mix and cold mix bituminous highways. These projects are competitively bid as mandated by state law. The Department is currently administering federal highway funds on numerous projects. The Department of Transportation operates four Highway Maintenance Facilities- Camillus, Marcellus, Jamesville, and North Area - as bases for fleet maintenance, material storage, and labor deployment. The Administration and Engineering Divisions are located on the 11th floor of the John H. Mulroy Civic Center.



PATTERN OF COUNTY ROAD JURISDICTION



— County Roads

Onondaga County
2010 Development Guide
Syracuse-Onondaga County Planning Agency



ONONDAGA COUNTY 2010 DEVELOPMENT GUIDE

In 1991, the Onondaga County Legislature adopted the 2010 Development Guide to outline county policy with respect to infrastructure, land development, the environment, and fiscal capacity. The Guide was updated with current demographic and economic data, better graphics, and a more concise, understandable format. The updated Guide was approved by the County Legislature on June 1, 1998, and is now the official Onondaga County plan. The County is currently working on a new County Plan.

New water lines, sewers, and roads have the effect of creating new developable land. The Guide seeks to prevent premature public expenditures, which foster urban sprawl and create unnecessary capital and operating expenses. The Guide stresses the desirability of infill development in areas served by utilities, in order to balance trends toward sprawl with the ability of a static population to pay for infrastructure. Decisions to extend utilities to provide new urban land will be related to economic growth and job creation, as well as the capacity of complementary infrastructure systems to support growth in a particular location.

Background

In New York State, municipalities - cities, towns and villages - have strong land use controls available through zoning and subdivision regulations. Counties, on the other hand, have no state enabling legislation with which to manage growth. Many urban counties, however, have large investments in infrastructure; the timing of highway, wastewater treatment, and water facility improvements can directly influence growth patterns.

Onondaga County constructs and maintains many public works facilities, and therefore has the ability to affect land development patterns. The county adopted the 2010 Development Guide to define the conditions for extensions of county highways, sewer, and water lines. By implementing these policies through the capital program, the county can guide development and control capital and operating expenditures.

Employment Trends

According to the New York State Department of Labor's Quarterly Census of Employment and Wages (QCEW), annual average employment by place of work in Onondaga County grew slightly from 239,697 in 2010 to 245,893 in 2018. The number of firms increased slightly from 12,544 to 12,695 over the same period, with wages experiencing steady modest increases from \$43,199 in 2010 to \$51,998 in 2018 (QCEW). The New York State Department of Labor Local Area Unemployment Statistics (LAUS) program reported that employment by place of residency in Onondaga County decreased from 218,000 in 2010 to 211,900 in 2018. The annual unemployment rate decreased from 8.0% in 2010 to 4.0% in 2018.

Losses within the past decade, as seen in the following table, are attributed mostly to the national economic recession, as well as a local economy transitioning away from the region's formerly strong manufacturing base.

Labor Statistics in Onondaga County

	2000	2005	2010	2018
Annual Average Employment (by Place of Work in Onondaga County)	252,477	248,149	239,697	245,893
Annual Average Establishments (# of Firms)	12,280	12,565	12,544	12,695
Average Annual Wages	\$32,499	\$37,641	\$43,199	\$51,998
Employment (by Place of Residency in Onondaga County)	221,400	223,200	218,000	211,900
Annual Unemployment Rate	3.5%	4.5%	8.0%	4.0%
<i>Source: NYS Dept. of Labor QCEW and LAUS Programs</i>				

Demographic Trends

Demographic changes and growth patterns, along with changes in standards and technology (for wastewater treatment, for instance), will affect the need for capital projects in the next decade.

Population in Onondaga County has remained relatively unchanged over the past forty years, currently totaling 467,669 according to the 2013-2017 American Community Survey 5-Year Estimate. In general, population within the towns has increased, villages have remained unchanged, and the City of Syracuse has seen a steady decrease in population, with the City losing approximately 50,000 residents between 1970 and 2000. According to the 2010 Census and more recent ACS data, however, these relatively dramatic population shifts from city to suburb may be slowing – likely a result of several factors including urban revitalization, immigration, the national housing market slump, and changes in household makeup.

Demographic Statistics in Onondaga County

	1970 Census	2000 Census	2010 Census	2013-2017 ACS est.
Onondaga County Population	472,835	458,336	467,026	467,669
Town Population	275,538	311,030	321,856	323,264
City Population	197,297	147,306	145,170	144,405
Housing Units	153,576	196,633	202,357	206,707
Households	145,122	181,153	187,686	185,840
<i>Source: 1970, 2000, and 2010 US Decennial Census, American Community Survey 5-Year Estimate (2013-2017)</i>				

Urban sprawl, available infrastructure capacity, and a trend toward smaller families have resulted in an increase of more than 50,000 new housing units in Onondaga County since 1970, despite the stagnant regional population. Some of the new building activity is in response to changing family demographics, such as the aging population and smaller family and household sizes. However, when an excess of new housing is built at the edges of the urbanized area during a period of population stagnation, the result is decline and abandonment of the region’s oldest stock, often in the center of the City and within traditional villages. The ability for local and regional governments to sustain existing infrastructure and housing stock, while also

adding infrastructure and services in new areas is limited, particularly for those with older neighborhoods and infrastructure.

The suburbanization of both jobs and housing and the coming of age of the baby boomers have meant an annual growth in driving, road infrastructure, and traffic congestion for the last two decades. Low-density, single-use patterns of development in suburban and rural areas have limited the region's ability to offer transit service as a feasible alternative. Trends toward urban expansion have also resulted in increased flows at certain wastewater treatment plants and capacity constraints at some facilities. Infrastructure needs are compounded by the age of some of the county's infrastructure including the more than one hundred year old sewers in Syracuse and suburban roads built to farm-to-market standards. All these factors have necessitated the 2010 Development strategy to prioritize redevelopment, minimize the need for expanded infrastructure and to take maximum advantage of existing infrastructure and limited population growth.

The Land Use Plan

The 2010 Development Guide allows this community to anticipate the extent and location of growth over the coming decades. The plan considers the potential for further growth within the current service area of water and sewer lines, and anticipates only limited need for suburban growth beyond existing service areas. Desirable areas for growth have existing infrastructure capacity, and the cost effectiveness of public expenditures to support growth should be related to economic development and job creation and the need for additional urban land.

The plan provides a means for coordinating land use decisions by thirty-five municipalities with county plans for infrastructure and fiscal stability. The plan outlines the implications of continued low density development patterns: costs for building and maintaining water, sewers and roads increase directly with required lot width, as does the cost of police, fire, emergency services and school busing. Mass transit is effectively precluded from most towns by cost as well as trip times due to low density development patterns.

Land Use Plan and the CIP

Capital Improvement Planning is one of the county's most useful tools for implementing the policies of the 2010 Development Guide. The CIP process provides an inventory of anticipated capital projects, prioritizes these according to need, provides cost estimates, and analyzes the community's financing capabilities. Finally, it provides a schedule of project execution that relates projects to one another (e.g. scheduling sewer and water lines prior to or concurrent with road work in a given right-of-way) and to financing requirements.

The plan and the capital program take into account revenue and real property tax base trends, outstanding debt, debt service trends and legal debt limits. The capital plan is a major means of communication between one government department and another, between the executive and legislative branches of county government, and between the county and the development community and local governments which must be able to plan for growth in relation to infrastructure improvements. The capital plan includes anticipated capital projects regardless of whether these projects will be financed from current tax revenues, borrowing or grants.

2020 - 2025 Capital Plan Priorities

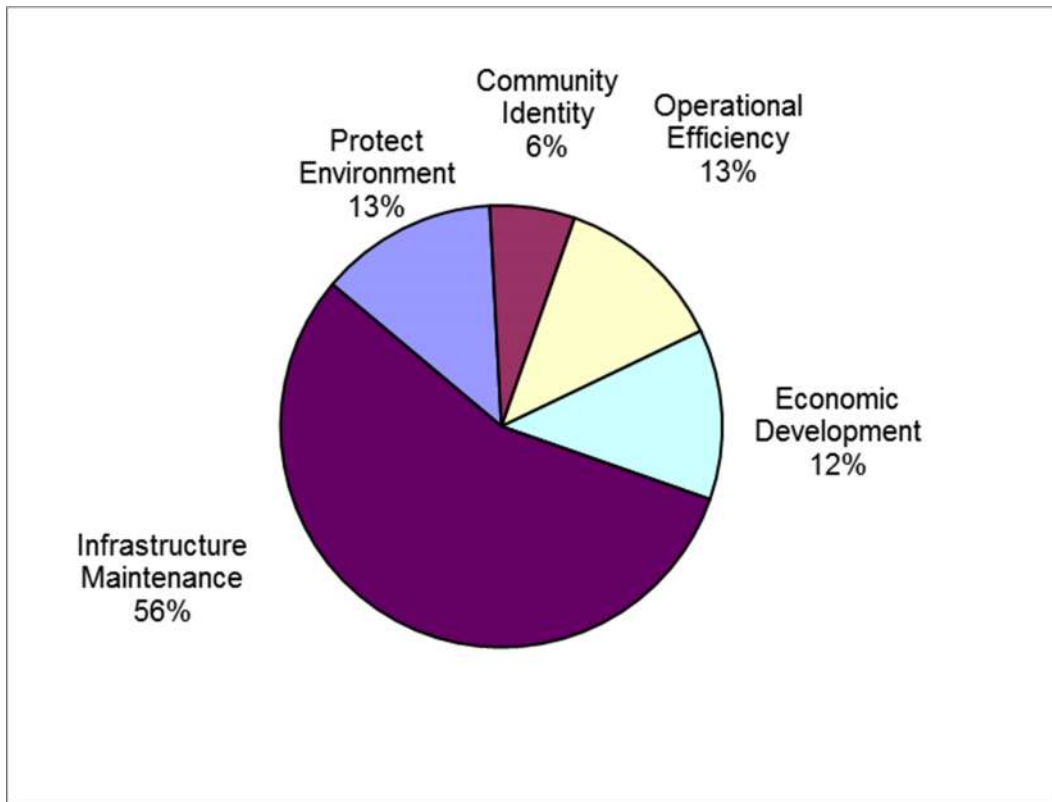
The 2020-2025 Capital Plan places high priority on projects that are consistent with the goals of the 2010 Development Guide. Most of our investments will be in the areas of infrastructure maintenance, environmental protection, and operational efficiency. Wastewater treatment projects account for 49.8% of the Capital Program. Mandated projects drive 38% of the proposed projects in this plan.

It should be noted that the Onondaga Lake project is now fully authorized. New wastewater treatment facilities and technologies will result in improved water quality in Onondaga Lake and the Seneca River system. The lake has become the focal point of large-scale private and public economic development projects, such as the Carousel Center, Inner Harbor redevelopment projects, William F. Walsh Transportation Center, the baseball stadium and renovated Regional Market, as well as expanded recreation and tourism initiatives such as Lakeview Amphitheater.

The highway program includes ten capital construction projects through 2025 in various locations throughout the urban and suburban parts of the county. Some of these projects represent reconstruction projects to address major rehabilitation of facilities, roads, bridges as well as drainage and shoulders, which will enhance safety. None of these projects are designed to increase capacity.

The graph that follows illustrates the percentage breakdown of the 2020-2025 Capital Plan priorities.

**2020-2025
CAPITAL PRIORITIES**



FUNDING SOURCES FOR CAPITAL PROJECTS

Funding sources for capital projects have, for the most part, been a combination of cash, municipal borrowing, and state and/or federal aid. More specifically, the sources cited in this document are as follows:

Federal Monies

Federal Aid (FED) - The financing of eligible projects through the use of federal funds, other than federal revenue sharing.

State Aid

State Aid (STA) - The financing of eligible projects through the use of state funds.

Pay as You Go

Cash on Hand (COH) - Direct financing available from either surplus monies from prior years' taxation, unneeded balances in existing capital accounts, or earnings on temporary investments.

County Tax Revenues (CTR) - The cash financing of countywide, general fund supported projects by property taxes.

Debt

Authorized

Countywide Authorized Borrowing (CAB) - The financing of a project by long or short-term borrowing that has been authorized by the County Legislature.

Special Districts Authorized Borrowing (DAB) - The financing of a project in a special district by long or short term borrowing that has been authorized by the County Legislature.

To Be Authorized

Countywide Borrowing to be Authorized (CBA) - The financing of a project by long or short term borrowing that will require authorization by the County Legislature before the project can be undertaken.

Special Districts Borrowing to be Authorized (DBA) - Financing of a project in a special district by long or short term borrowing that will require authorization by the County Legislature before the project can be undertaken.

Other Sources

Other (OTH) - The financing of projects from sources other than federal or state aid and not tax supported (i.e., private funds, fees).

Operating Funds

Capital projects in this plan are managed in one of four separate operating funds. A fund is defined as an independent fiscal and accounting entity with a self-balancing set of accounts recording cash and/or other resources together with all related liabilities, obligations, reserves, and equities which are segregated for the purpose of carrying on specific activities or attaining certain objectives. All activities and obligations of each fund are carried out within that specific fund alone. The four funds are:

1. **General Fund:** The largest fund within the county, the General Fund accounts for most of the county's financial resources. General Fund revenues include property taxes, licenses and permits, local taxes, service charges, and other types of revenue such as federal and state aid. This fund usually includes most of the basic operating services, such as public safety, finance, data processing, parks and recreation, highway, and other direct operating support. (Unlike the special funds below, the Community College Fund and Library Fund do not have separate taxing ability and for presentation purposes are included in the general funds totals in this document. Borrowing for capital projects in these funds is done through the county General Fund.)
2. **Van Duyn Extended Care Fund:** This fund was established to service the operating needs of the Van Duyn Long Term Care Facility. The county no longer covers this operation and the fund exists only to keep paying some scheduled debt that will be paid off by 2023.
3. **Water Fund:** The Water Fund was established to service the operations of the Metropolitan Water Board (MWB). On January 1, 2017, Onondaga County entered into a Cooperation Agreement with Onondaga County Water Authority (OCWA), which now leases and operate the assets of the MWB. Existing Water Fund debt service will continue to be the responsibility of Onondaga County and revenues used for such debt service will be collected by the County through the Water District's ad valorem assessment, with the remaining funds needed to support existing debt service to be received from OCWA under the Cooperation Agreement. All future maintenance expenditures and capital projects will be funded by OCWA for the 30-year term of the agreement.
4. **Water Environment Protection Fund:** The Water Environment Protection Fund (sewer fund), like the Water Fund, is a special district fund, established to service the operations of the Department of Water Environment Protection. This fund is wholly supported by revenues generated from a schedule of sewer rent charges, calculated in units, and assessed to service users of the Onondaga County Consolidated Sanitary District.

ONONDAGA COUNTY DEBT MANAGEMENT PLAN

The primary component of Onondaga County's debt management practice is the review of capital projects and the related debt service costs by the County Executive and the Division of Management and Budget. All capital projects are reviewed not only as they relate to current capital needs, but also to optimize the county's fiscal ability to meet its future capital needs.

A major emphasis in the county's debt management practice is the pay-as-you-go concept. For debt that has to be retired within five years, for capital expenditures of less than \$250,000, and capital projects that are annually recurring costs, the objective is to pay the capital cost using operating funds.

Additionally, the county has established the following general fund policies to guide its management of debt:

1. Debt service costs paid through the General Fund will not exceed 5.5% of total General Fund revenue.
2. The county's total net direct indebtedness will not exceed \$700 per capita or 1.5% of the full valuation of taxable property in the county.
3. Rapid pay down of debt will continue as a goal of the county's debt management policies, with a target of 65% of outstanding principal scheduled for retirement within ten years. This goal may be modified to reflect changes in the interest rate environment, which may argue for shorter or longer terms.

Local Finance Law prohibits the county from issuing debt in excess of the Debt Limit. The Debt Limit is defined as 7% of the five-year average full valuation of Taxable Real Property within the county. The county's use of its constitutional debt limit is 17.41% of its total capacity.

Bond counsel and the county's fiscal advisors play an important role in the bond issuing process. These consultants are influential in reducing borrowing costs by advising the county on how best to structure a bond issue and when best to go to market. They assist in the preparation of the county's Official Statement, ensuring that it meets all legal requirements, as well as including relevant information to present the county's

financial status and economic activities and comparisons. Additionally, they assist the county in the application for bond ratings, which provides investors with a symbol of credit quality that is easily recognized. Through careful fiscal planning and sound financial management, Onondaga County has earned the following ratings: Fitch AAA, S&P AA, Moody's Aa3.

Debt Management - Department of Water Environment Protection

For 2020, the County Executive is continuing the commitment to the current debt management efforts. While taking advantage of the current favorable interest rates we also utilize resources in the Department's operating budget to fund recurring capital needs. The main components of the plan call for greater investment in preventive maintenance, rapid retirement of debt that is issued, and the strategic use of the Water Environment Protection (WEP) designated fund balance and reserve for bonded debt. Many WEP authorized projects have been financed through the New York State Environmental Facilities Corporation (EFC). The EFC's no-interest construction loans and subsidized-interest long-term bonds have eased the interest rates the Department pays. The County Executive is committed to continued optimization of funding sources for the implementation of the plan.

FINANCIAL SUMMARIES

Section 2

ESTIMATED DEBT SERVICE

Borrowing Funds

Several methods are available to finance capital improvement projects. Onondaga County, like most governmental units, borrows money in order to acquire land and equipment, construct buildings, and make renovations and improvements. The cost of these capital projects is normally financed by the issuance of debt obligations, which are then repaid over several years along with the interest incurred on the borrowings. An amount is included in the county's annual operating budget to make these payments, which is defined as debt service. This policy enables the cost of these capital assets to be borne by the present and future taxpayers receiving the benefit of the capital assets or improvements.

The use of debt to finance capital projects has several advantages. Among other things, it allows the county to obtain for current use a capital facility that would go beyond its capacity to finance on a pay-as-you-go basis. In addition, the flexibility associated with the repayment of bonds allows the county to smooth out its expenditure pattern over a period of several years. The manner in which principal payments are structured has a large cumulative effect on interest payments, cash flow, and subsequently the county's operating budget.

Estimated debt service schedules are prepared to illustrate the current outstanding debt and the fiscal impact of new capital project requests on future debt service. This serves as a fiscal tool integral to the capital improvement planning process. These schedules, as well as graphs depicting the projected debt service payments if all projects were authorized, can be found in section 3 of this document.

In 2000, Onondaga County defeased \$10.7 million of debt using its fund balance. The County Legislature had passed a resolution in November 1999 that established a fund balance target of 10% of General Fund revenues. Any excess would be used to avoid or reduce debt and provide property tax relief. The defeasance had a benefit to taxpayers of \$11.7 million in 2000-2004. In August 2001, the county participated in a pooled financing with five other New York counties to sell its rights to the tobacco revenues guaranteed under the Master Tobacco Settlement Agreement with the four major tobacco companies. This resulted in defeasing \$95 million in Onondaga County General Obligation debt, lowering total debt service by \$130 million during the years 2002-2021. Again, in 2005, the county participated in another pooled financing with twenty-three other New York counties. With the proceeds, \$19.9 million of scheduled debt was defeased, benefiting the years 2007-2025. An additional \$11.6 million was set aside to finance energy saving initiatives, thereby avoiding debt. Taking advantage of the lowest interest rate environment in forty years, the county refunded \$18.5 million of ten year old bonds in 2003, saving \$1.8 million through 2014. In 2007, \$8 million in cash was used to fund capital projects, avoiding debt and maintaining the county's 10% fund balance target. In 2009 and 2012, successful refunding issues resulted in savings of \$3.3 million and \$1.2 million respectively. In 2014 the county issued \$19.6 million of refunding bonds saving over \$1.1 million and in 2015 the county issued \$11.4 million in refunding bonds saving \$0.66 million. The County once again refunded bonds in 2016 totaling close to \$34.8 million resulting in NPV savings of approximately \$3.2 million for 2017 through 2033. In 2017 the County refunded the 2013 bond issuance for a total issuance size of \$33,835,000. This resulted in an NPV savings of \$3.5 million.

In 2019, The County refunded the 2009 refunding bonds and the 2010 BAB and 2010 RZ bonds that produced NPV savings of \$1,929,015 for 2019 through 2030.

The county actively monitors its outstanding debt, reviewing the refunding opportunities, which will provide a target NPV of 3% savings.

As evidenced on page 21, the county's net indebtedness is currently at 17.41% of its total borrowing capacity.

Borrowing Criteria

In general, the State Legislature has granted the power and defined the procedure for the county to issue debt by enactment of the Local Finance Law (Chapter 33-A of the Consolidated Laws of New York). One central requirement states that the duration of debt payments cannot exceed the Period of Probable Usefulness (PPU). The maximum number of years over which bonded debt payments may be scheduled is determined by Bond

Financial Summaries

Counsel in accordance with specifications outlined in the Finance Law relative to the item for which the debt is incurred (Ref. Paragraph A of Section 11 of the Local Finance Law; Paragraph C of Section 21 of the Local Finance Law).

Pursuant to the Local Finance Law, the Onondaga County Charter and the County Law, the county authorizes the issuance of bonds by the adoption of a bond resolution, which must be approved by at least two-thirds of the members of the County Legislature. Upon approval, the County Legislature delegates to the County's Chief Fiscal Officer the power to authorize and sell bond anticipation notes in anticipation of bonds. Each bond resolution authorizes the construction, acquisition or installation of the object or purpose to be financed, the plan of financing, the amount of money being borrowed, and the PPU, which is also the maximum maturity of the bonds subject to legal restrictions.

Within these bonding requirements, the county has considerable flexibility in its borrowing program by issuing two basic forms of debt instruments: Serial Bonds (bonds) and Bond Anticipation Notes (BANs). BANs, due to their short term duration, (one year or less, renewable up to four times, not to exceed the PPU) are used to facilitate those borrowings for projects that have a PPU of five years or less, or are relatively small in amount or otherwise inappropriate for long term borrowings. In addition, BANs allow the county the flexibility to convert BANs to Serial Bonds when interest rates are most beneficial for long term debt. Any adjustments in principal payments, whereby the intent is to schedule debt retirement in less than the mandated period, must be done while the debt is still in the form of BANs. Flexibility is lost once BANs are converted to serial bonds. There is an exception to the four-time renewal limitation on BANs for Special District borrowing for Sewer and Water. BANs may be renewed indefinitely for special districts as long as it does not violate the assigned PPU.

Methodology

County departments' capital projects are organized alphabetically in this book. Each project includes a brief description, the cost summary and cash flow schedule for each of the years 2020-2025, the project detail, tentative financing plan, and status. Estimated debt service is calculated based on the cash flow schedule for those projects indicating the use of borrowing to finance the project in whole or in part.

Debt service for each capital project that anticipates borrowing has been calculated based on the following assumptions and calculations applied in projecting the payment schedules:

1 Interest rates are based on length and type of instrument used. While actual payments are determined by market conditions at the time of issuance, for planning purposes in this document, estimated payments were calculated using level debt payment schedules for a maximum of twenty years, at a 3.5% interest rate (certain Sewer Fund estimated payments could be calculated at 2.5% interest, anticipating the use of State revolving funds).

2 No principal payment is assumed in the first year.

Market Factors Affecting Bonds

The market for Bonds and Notes is affected by a variety of factors, some of which are beyond the county's control. Adverse events or rating downgrades at the Federal or State levels may occur, which could affect the market price of and the market for the Bonds and Notes. If a significant default or other financial crisis should occur in the affairs of the state or any of its agencies or political subdivisions, it could impair the acceptability of obligations issued by borrowers within the state. Both the ability of Onondaga County to arrange for additional borrowings, and the market for and market value of outstanding debt obligations, including the Bonds and Notes, could be negatively affected.

Debt Limits

Local Finance Law permits the county to issue General Obligation debt up to a statutory Debt Limit. The Statutory Debt Limit is 7% of the five-year average full valuation of Taxable Real Property within the county. Total Net Indebtedness is calculated by adding the county's short and long-term debt and subtracting the legal exclusions. As of July 3, 2019 the county had utilized 17.41% of its Statutory Debt Limit.

Should all Authorized and Unissued debt be issued this would represent 1.68% of the debt limit.

If the entirety of the projects proposed in the 2020 CIP advance and the corresponding debt is issued by the county in 2020 to fund said projects, this debt would represent 5.61% of the debt limit but combined with the debt that will retire in 2020 the net effect is a 4.27% of the debt limit. The following table shows the calculation of Total Net Indebtedness.

Calculation of Total Net Indebtedness

5-Year Average Full Valuation of Taxable Real Property	\$26,988,277,671
Debt Limit (7% of 5-year average) (1)	\$1,889,179,437

Outstanding Indebtedness	Scheduled Debt as of July 3, 2019	Authorized and Unissued Debt	Proposed Debt for 2020	Total Debt as of Dec 31, 2020
Bonds	\$674,416,611			
Bond Anticipation Notes	\$3,802,855			
Outstanding Gross Indebtedness	\$678,219,466	\$172,878,463	\$119,023,000	\$970,120,929
Less Exclusions (Sewer, Water, Defeased Debt)	(\$349,360,568)	(\$141,104,404)	\$ (13,032,000)	(\$503,496,972)
Less Retired Debt			(\$25,345,391)	(\$25,345,391)
Total Net Indebtedness	\$328,858,898	\$31,774,059	\$80,645,609	\$441,278,566
Debt Limit Margin	\$1,560,320,539			\$1,447,900,871
Percentage of Debt Limit Exhausted	17.41%	1.68%	4.27%	23.36%

(1) The Debt Limit of the county is computed in accordance with the provisions of Article VIII of the State Constitution and Title 9 of article 2 of the Local Finance Law.

CAPITAL PROJECT CLASSIFICATIONS

Capital projects are organized in this document by fund: County Wide Funds (General Fund, County Road, Community College and Library fund), and Special Funds (Water Fund, and Sewer Fund). They are then classified according to a continuum of capital project development from idea to completion. This serves two purposes. The first purpose is to provide better control of the individual project proposals by providing a series of milestones, each with increasingly stringent standards for planning and financial data, to track the progress of each project. Second, the system provides a more accurate perspective of the overall progress of the CIP. The project development classifications are:

- 1 *Completed Projects:* Those capital projects previously scheduled that have been completed in the preceding year.
- 2 *Authorized Projects:* Those projects which have been authorized by the County Legislature and are in varying stages of progression, ranging from bonds being authorized but not yet issued to anticipated project completion in the current year.
- 3 *Proposed Projects:* Those projects at a sufficient level of development to be scheduled in the CIP for legislative consideration. Each proposed capital project in this document has received a Level of Development rating. The rating was determined by the development phase of the project as outlined in the project application. These ratings and their descriptions are as follows:
 - **Advanced:** A project assigned an advanced rating is ready to be presented for Legislative authorization; the capital project application is complete and information is reliable.
 - **Intermediate:** A project is assigned an intermediate rating when the problems and causes have been identified, possible alternative solutions have been examined, and a plan has been selected. An intermediate rating is also assigned to projects that have established or are in the process of establishing project scope, and/or maintenance and operations estimates.
 - **Preliminary:** A project is assigned a preliminary rating when project definition is being established or an in-depth needs assessment is being conducted in order to determine any of the following: in-depth identifications, examination, selection and description or alternative solutions to the problem.

PROJECT ACTIVITY BY DEPARTMENT

Department	Completed Projects	Authorized	Proposed Projects	Fund
COUNTY CLERK (RECORDS)	0	1	0	General Fund
DEPARTMENT OF CORRECTIONS	5	0	1	General Fund
ELECTIONS BOARD	1	0	0	General Fund
EMERGENCY COMMUNICATIONS	14	6	7	General Fund
FACILITIES MANAGEMENT	13	6	7	General Fund
FINANCE DEPT	0	1	1	General Fund
HILLBROOK DETENTION HOME	1	1	0	General Fund
INFORMATION TECHNOLOGY	0	2	1	General Fund
METROPOLITAN WATER	4	0	0	Water
OFFICE OF ENVIRONMENT	0	1	1	General Fund
ONONDAGA COMMUNITY COL	32	1	4	Community College
ONONDAGA COUNTY PUBLIC LIB	3	0	2	Library
PARKS & RECREATION DEPT.	9	7	6	General Fund
SHERIFF CUSTODY	1	0	0	General Fund
SHERIFF POLICE/CIVIL	1	1	0	General Fund
TRANSPORTATION	0	1	10	County Road
TRANSPORTATION	3	0	0	General Fund
VAN DUYN EXTENDED CARE	6	0	0	Van Duyn
WATER ENVIRONMENT	24	13	13	Drain & San
Total	117	41	53	

PROPOSED CAPITAL PROJECT SUMMARY (2020-2025)

The following is a list of proposed projects and their estimated six year cost broken down by fund (\$ in 000's)

County Wide

Department	STATUS	PROJECT	2020 - 25 Total
General Fund			
DEPARTMENT OF CORRECTIONS			
		Physical Plant Improvements and Security Upgrades	1,132
		Subtotal	\$ 1,132
EMERGENCY COMMUNICATIONS			
		Auxiliary Power Systems Replacement	688
		Next Generation 911 (NG-911) Telephone System Replacement/Refresh	3,659
		Oblique Aerial Digital Imagery Refresh (2019)	300
		Public Safety Radio Tower Replacement	265
		Repave E911 Center Parking Lot	344
		Replacement of Mobile Data Communications Network (MDCN) Infrastructure	3,600
		Tower Site Shelter Rehabilitation	1,091
		Subtotal	\$ 9,947
FACILITIES MANAGEMENT			
		Carnegie Library Rehabilitation	4,101
		Community Plaza Garage	1,581
		Courthouse - HVAC Renovations	10,000
	new	DH&C Plant Upgrades (NEW)	700
		Facilities Various Capital Improvements	9,000
		LED lighting upgrade in various buildings in downtown campus	535
		Oncenter Rehabilitations	3,250
		Subtotal	\$ 29,167
FINANCE DEPT			
	new	Build a Science, Technology, Engineering, Arts and Mathematics (STEAM) High School	75,000
		Subtotal	\$ 75,000
INFORMATION TECHNOLOGY			
	new	Evidence Management System Upgrade (NEW)	630
		Subtotal	\$ 630
OFFICE OF ENVIRONMENT			
		Ash Tree Management	3,600
		Subtotal	\$ 3,600
PARKS & RECREATION DEPT.			
	new	Beaver Lake Nature Center Boardwalk Replacement (NEW)	1,835
	new	Hopkins Road Softball Park Rehabilitation (NEW)	2,000
		Lights on the Lake Storage Facility	370
		Long Branch Park Improvements	2,000
	new	Oneida Shores Park Shoreline Rehabilitation (NEW)	670
	new	Parks Various Infrastructure Rehabilitation and Improvement (NEW)	9,023
		Subtotal	\$ 15,898
		General Fund Total	\$ 135,374

Financial Summaries

County Wide

Department	STATUS	PROJECT	2020 - 25 Total
Library			
ONONDAGA COUNTY PUBLIC LIBRARY			
	new	Mobile Library Outreach	260
		Petit Branch Library addition and improvements	885
Library Total			\$ 1,145

Community College

ONONDAGA COMMUNITY COLLEGE			
		Allyn Hall Upgrades and Improvements	2,780
		Elevator Replacement and Upgrades/ Protection of the Campus E-mail and Phone Servers	646
		Infrastructure - Campus Wide	10,488
		Site Improvements	2,718
Subtotal			\$ 16,632
Community College Total			\$ 16,632

County Road

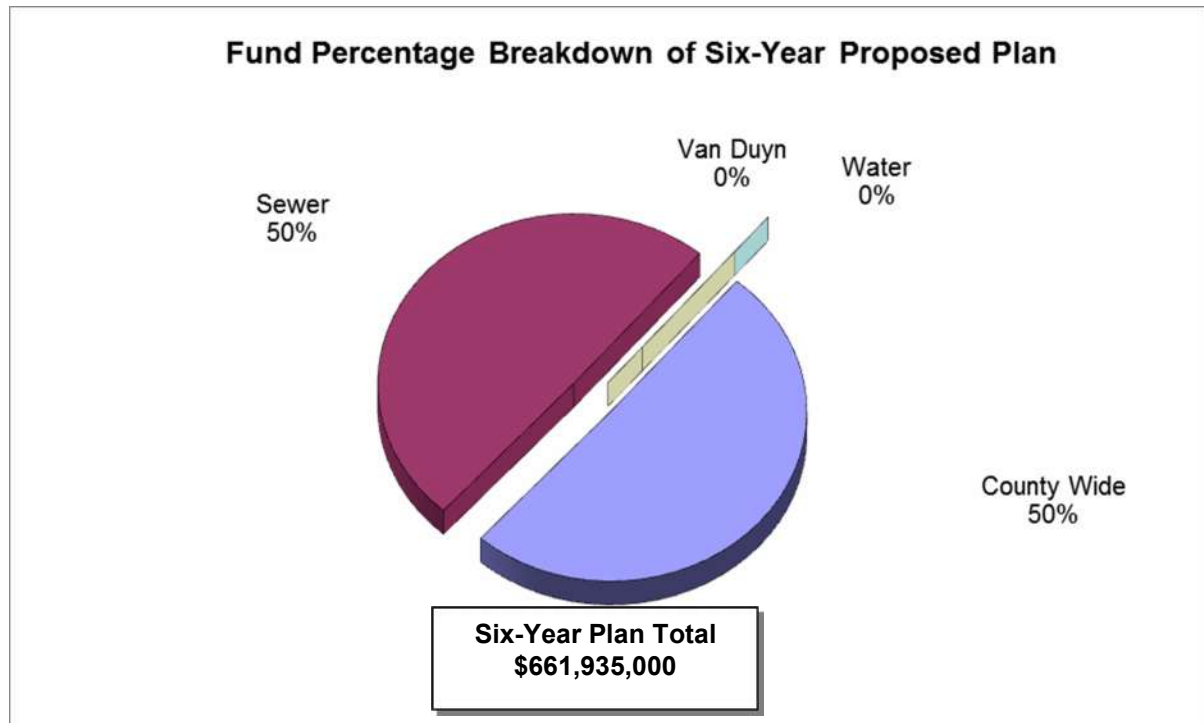
TRANSPORTATION			
		Bituminous Surface Treatment	14,958
		Bridges	7,110
		Capital Highway Construction	44,284
		Caughdenoy Road / NYS Route 31 Road Improvements	4,400
		Cold Mix Bituminous Paving	29,192
new		DOT Facilities Improvements	1,000
		Guide Rail	3,260
		Repaving Program (Hot Mix Bituminous)	70,106
		Testing, Drainage and Facilities Repair	3,060
		Traffic Systems Management	2,040
County Road Total			\$ 179,410
County Wide Total			\$ 332,561

Special Funds

Department	STATUS	PROJECT	2020 - 25 Total
Sewer			
WATER ENVIRONMENT PROTECTION			
		Baldwinsville Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improvements	39,504
		Camillus Force Main Replacement	6,500
new		Combined Sewer Overflow 029 Walton Street Abatement Project (NEW)	2,020
new		Combined Sewer Overflow 067 Abatement Project (NEW)	16,900
new		Davis Rd Pump Station and Forcemain Improvements (NEW)	5,995
		Energy Efficiency Improvements/Performance Contracting	25,250
		Harbor Brook Miscellaneous Culvert and Channel Improvements	500
		Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project	17,300
new		Metro WWTP 1978 Plant Annex Asset Renewal (NEW)	48,500
		Oak Orchard WWTP Secondary Clarifier Rehabilitation	7,618
new		Sewer Consolidation (NEW)	90,000
new		Route 481/298 Industrial Corridor Sewer Improvements (NEW)	6,000
		Wastewater Transportation System Improvements	63,287
Sewer Total			\$ 329,374
Special Funds Total			\$ 329,374
Grand Total			\$ 661,935

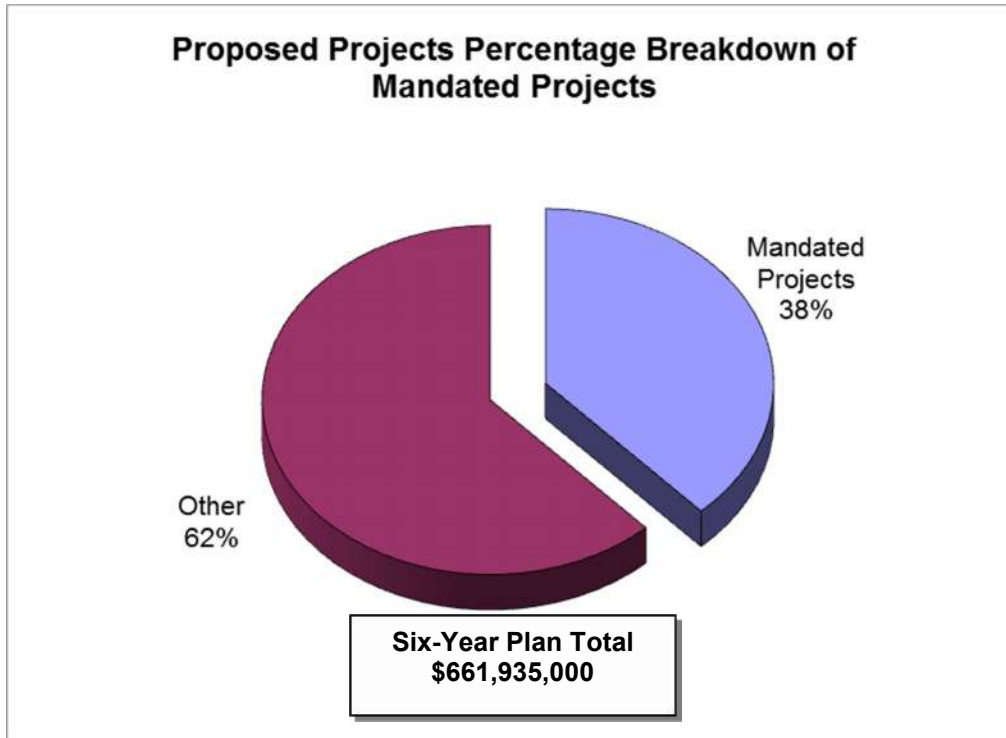
Financial Summaries

Out of the 53 projects proposed in this plan, 40 are in the Countywide Funds, and they account for 50% of the costs, as illustrated by the graph below.



MANDATES

Of the \$661,935,000 in proposed projects, 38% are the result of environmental and other mandates established by either federal or state law. These are projects that the county is compelled to do by legal requirement, and in some cases, as a result of court order. Failure to place a high priority on projects addressing mandated requirements could result in fines, license restrictions, and loss of aid. Within the confines and challenges that mandates have placed on the county's capital planning efforts, 61% of this plan's proposal focuses on non-mandated infrastructure maintenance, operational efficiency, environmental protection, community identity, and economic development in an effort to preserve existing assets and enhance growth and development opportunities in the county.



PROPOSED FUNDING SOURCES

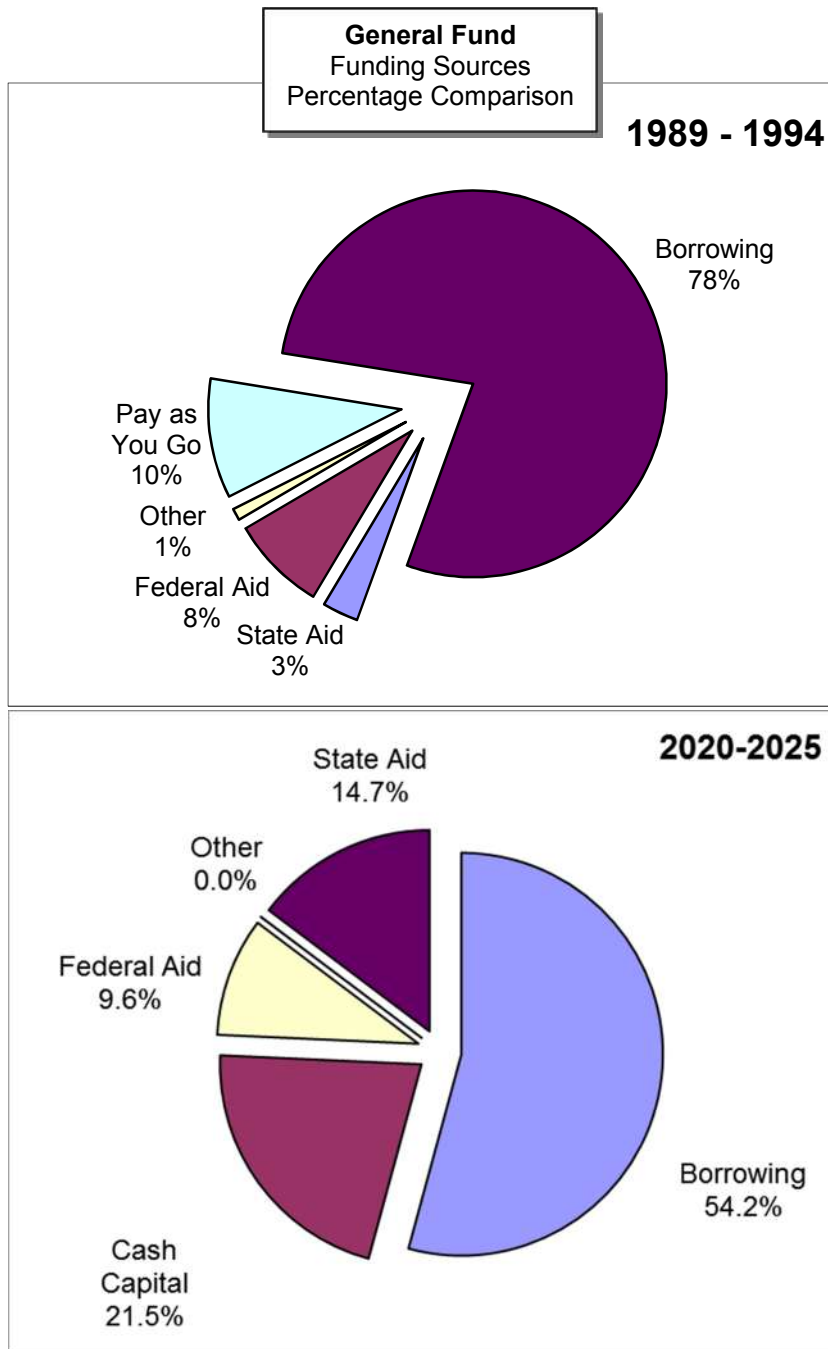
To achieve a balanced program that effectively serves the community's needs, careful attention must be given to the methods or sources of funding for capital projects. Customarily, projects are funded through the issuance of debt, cash capital, federal and state aid, and to a lesser degree other sources such as private donations, fees, etc. Projects that benefit present and future taxpayers are generally financed through the issuance of debt so as to more fairly spread the cost. Cash capital is the preferred method of financing for smaller projects, and more importantly, recurring or maintenance related projects. Federal and state aid is sought for any appropriate project, as well as alternate sources of funding such as donations and fees. To the extent that a municipality carefully plans for the strategic use of these various funding sources, taxpayer dollars will realize maximum effectiveness. The chart below shows the anticipated sources of funding for the proposed projects in this plan, by fund and for all funds combined. The following page shows the impact of the county's effort to address the issue of financing sources in the General Fund and other funds.

FUNDING SOURCES OF PROPOSED PROJECTS

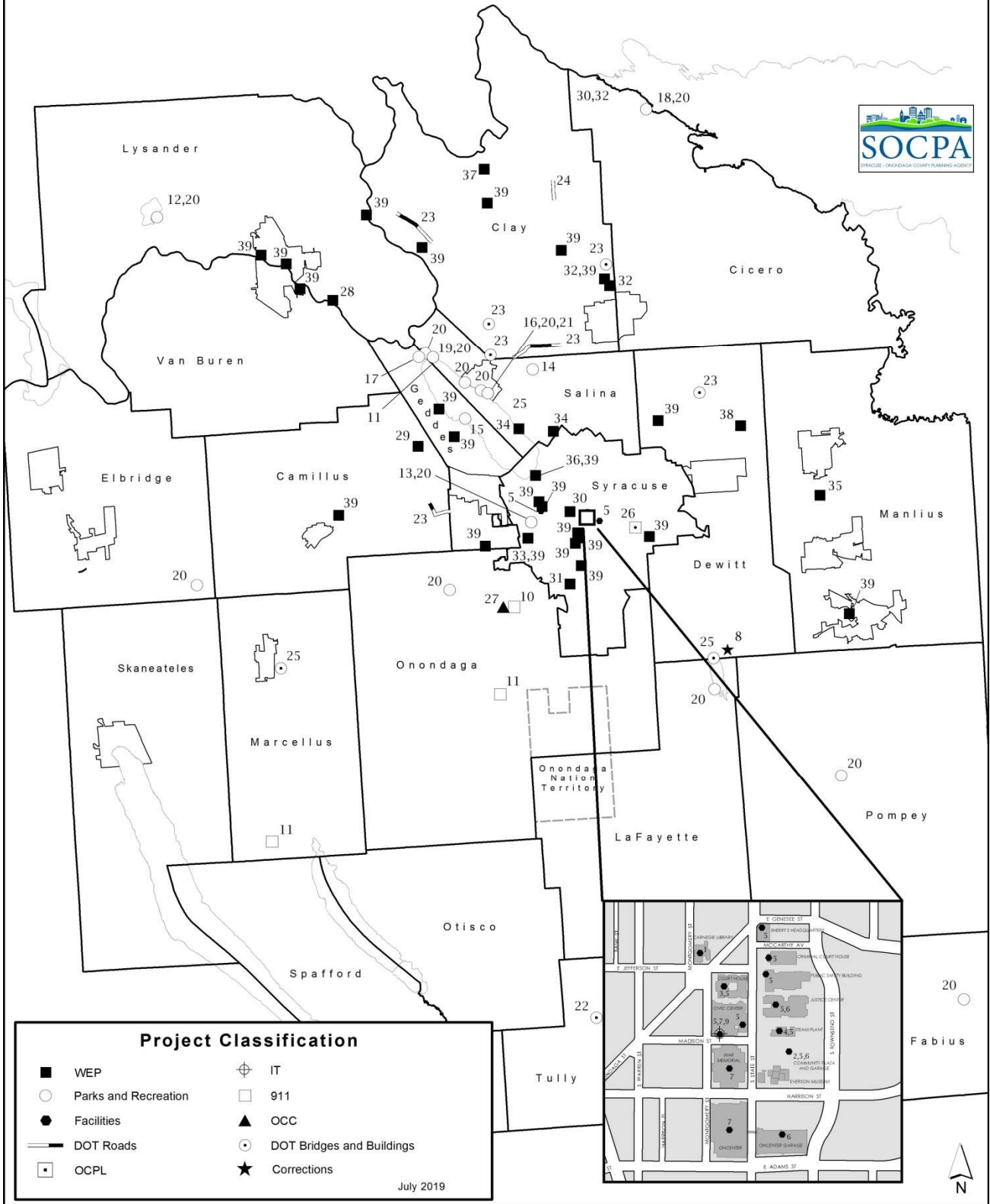
County Wide	2020	2021	2022	2023	2024	2025	6yr Total
General Fund							
Authorized Borrowing	750						750
Borrowing to be Authorized	93,361	16,659	8,317	8,976	3,100	3,100	133,513
State Aid	761	100			250		1,111
SUB TOTALS	\$94,872	\$16,759	\$8,317	\$8,976	\$3,350	\$3,100	\$135,374
County Road							
Pay as You Go	2,600	8,010	10,575	15,485	16,197	18,549	71,416
Borrowing to be Authorized	11,135	10,900	5,000	4,005	3,002	3,000	37,042
Federal Aid	4,480	3,000	1,300	16,000	3,000	4,000	31,780
State Aid	6,812	6,120	5,820	8,140	6,040	6,240	39,172
SUB TOTALS	\$25,027	\$28,030	\$22,695	\$43,630	\$28,239	\$31,789	\$179,410
Library							
Borrowing to be Authorized	745						745
State Aid	350						350
Other	50						50
SUB TOTALS	\$1,145						\$1,145
Community College							
Borrowing to be Authorized		2,749	5,567				8,316
State Aid		2,749	5,567				8,316
SUB TOTALS		\$5,498	\$11,134				\$16,632
County Wide TOTALS	\$121,044	\$50,287	\$42,146	\$52,606	\$31,589	\$34,889	\$332,561
Special Funds							
Drain & San							
Pay as You Go	6,075	8,160	8,095	6,655	6,475	8,650	44,110
Authorized Borrowing	9,520	11,847	850	105	200	200	22,722
Borrowing to be Authorized	7,930	47,443	61,142	53,007	49,020	44,000	262,542
SUB TOTALS	\$23,525	\$67,450	\$70,087	\$59,767	\$55,695	\$52,850	\$329,374
Special Funds TOTALS	\$23,525	\$67,450	\$70,087	\$59,767	\$55,695	\$52,850	\$329,374
GRAND TOTAL	\$144,357	\$114,502	\$115,680	\$112,373	\$87,284	\$87,739	\$661,935

Financial Summaries

Recognizing national trends and growing mandate requirements, the county is continuously examining its financing strategies. The goal has been to reduce debt issuance when possible, saving taxpayer dollars and maximizing other resources without compromising the commitment to preserving existing assets and stimulating growth and development. This has resulted in far fewer dollars being spent on interest costs for general fund supported projects. This is illustrated in the comparison of the two graphs below, one depicting the funding source percentages for general fund projects in the current plan, and the other depicting those sources for the 1989-1994 Capital Plan. You will note that the 1989 plan anticipated funding 78% of the General Fund proposed project costs through borrowing, while the current plan calls for 54.2% funding through borrowing.



Onondaga County 2020-2025 Capital Improvement Plan Locations



Project Classification

■ WEP	⊕ IT
○ Parks and Recreation	□ 911
● Facilities	▲ OCC
— DOT Roads	⊙ DOT Bridges and Buildings
▣ OCPL	★ Corrections

July 2019

Financial Summaries

FACILITIES MANAGEMENT

- 1. Carnegie Library Rehabilitation
- 2. Community Plaza Garage
- 3. Court House - HVAC Renovations
- 4. DH&C Plant Upgrades
- 5. Facilities Various Capital Improvements
- 6. LED Lighting Upgrades (Downtown Campus)
- 7. Oncenter Rehabilitation

DEPARTMENT OF CORRECTIONS

- 8. Physical Plant Improvements and Security Upgrades

INFORMATION TECHNOLOGY

- 9. Evidence Management System Upgrade

EMERGENCY COMMUNICATIONS (E-911)

- 10. Auxiliary Power Systems Replacement
- 10. Next Generation 911 (NG-911) Telephone System Replacement/Refresh
- 10. Repave E911 Center Parking Lot
- 10. Oblique Aerial Digital Imagery Refresh
- 10. Replacement of Mobile Data Communications Network Infrastructure
- 10. Tower Site Shelter Rehabilitation
- 11. Public Safety Radio Tower Replacement

PARKS AND RECREATION

- 12. Beaver Lake Nature Center Boardwalk Replacement
- 13. Build a African Savannah Exhibit
- 14. Hopkins Road Softball Park Rehabilitation
- 15. Lakeview Point Park Infrastructure
- 16. Lights on the Lake Storage Facility
- 17. Long Branch Park Improvements
- 18. Oneida Shores Park Shoreline Rehabilitation
- 19. Park Improvements/Willow Bay
- 20. Parks Various Infrastructure Rehabilitation and Improvement
- 21. Salt Museum Rehabilitation

TRANSPORTATION

- 22. Bridges
- 23. Capital Highway Construction
- 24. Caughdenoy Road/NYS Route 31 Road Improvements
- 25. DOT Facilities Improvements

ONONDAGA COUNTY PUBLIC LIBRARY

- 26. Petit Branch Library Additions and Improvements

ONONDAGA COMMUNITY COLLEGE

- 27. Alyn Hall Upgrades and Improvements
- 27. Elevator Replacement and Upgrades/Protection of the Campus E-mail and Phone Servers
- 27. Infrastructure - Campus Wide
- 27. Site Improvements

WATER ENVIRONMENT PROTECTION

- 28. Baldwinsville-Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improvements
- 29. Camillus Force Main Replacement
- 30. Combined Sewer Overflow 029 Walton Street Abatement Project
- 31. Combined Sewer Overflow 067 Abatement Project
- 32. Davis Road Pump Station and Force Main Improvements
- 33. Harbor Brook Miscellaneous Culvert and Channel Improvements
- 34. Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project
- 35. Meadowbrook - Limestone Phase I Sanitary Sewer System Consolidation
- 36. Metro WWTP 1978 Plant Annex asset Renewal
- 37. Oak Orchard WWTP Secondary Clarifier Rehabilitation
- 38. Wastewater Pump Station Industrial Sources (Town of DeWitt)
- 39. Wastewater Transportation System Improvements

CAPITAL PROJECTS

Section 3

COUNTYWIDE FUNDS

GENERAL

COMMUNITY COLLEGE

COUNTY ROADS

SPECIAL FUNDS

WATER DISTRICT

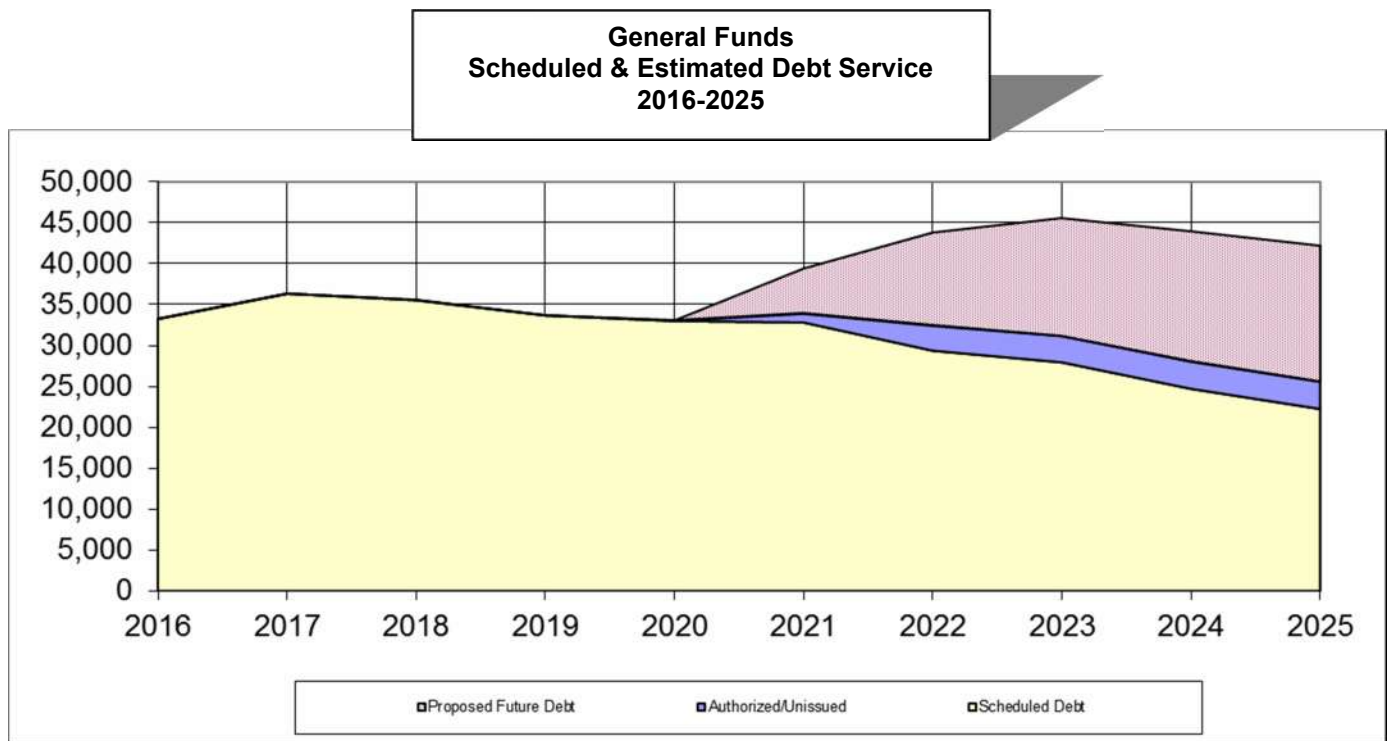
SEWER DISTRICT

COUNTYWIDE CAPITAL PROJECTS

Capital projects are organized into two sections: Countywide projects that include the General Funds, the Library Fund, and the Community College Fund; and Special Funds, which are the Van Duyn Fund, the Water Fund and the Sewer Fund. All projects require the recommendation of the County Executive and the authorization of the County Legislature. The Countywide fund projects address most of the basic operating services such as public safety, finance, data processing, parks and recreation, highway, and other direct operating services. Debt service for borrowing associated with these capital projects is an operating budget expense supported primarily by the property tax levy and sales tax revenues. As discussed in previous sections, the county has placed a high priority on maximizing the use of taxpayer dollars through judicious use of debt issuance.

Unlike the Countywide projects, projects initiated through the Special Funds departments are supported by revenues raised within those individual funds. They do not rely on financial support from the general property tax levy.

Below is a graph depicting scheduled debt service supported by the General Fund as well as estimated debt service for projects that have been authorized by the County Legislature but debt has not yet been issued, and estimated debt service for the proposed projects that follow in this section. Borrowing for the Community College and the County Library is included in General Fund borrowing; Special funds borrowing is not included.



A debt service summary associated with the graph above can be found on the next page, followed by summary information of the currently authorized projects. Following the authorized project information is information on proposed future projects to be supported by the general funds, beginning with a summary of projects and estimated six year expenses, then a breakdown of the proposed source of funds for these projects and the estimated debt service for these projects that will require part or whole funding with borrowed funds. The estimated debt service for these projects is shown in the graph above. The same information is presented for the special funds.

Countywide Funds

**General Funds
Debt Service Summary**

Payments in (\$000's)

	2015	2016	2017	2018	2019	2020	2021	2022
Principal & Interest <u>Scheduled Debt</u>	32,399	33,251	36,334	35,528	33,676	32,985	32,810	29,363
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	0	0	0	0	0	0	1,064	3,039
<i>Proposed Future Debt</i>	0	0	0	0	0	0	5,526	11,226
Total	32,399	33,251	36,334	35,528	33,676	32,985	39,400	43,628

	2023	2024	2025	2026	2027	2028	2029	2030
Principal & Interest <u>Scheduled Debt</u>	27,934	24,704	22,244	19,801	17,257	14,890	13,807	12,952
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	3,206	3,311	3,311	2,727	2,566	2,446	2,446	2,446
<i>Proposed Future Debt</i>	13,885	15,424	16,048	16,328	16,041	14,837	14,345	13,859
Total	45,025	43,439	41,603	38,856	35,864	32,173	30,598	29,257

	2031	2032	2033	2034	2035	2036	2037	2038
Principal & Interest <u>Scheduled Debt</u>	11,214	10,569	9,317	8,346	7,025	6,156	5,449	5,100
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	2,347	2,347	2,347	2,347	2,347	584	565	565
<i>Proposed Future Debt</i>	13,377	12,408	12,072	11,179	10,866	10,548	9,135	7,706
Total	26,938	25,324	23,736	21,872	20,238	17,288	15,149	13,371

	2039	2040	2041	2042	2043	2044	2045	TOTAL
Principal & Interest <u>Scheduled Debt</u>	3,605	2,620	2,601	2,578	2,554	2,520	0	328,401
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	565	565	0	0	0	0	0	41,141
<i>Proposed Future Debt</i>	6,814	6,046	5,684	1,192	704	534	315	246,099
Total	10,984	9,231	8,285	3,770	3,258	3,054	315	615,641

AUTHORIZED PROJECTS

Currently there are several Countywide Capital Projects that have been authorized by the County Legislature and are in varying stages of development, ranging from funds being authorized but not yet issued to projects anticipated to be completed in 2019. A brief summary of most of them follows.

COUNTY CLERK (RECORDS DEPT)

Replacement of Legacy County Clerk Document Management System

Project On-going

In June 7, 2016 the County Legislature authorized \$600,000 to replace the legacy document management system for County Clerk. The application was written in-house and the documents are stored in a 10 year old obsolete content management system. The content management system is nearly out of space and the County Clerk Office is also in need of new functionalities to reduce manual processing and also generate income. The main feature desired is the means to allow for request and pay for copies (via credit card) of property documents online (on the internet). Such copies requested are mortgages, deeds, abstracts, judgments, power of attorney, etc. The funding for this project will be used for application licensing, customization,

EMERGENCY COMMUNICATIONS

Computer Aided Dispatch (CAD) System Hardware Refresh

Project On-going

In July 2019 the County Legislature authorized \$903,000 which will be used to refresh computer aided dispatch (CAD) software and the replacement of CAD.

The CAD hardware and software were last refreshed in 2013. The hardware (CAD servers and workstations in the Main 911 Center and the Backup Operations Center) will be six years old in 2019. In addition, CAD servers are currently running on outdated SQL server software that will need to be updated to stay consistent with any security patches necessary to protect mission critical CAD systems from being vulnerable to a cyber-attack.

We intend to start and finish this project in 2019. This will require an on-site presence from the CAD vendor's engineering staff to ensure smooth implementation which is necessary due to the size and complexity of our system which serves 94 police, fire and EMS agencies.

CAD workstations and servers run 24 hours a day, 365 days a year, continuously processing information related to the safety of citizens and first responders, and must be highly reliable. After six years this equipment is no longer covered by service warranty, which increases costs for repair and down time. All operating systems (OS) and hardware (e.g., memory) must be capable of running software upgrades provided as a part of the software maintenance agreement. All this will be possible as a result of this project.

Computer Aided Dispatch (CAD) System Refresh

Project Completed

This project was authorized by legislative resolution #509-11 in October 2011. The project funded a refresh of Onondaga County's current Computer Aided Dispatch (CAD) system, which was installed in 2007. These computer workstations and servers were over 5 years old in 2012 and beyond their recommended lifecycle. This entails the scheduled refresh of computer hardware and the implementation of necessary software updates. This is critical to the reliability of dispatch operations. In April 2012 the contract with Intergraph, the CAD System vendor was executed. The system has been installed. This project was completed on-time

E911 Center Console Furniture Replacement

Project On-going

On June 4, 2013, by resolution # 91, the County Legislature authorized borrowing of \$648,840 to replace thirty-six call taking, dispatch, and training room console furniture workstations that were installed in 2003 and are not compliant with the most recent computer workstation standards. This replacement took place simultaneously with the installation of the radio system replacement to minimize operational interruption and was completed in August 2014. We are still working on some minor updates on carpeting.

E911 Center Facility Rehabilitation

Project On-going

This project consisted in engaging an architectural firm to review current operational, administrative, technical support, storage needs, and physical and mechanical conditions of the current E911 Center, and to make recommendations and provide cost estimates for replacements and repairs, improvements, and adjustments required to accommodate advancements in technology. The goal of this project was to study the current E911 Center, the former Hillbrook/Fire Control/OCSO South Station building and the campus area (parking lot, fences, etc.).

The County has engaged C&S Engineers to conduct the study. C&S has surveyed the properties and met with E911 staff on several occasions between December 2016 and April 2017. An initial draft of the study has been written and is currently being reviewed by E911 and C&S Engineering.

E911 Main Center HVAC System Replacement

Project On-going

In Fall 2014 we received legislative authorization for \$350,000 to fund the engineering design and to develop a request for proposals (RFP), which was issued in June 2015 and subsequently awarded through the County procurement process. The engineering design was completed in May 2016.

In May 2016 the County Legislature authorized \$1,788,852 for the construction phase of this project.

The replacement of the heat pumps will be accomplished by the successful bidder in close cooperation with engineers, County Facilities, and E911 Center staff to ensure that public safety communications operations and systems are not disrupted. Call taking and dispatch areas will moved to the Civic Center back-up site, as necessary, to permit work to be done on heat pumps, ducts and ventilation in operations floor area.

Bids were awarded in mid-2016 and Airside Technology was selected as the HVAC contractor. Knapp Electric was selected as the electrical contractor. 1st Point, LLC, was selected as the project manager.

Radio Tower & Property Rehabilitation

Project On-going

This project will fund the necessary refurbishing of selected 911 Center remote tower sites. This will include replacement of security fencing, upgrade of the IP remote video/audio monitoring system, installation of proximity detection, replacing roofs, siding, and doors as well as replacing the HVAC system at the Pompey legacy site to increase energy efficiency. We will also add quick generator connect “Jones Plugs” at all sites to allow emergency hook up of a portable generator in the event of a catastrophic generator failure.

Progress has been on-going. Fence repairs have been made and Jones plugs have been installed at all tower sites except E911. IP security cameras have been replaced but work is being done to accommodate the additional bandwidth of the new system. Work is pending on tower lighting and other incidentals.

Replace E911 Radio Consoles

Project On-going

On April 4, 2013, by resolution # 049, the County Legislature accepted \$4,959,000 in NY State grant funds to replace twenty-three Motorola Gold Elite radio consoles including integrated radio recorders at the E911 Center, and twelve Motorola Gold Elite radio consoles including integrated radio recorders at the E911 back-up site. Consoles and associated back room equipment are computer based and were originally installed in 2003 (Main Center) and 2005 (back-up site), and are not fully compatible with future functionality improvements. The consoles have been replaced but there are still several on-going adjustments to the system which are being addressed with the remaining balance of the project.

Replacement of Mobile Data Communications Network (MDCN)

Project Proposed

Legislative authorization for \$245,000 has been approved to determine the most efficient, cost-effective, and reliable method of providing data connectivity to emergency responders and implement that solution. The E911 Center’s Mobile Data Communications Network (MDCN) Infrastructure reached its predicted end-of-life at the end of 2017. This will take into account the advances in wireless broadband communications technology and the cost of acquisition and maintenance of proprietary communications infrastructure. This included both data communications hardware as well as encryption software that meet federal CJIS standards for data security and integrity, infrastructure, and mobile data radio equipment.

FACILITIES MANAGEMENT

Center for Forensic Sciences Building Rehab./Renovations

Project On-going

On June 7, 2016 the County Legislature authorized borrowing \$335,000 to finance this project which will provide for various improvements in the Center for Forensic Sciences. The scope of these improvements includes:

1. Installation of additional proximity card readers, electric locks and door position contacts on doors for six areas. We have received quotes and the work was completed in 2018.
2. Retrofitting showers and eyewash stations for tempered water through the installation of tempering valves. We have received quotes and the work will be completed in 2019.
3. Architectural study and design related to the reorganization of forensic disciplines and staff in some areas within the Center, which are in need of renovations. We have hired the needed Architectural and Design company.
4. Replacement of the old remote entry intercom system. This work is already done.
5. Replacement of old morgue cooler door mechanisms. This work is already done.
6. Replacement of Medical Examiner overhead garage doors. This work is already done.
7. Sidewalk and Parking Lot Repair. We have received quotes and the work will be completed in 2019.
8. Replacement of water heaters. We have received quotes and the work will be completed in 2019.

Carpet and tile replacement in Center for Forensic Sciences and morgue floor resurfacing, which have previously been part of this project are already completed with 2016 funds, reducing the amount we need to borrow from \$390,000 to \$335,000.

Civic Center Office Maintenance, Repairs and Improvements

Project On-going

This is an ongoing project. Since October 2011 the County Legislature has authorized 5 bond resolutions for a total of \$5,217,000. In addition, we appropriated \$400,000 from Fund Balance in 2012. This money was designated for the following scopes:

Masonry repointing and repairs to the street level brick veneer.

Renovations of floors 7, 8, 13, and 15 will include new office environments, painting, lighting carpeting, and HVAC modifications. The aforementioned floors are the original floor configurations since the building was opened. This will increase operational efficiency for departments located in those spaces and improve air flow, as well as allow more natural lighting into these spaces.

In 2012 we were successful in renovating the west side of the Civic Center 15 with a strategy of open floor planning. We were able to create the swing space needed for other renovations as well as the temporary relocations for the departments displaced by the KOB abatement and demolition project. We also renovated a portion of 15 East and now a program of Mental Health occupies this area. We also renovated the space vacated by the Syracuse Symphony and moved Facilities offices to this space. We renovated the former CNY Arts offices and moved the Syracuse Opera into the more efficient consolidated space.

In 2016 completed the renovations of Bureau of Vital Statistics and Health Department, Floor 9 east.

In June 7, 2016 the County Legislature authorized \$801,000 which funds the construction of space renovations on floors 7 and 8 as well as HVAC upgrades, ADA upgrades, and security provisions in floors 7 and 8 that started in 2016 and continued in 2017.

We have completed the office design and construction for floors 6 and 7.

The funds allocated in 2018 will be used to continue and finish the above projects.

We plan on finishing by summer of 2019.

Civic Center Re-roof

Project On-going

On June 7, 2016 the County Legislature authorized \$1,383,000 to re-roof the Civic Center.

The built-up IRMA roofs on the Civic Center Office Tower and theaters are, substantially, the original roofs installed in 1975, making them forty years old and beyond their expected life. Lately, we have experienced acceleration in leak conditions above the IT department. This project will require replacement of all insulation, wood blocking, walk path pavers, stone ballast coping covers, brick veneer repointing, restoration of the integrity of the davit bases and associated flashings. An improvement in the thermal insulation value is required by code, which will offset some of the capital cost with ongoing added energy savings.

Due to emergencies experienced during 2014 we used \$500,000 cash in hand to replace the theater roofs.

The rest of the scope of this project was completed in 2018.

Community Plaza and Walks Renovations

Project On-going

The Community Plaza, Bernthal Way and portions of the walks around the Everson Museum are repaired. A project to restore the deteriorated expansion joints is underway in design development. This will mitigate the leaks through the plaza into the museum spaces. Surrounding concrete sections will be replaced as well. Many of the walks in the proximity of the expansion joints, which are settled and/or heaved and severely cracked and uneven, will be addressed with this project, making the Community Plaza and Everson Museum areas more accessible to the public. The remaining balance of funds will be spent in 2019.

Edward Kochian County Office Building Rehab./Renovation

Project On-going

This project entails the continued renovation of the Edward Kochian County Office Building, giving it an extended useful life of forty-five to fifty years with improved fire safety, reduced maintenance, and energy cost savings. As a result of the asbestos abatement we will continue upgrading finishes, mechanical systems, fire protection, lighting, furniture and improve energy management. Three of the eight floors (3, 7, and 8), as well as the basement, were completed in the past 10 years. We now have also renovated 6, 5, and 1st floors. Our rehabilitations include ADA compliance and security enhancements.

The asbestos abatement in the Edward Kochian County Office Building (County Office Building) was completed in May 2013. As result of this abatement, the basement, first, second, fourth, fifth, and sixth floors as well as seventh and eighth floor lobbies, and the mechanical penthouse were made ready for renovation. We replaced air handlers, pumps, exhaust fans, drives, piping, chiller and controls. We provided specific climate control for new data closets. We added fire protection to the renovated floors.

We completed the renovations of the first, fifth and sixth floors by fall of 2014 and this work included upgrades to the bathrooms on these floors. This allowed the Probation Department to move to the 1st and 5th floors before the end of 2014.

The additional funds authorized in 2015 will be used to continue to carry this project to completion, which means renovations of 4th floor, as well as the elevator lobbies on floors 2, 7 and 8, including bathrooms. The rehabilitation of the County Office Building will include HVAC systems and controlling upgrades, fire alarm, fire protection, managed electrical service, water use reduction in plumbing, safety and security provisions, audio and visual technologies, lighting enhancement with programmable technology, as well as ergonomics and ADA improvements. We expect energy use reduction and savings, department staff performance improvements, and increased useful life and security of our asset upon completion of this project. The 4th floor has been completed. The next and last floor we expect to renovate is the 2nd floor. The design is completed and the construction was completed in 2019.

Remodeling Social Services Reception

Project On-going

In 12/04/2012, by Resolution #217, we received authorization of \$378,000, which was spent for the study and design for construction.

In 12/05/2017, by Resolution #192, we received authorization of \$3,000,000 which will be used for construction.

This project will provide for efficiency improvements in the Department of Social Services by renovating the Division of Temporary Assistance Intake - with attention to congestion reduction, staff and public safety, as well as security - to allow for streamlined and effective delivery of services.

The rehabilitation will include improved service environments, enhanced video surveillance, duress alarms, security stations, new public address systems, reconfigured client approaches, and progressive stations. The signage will be graphic lighted displays and call up. There will be interpretive language systems. In addition we will enhance access control on doors and barriers, and the new furnishings will be ergonomic, appropriately aligned with the program flow. The building systems will be rehabilitated to include improved, efficient and balanced HVAC, sustainable lighting solutions, and maintenance friendly BMS interfacing. ADA enhancements will include mechanical door operators, selective seating arrangements, comfortable approach, and service stations. We expect that a more comfortable yet durable environment will improve the services to the clients.

The asbestos abatement project in the Edward Kochian County Office Building was completed in May of 2013. Now we will continue with the design and a phased construction of this project.

FINANCE DEPT

Tax Collection and Delinquency Software

Project On-going

This project was authorized by the County Legislature in December 2014 (Resolution # 212). The goal of this project is to standardize and modernize its delinquent tax collection software, as well as the tax collection software systems utilized by the nineteen towns, fifteen villages, and twenty-five school districts for which it guarantees taxes. There are currently several different vendors providing varying levels of services and support. At the end of each collection period a report of paid and

unpaid taxes are turned over to the County and are uploaded/entered into the delinquency program so that we can begin to accept payments and enforce collection. These reports are often formatted differently, or in some instances, hand written. In addition, this process relies heavily on the experience, expertise, and technical ability of each individual Tax Collector/Receiver to send accurate and timely information. Standardizing the collection systems will ease this burden and allow the reconciliation process to be automated, while providing the County with a consolidated database throughout the collection period. We are now in the process of selecting a vendor and the project implementation will start this summer and finish in 18 months.

HILLBROOK DETENTION HOME

Hillbrook Detention Facility Improvements (NEW)

Project On-going

The County Legislature has authorized \$394,500 with resolutions #67, 06/2017 (\$253,500) and #186, 12/2017 (\$140,000) for Improvements and replacements of various elements of security and safety throughout the existing facility. The scope of this project will include several elements and in early 2018 we started working on the following:

1. Replacement of existing surveillance system hardware and software.
2. Replacing existing outdated control panel/door release system with a guard tour system.

The next phase of the project will address the following scope elements:

1. Replacing the two-way radio system to include an emergency duress system.
2. Install security glass/doors in four unit lounge offices and replace flooring.
3. Replacing seven gymnasium doors.
4. Adding pole mounted IP cameras to the parking lot, access drive, and fence line.

All the items mentioned above are outdated and at the end of their life. It is hard and costly to maintain them and keep them functioning appropriately.

INFORMATION TECHNOLOGY

Enterprise Resource Planning (ERP)

Project On-going

The new system will integrate the payroll, financial and other systems into one, providing the ability to enter time, track leave balances, enter benefits information, view and process payroll and budget information, in one countywide system. This system will be flexible and robust enough to provide shared services. The end users will be provided with real time data and the ability to inquire into specific transactional information. The various numbers of platforms supported by IT and the in-house applications written around the current systems, which cost time and money to create and maintain, will be reduced.

In June 2010 the County Legislature authorized \$9,887,416 (BR-127) which was amended in May 2014 by issuing another \$988,741.

Under the initial investment of \$9,887,416, the County implemented PeopleSoft Financials and Hyperion modules which now support Budgets, Purchasing and Payables for all departments within the County. The amended amount of \$988,741 is currently being used to implement PeopleSoft Human Capital Management which will support all processes associated with HR, Payroll and Benefits. This component is currently in parallel testing phase.

There are 3 projects we need to support to enhance our enterprise systems for PeopleSoft financials. All three projects need professional services and expertise to implement. The total funding needed for three projects is \$775,000. The county Legislature authorized this amount on February 2, 2016.

1. Supplier Contract Management, Strategic Sourcing and Supplier Portal – these modules allow for us to streamline contracts, purchasing, payments and overall processing with vendors. For professional services and hardware we are asking \$350,000. Base implementation for this component is complete and we are finalizing legal terms, conditions and supplemental documents.
2. Asset Management – allows us to automate many manual processes and integration with Financial Management and Supply Chain. This module will also improve accuracy associated with tracking assets and assist in meeting regulatory requirements. For professional services to perform the configuration, customization, training and testing: \$125,000. All identified assets from participating departments have been brought into PeopleSoft and base functionality is in place.
3. Upgrade PeopleSoft Financial Environment (FSCM) to the current release and take advantage of new feature sets. Oracle will start to discontinue support of version 9.1 in 2017. We estimate that the upgrade will be at least a 9 month project and will require assistance from experienced PeopleSoft consultants. The upgrade not only brings to a current level of technology and positions us for longer term support, but it gives us a number of new features that benefit the County. The new features include:

Fluid User Interface – provides multiple applications and view from central tiles/pages
Pivot Grids – to support enhanced queries, reporting and charts
Update Manager – simplifies PeopleSoft upgrades (going forward) saving time and money on future upgrades
Usability with tablets and other mobile devices
Forms & Approval Builder – support elimination of paper form processes
For professional services need to perform the configuration, customization, training and testing: \$300,000

Technology Refresh

Project On-going

This project consists of a technology refresh for Voice, Network, Internet and Data Backup / Restore Services. The current technology stack that supports Voice, Network, Internet and Data Backup / Restore Services is at the end of its support life. The support for the above components will discontinue by 2020.

In April 2, 2019 the County Legislature approved the bond resolution #052 authorizing \$1,581,000 for this project.

This project will be completed in 2019 and under this project we intend to upgrade/replace the following:

VOIP Call Manager (phone system), Unity (voice mail system), & Contact Center (call center) software license upgrade
Ongov Web Site Redesign

Tivoli Server Manager (data backup services) Server Replacement

2 Cisco Nexus 7000 Core Network Switches

Replacement of network equipment – firewalls, routers, network switches, wireless access points, software modules and licenses

OFFICE OF ENVIRONMENT

Beach Development at Onondaga Lake Park

Project On-going

The goal of this project is to conduct a feasibility study regarding a beach at Onondaga Lake Park. This study is supported by a state grant, which the County Legislature accepted in Spring 2018. At this point it appears that water quality levels could support the study of a potential beach along the shores of Onondaga Lake. When appropriate, the Parks Department will assess the feasibility for alternative types of water based recreation at Onondaga Lake Park. The study is fully funded by a New York State Department of State Local Waterfront Revitalization (LWRP) grant. The grant calls on \$110,000 in local match which the County Office of Environment, Parks Department and Water Environment Protection are providing in form of in-kind services. At this point the contracted architects have produced renderings and market analysis which are accessible to the public for feedback. The final feasibility study will be presented by the end of 2019.

ONONDAGA COMMUNITY COLLEGE

West Quad Renovation: Ferrante/Coulter Project

Project On-going

On June 2, 2015 the County Legislature authorized this project in the amount of \$8,800,000. The total project was approved at \$17,600,000, 50% funded from Onondaga County and 50% from the State.

This project consists of major repairs and redesign for the campus quad area as well as two (2) of the College's main academic buildings, Ferrante and Coulter. All of these fundamental areas of the College's physical plant are in need of repairs as all, or parts, have not been renovated for years.

Exterior quad work consisting of major repairs and redesign to eliminate excessive "hardscape", empty plaza, deteriorating retaining walls, pavements and steps is complete. This area is now a major hub of activity on campus and is far more accessible for those traversing on campus. The Coulter Hall renovations are substantially complete. The College library, a critical component of the learning landscape on campus, occupies a good portion of Coulter Hall. This structure had not been renovated since its construction in 1969. The renovation to Coulter Hall transformed a dark, tired building into a new "reinvented" library coupled with a number of student support services (Veterans, EOP, Honors, Career and Transfer, Office of Accessibility Resources, etc.) and much needed student gathering space. These services are centered around a mission of improving retention and completion for our full "community of learners" embracing all students from those needing to build skills to who excel. Work in this building included abatement, code compliance, roof replacement, elevator refurbishment, major HVAC system updates, sprinkler system work, new flooring, lighting, bathroom fixtures, doors, hardware replacements and a new entranceway that clearly defines and separates the library function from student gathering/study spaces.

Ferrante Hall, the home of Onondaga's Nursing and other key science programs is one of the final components of this project.

This project includes major renovations to primarily the first floor including life safety upgrades (sprinklers, elevator), abatement, elevator refurbishments, classroom upgrades and entranceway repairs. In addition, a new innovative teaching and learning space was developed focusing on the disciplines housed within Ferrante Hall. The Spring 2019 semester was the first semester the innovative classroom in Ferrante was scheduled for classes. Other classrooms and components of Ferrante Hall are now being evaluated for further renovations to close out the project.

The overall project is anticipated to be complete by August 2020.

PARKS & RECREATION DEPT.

Build an Animal Health Care Center

Project On-going

The Rosamond Gifford Zoo presently has an animal medical clinic which does not meet the requirements specified by the Association of Zoos & Aquariums (AZA). Therefore the existing clinic will be decommissioned. This space will be converted to program space for elementary school education and the housing for the outreach animal collection. New adequate facilities will be designed and constructed to meet the required standards, creating at the same time a more interactive and educational experience for the visitors from the community. Also, this facility will enable the zoo staff to take care of much larger animals and more of them at the same time. This will be done in an environment that is medically and surgically compliant with the standards.

On December 5, 2017 the Legislature approved BR-190 authorizing \$500,000 to fund the engineering design of the first phase of this project.

Engineering and design began in early 2018.

On December 18, 2018 the Legislature approved BR-172 authorizing \$7,200,000 to fund the construction of the Animal Health Center.

Construction will begin in 2019.

The Friends of Rosamond Gifford Zoo will begin a capital campaign to help defray the expenses of this

Carpenters Brook Fish Hatchery Pond Repair

Project On-going

Carpenters Brook Fish Hatchery has 30 ponds, 18 of which are in need of repair. Parks has researched other hatcheries in the North East to learn what is currently being done in this industry to improve fish production. Based on this research it was decided to apply a 3/16" fiberglass lining to the affected tanks.

On December 19, 2017 the Legislature approved BR-231 authorizing \$100,000 to begin surface preparation of eighteen (18) 25' circular ponds.

On December 18, 2018 the Legislature approved BR-170 authorizing \$1,697,000 of which \$302,000 was authorized to complete the lining of the tanks as planned. Bids were issued early 2019 and the contract for the work is in process. Work will start in late spring 2019 after fish stocking is completed and the ponds can be emptied. Work completion is scheduled for fall 2019 before new fish are to be placed in the ponds.

Energy efficiency and reliability upgrade at the zoo (NEW)

Project On-going

The resolution no. 231 of December 19, 2017 authorized \$328,000 for this project. In addition NYSERDA has approved incentive of \$182,502. Preliminary Engineering as required for NYSERDA Incentive Application was completed and submitted to NYSERDA. Detailed engineering as required for installation and bid was completed. The bids received exceeded the budgeted amount and no installation contract was awarded. Evaluation is underway to determine if the designed units can provide needed back-up emergency power to the new Zoo Animal Health Center. If so funds budgeted for Animal Health Center emergency power may be used to supplement the funds in this project to allow installation to move forward. If not, this project may be cancelled.

This project entails installing a Combined Heat and Power unit that will provide electricity and heat more efficiently and less costly than from utility sources. In addition the unit will provide a source of emergency electrical power in the event of a utility power outage. This emergency power is necessary to maintain the habitat for exotic and expensive species housed at the zoo. NYSERDA funding is currently available to offset approximately 35% of the project cost. The estimated simple payback for the project is less than 12 years. The savings over the 30 year useful life of the project are estimated to be over \$350,000.

Loop the Lake Trail

Project On-going

In December 5, 2017 the County Legislature authorized \$500,000 in pay-as-you-go funds and \$1,000,000 in debt by resolutions #183 and #185 (respectively) for a total of \$1,500,000 to construct a mile of multi-use trails on the southeast shore of Onondaga Lake known as Murphy's Island. This is a trail segment which will eventually be part of the completed Loop the Lake trail system. When completed, the Loop the Lake Trail will be a continuous trail around Onondaga Lake that connects to the City Creek walk, the Erie Canal Trail and serves as a vital part of the Empire State Trail. The multiuse trail will serve as a major recreational attraction, as well as provide a transportation alternative to historical, recreational, and other destinations on and near the shores of Onondaga Lake.

The New York State Department of Transportation Planning approved preliminary plans in late 1992. Over time, Onondaga County has completed trail extension segments beginning with the West Shore Trail Extension in 2014 and will be completing the whole west shore trail system by 2019 including a bridge over the CSX railroad.

Since 1998, several studies have been conducted to assess public interest and project feasibility of the Loop the Lake trail. These studies are a SMTC sponsored study of the Onondaga Lake Parkway, The Lake Front Development Corporation Waterfront Plan and most recently a study by FOCUS Greater Syracuse in 2012. The studies supported the feasibility of the Loop the Lake Trail and indicated strong public support as well.

The Murphy's Island project segment will be a continuation of the Loop the Lake Trail and will traverse property Onondaga County Parks purchased in 1980 from the Estate of Donald Murphy. The trail segment begins at the Onondaga Creek walk and continues along the southeast shore of Onondaga Lake. Eventually, this trail segment will be used for the future connection to the Onondaga Lake East Shore trail and the completion of the Loop the Lake trail system.

At this point the County has procured the services for design of the trail and to address the concerns related to the sites use as a habitat. We expect to have a completed final design for the trail segment in 2019 and construction to follow.

Onondaga Lake Park Shoreline Stabilization

Project On-going

On December 20, 2016 the County Legislature approved BR-250 authorizing \$756,000 to fund this project. The shoreline around Onondaga Lake Park has seen some significant erosion and is in need of stabilization to prevent further deterioration. This is a phased project that will address several hundred feet of shoreline each year over the next several years. Phase 1 was completed in the Fall of 2017. Preparation of the design of stabilization features and application for permit from DEC and Army Corps of Engineers for subsequent phases are in process as of April 2019.

Park Roofs

Project Completed

On February 2, 2016 the County Legislature approved \$261,000 as a part of BR-009 to repair/replace various park facility roofs.

These funds were used to replace the following roofs:

Highland Forest Overlook Shelter

Pratts Falls Tractor Bays

Administrative Office

In BR-251 on December 20, 2016, the County Legislature authorized \$569,000 to replace the roofs at various parks which when combined with BR-009 resulted in a total authorization of \$830,000 for park roofs repair/replacement.

With these authorized funds roofs at the following parks were replaced in 2018.

Beaver Lake Nature Center

Highland Valley Camp Annex

Highland Skyline Lodge

Jamesville Overlook Restroom

Onondaga Lake Park Stable

Willow Bay Restroom

OLP Marina Comfort Station

Rosamond Gifford Zoo Boardwalk Replacement

Project On-going

The funding of \$2,200,000 was approved in August of 2016, BR-132 (\$1,005,000) and in December of 2017, BR-230 (\$1,195,000).

Contracts for the new boardwalk construction were awarded in February 2018. Due to contractor schedule, conflicts field work did not begin until Fall, 2018. Bad winter weather further impacted scheduled completion. The project was completed in July 2019.

Veteran's Cemetery Expansion

Project On-going

As a part of BR-009, on February 2, 2016 the County Legislature authorized \$480,000 to fund this project. This project is the expansion of the Veterans Memorial Cemetery. A master plan was completed in late 2015 and we have started the implementation of this plan with a phase one by clearing land for an expanded roadway to access future burial sites. These additional burial sites will accommodate the needs of the cemetery for several years. Phase two will include the rehabilitation of the chapel building, enlarging the parking area to better accommodate the larger site, with the possibility of a new maintenance building if funds permit.

SHERIFF POLICE/CIVIL

Sheriff's New Headquarters Facility

Project On-going

The purpose of this project is to consolidate all of the Sheriff's Office facilities including the K-9 Unit and the Police Substations. Initially, we intend to hire an engineering/consulting firm to help us with identifying a location and configuration of this new facility as well as the cost of construction. The funds we have available will serve to acquire these services. Once we get the study completed, we will request the design and construction funds. The funds that are needed to complete the needs assessment study are available from previous authorizations of \$369,000 bonds which were authorized by bond resolution No. 185 dated November 9, 2012.

TRANSPORTATION

Rehabilitation of North Area and Camillus Highway Maintenance

Project On-going

The Department of Transportation's North Area and Camillus highway maintenance facilities were both built in the early 1960s. Neither site was designed or intended to function as a highway operations/maintenance facility. The North Area shop was originally a United Parcel Service distribution center. The Camillus facility was built to serve as a small private airport. The layout and condition of these buildings and property result in significant operating inefficiencies and costs, leading to a critical need for major structural renovations to both facilities. In addition, building systems in both facilities need complete rehabilitation (HVAC, electrical, plumbing).

Funding for replacement of the Camillus facility was approved on 12/20/2016. Design was completed in 2017 with construction beginning at the end of winter operations that year. The new facility was completed in spring of 2018. Funding for renovation of the North Area Maintenance facility was approved on 12/5/2017. Upon completion of design, construction is expected to begin in late 2020.

PROPOSED CAPITAL PROJECT SUMMARY

County Wide

Department	STATUS	PROJECT	2020 - 25 Total
General Fund			
DEPARTMENT OF CORRECTIONS			
		Physical Plant Improvements and Security Upgrades	1,132
		Subtotal	\$ 1,132
EMERGENCY COMMUNICATIONS			
		Auxiliary Power Systems Replacement	688
		Next Generation 911 (NG-911) Telephone System Replacement/Refresh	3,659
		Oblique Aerial Digital Imagery Refresh (2019)	300
		Public Safety Radio Tower Replacement	265
		Repave E911 Center Parking Lot	344
		Replacement of Mobile Data Communications Network (MDCN) Infrastructure	3,600
		Tower Site Shelter Rehabilitation	1,091
		Subtotal	\$ 9,947
FACILITIES MANAGEMENT			
		Carnegie Library Rehabilitation	4,101
		Community Plaza Garage	1,581
		Courthouse - HVAC Renovations	10,000
	new	DH&C Plant Upgrades (NEW)	700
		Facilities Various Capital Improvements	9,000
		LED lighting upgrade in various buildings in downtown campus	535
		Oncenter Rehabilitations	3,250
		Subtotal	\$ 29,167
FINANCE DEPT			
	new	Build a Science, Technology, Engineering, Arts and Mathematics (STEAM) High School	75,000
		Subtotal	\$ 75,000
INFORMATION TECHNOLOGY			
	new	Evidence Management System Upgrade (NEW)	630
		Subtotal	\$ 630
OFFICE OF ENVIRONMENT			
		Ash Tree Management	3,600
		Subtotal	\$ 3,600
PARKS & RECREATION DEPT.			
	new	Beaver Lake Nature Center Boardwalk Replacement (NEW)	1,835
	new	Hopkins Road Softball Park Rehabilitation (NEW)	2,000
		Lights on the Lake Storage Facility	370
		Long Branch Park Improvements	2,000
	new	Oneida Shores Park Shoreline Rehabilitation (NEW)	670
	new	Parks Various Infrastructure Rehabilitation and Improvement (NEW)	9,023
		Subtotal	\$ 15,898
		General Fund Total	\$ 135,374

Countywide Funds

County Wide

Department	STATUS	PROJECT	2020 - 25 Total
Library			
ONONDAGA COUNTY PUBLIC LIBRARY			
	new	Mobile Library Outreach	260
		Petit Branch Library addition and improvements	885

Library Total			\$ 1,145
Community College			
ONONDAGA COMMUNITY COLLEGE			
		Allyn Hall Upgrades and Improvements	2,780
		Elevator Replacement and Upgrades/ Protection of the Campus E-mail and Phone Servers	646
		Infrastructure - Campus Wide	10,488
		Site Improvements	2,718

Subtotal			\$ 16,632
Community College Total			\$ 16,632
County Road			
TRANSPORTATION			
		Bituminous Surface Treatment	14,958
		Bridges	7,110
		Capital Highway Construction	44,284
		Caughdenoy Road / NYS Route 31 Road Improvements	4,400
		Cold Mix Bituminous Paving	29,192
new		DOT Facilities Improvements	1,000
		Guide Rail	3,260
		Repaving Program (Hot Mix Bituminous)	70,106
		Testing, Drainage and Facilities Repair	3,060
		Traffic Systems Management	2,040

County Road Total			\$ 179,410
 County Wide Total			 \$ 332,561

Countywide Funds

The remainder of this section provides information on proposed future projects. Below is the proposed source of funding and the estimated associated debt service schedule followed by the descriptive information for each proposed project.

County Wide

SOURCE OF FUNDS

	2020	2021	2022	2023	2024	2025	6yr Total
Pay as You Go	2,600	8,010	10,575	15,485	16,197	18,549	71,416
Authorized Borrowing	750						750
Borrowing to be Authorized	105,241	30,308	18,884	12,981	6,102	6,100	179,616
Federal Aid	4,480	3,000	1,300	16,000	3,000	4,000	31,780
State Aid	7,923	8,969	11,387	8,140	6,290	6,240	48,949
Other	50						50
TOTALS	\$121,044	\$50,287	\$42,146	\$52,606	\$31,589	\$34,889	\$332,561

Estimated Debt Service

Payment Schedule (\$ in 000's)

County Wide

General Fund

FACILITIES MANAGEMENT

	2020	2021	2022	2023	2024	2025
Carnegie Library Rehabilitation	0	106	262	315	309	302
Courthouse - HVAC Renovations	0	53	207	460	811	993
Facilities Various Capital Improvements	0	79	206	331	453	573
Oncenter Rehabilitations	0	0	26	69	110	151
Community Plaza Garage	0	0	83	134	132	129
DH&C Plant Upgrades (NEW)	0	37	60	58	57	56
LED lighting upgrade in various buildings in downtown	0	23	60	58	57	55
Department Total	0	298	904	1,425	1,929	2,259

DEPARTMENT OF CORRECTIONS

	2020	2021	2022	2023	2024	2025
Physical Plant Improvements and Security Upgrades	0	23	64	98	112	110
Department Total	0	23	64	98	112	110

INFORMATION TECHNOLOGY

	2020	2021	2022	2023	2024	2025
Evidence Management System Upgrade (NEW)	0	33	85	83	81	78
Department Total	0	33	85	83	81	78

EMERGENCY COMMUNICATIONS

	2020	2021	2022	2023	2024	2025
Next Generation 911 (NG-911) Telephone System	0	11	231	858	833	807
Replacement of Mobile Data Communications Network	0	189	486	473	461	448
Public Safety Radio Tower Replacement	0	14	23	22	22	21
Oblique Aerial Digital Imagery Refresh (2019)	0	16	71	68	66	64
Auxiliary Power Systems Replacement	0	36	70	68	67	65
Tower Site Shelter Rehabilitation	0	0	0	0	57	93
Repave E911 Center Parking Lot	0	18	35	34	33	33
Department Total	0	284	916	1,523	1,539	1,531

OFFICE OF ENVIRONMENT

	2020	2021	2022	2023	2024	2025
Ash Tree Management	0	32	173	309	442	570
Department Total	0	32	173	309	442	570

Countywide Funds

FINANCE DEPT

	2020	2021	2022	2023	2024	2025
Build a Science, Technology, Engineering, Arts and	0	3,938	6,375	6,244	6,113	5,981
Department Total	0	3,938	6,375	6,244	6,113	5,981

PARKS & RECREATION DEPT.

	2020	2021	2022	2023	2024	2025
Beaver Lake Nature Center Boardwalk Replacement	0	96	156	153	150	146
Lights on the Lake Storage Facility	0	0	19	38	37	36
Parks Various Infrastructure Rehabilitation and	0	118	339	562	737	811
Long Branch Park Improvements	0	53	154	201	196	192
Hopkins Road Softball Park Rehabilitation (NEW)	0	28	131	202	197	193
Department Total	0	295	799	1,156	1,317	1,378

General Fund Total **0** **4,903** **9,316** **10,838** **11,533** **11,907**

County Road

TRANSPORTATION

	2020	2021	2022	2023	2024	2025
Testing, Drainage and Facilities Repair	0	0	0	0	0	0
Repaving Program (Hot Mix Bituminous)	0	264	628	819	903	911
Cold Mix Bituminous Paving	0	66	224	392	473	507
Bituminous Surface Treatment	0	69	134	131	128	125
Traffic Systems Management	0	17	51	84	99	115
Guide Rail	0	0	0	0	0	0
Bridges	0	47	125	202	280	358
DOT Facilities Improvements	0	26	77	101	98	96
Capital Highway Construction	0	95	220	271	419	575
Caughdenoy Road / NYS Route 31 Road Improvements	0	0	231	447	437	427
Department Total	0	584	1,690	2,447	2,837	3,114

Library

ONONDAGA COUNTY PUBLIC LIBRARY

	2020	2021	2022	2023	2024	2025
Petit Branch Library addition and improvements	0	25	41	40	40	39
Mobile Library Outreach	0	14	35	34	33	32
Department Total	0	39	76	74	73	71

Community College

ONONDAGA COMMUNITY COLLEGE

	2020	2021	2022	2023	2024	2025
Elevator Replacement and Upgrades/ Protection of the	0	0	0	17	44	42
Site Improvements	0	0	71	116	113	111
Infrastructure - Campus Wide	0	0	0	275	708	690
Allyn Hall Upgrades and Improvements	0	0	73	118	116	113
Department Total	0	0	144	526	981	956

County Wide Total **0** **5,526** **11,226** **13,885** **15,424** **16,048**

Countywide Funds

DEPARTMENT: DEPARTMENT OF CORRECTIONS

Project: Physical Plant Improvements and Security Upgrades

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Federal/State Mandate

Level of Development: Advanced

Project Description:

This project provides for improvement to original structures, building equipment and enhances security around the facility. Building repairs include repair/replacement of kitchen flooring, housing unit entries, programs corridor ceiling replacement, air conditioning in Housing Units 1, 2, 3, 4, and the replacement of inmate housing unit entry and cell doors. The kitchen dishwasher and the food service delivery carts need to be replaced and a large laundry washing machine needs to be purchased. Security enhancement includes the installation of lighting on facility roadways and an alternative entry and egress from the facility. Grounds and exterior improvements include resurfacing of roadways and parking lots of the facility. The completion of these projects will maintain the safety and security of the facility and the compliance of health and safety standards.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	442	368	322				1,132	1,132
Authorized Borrowing	693							0	693
TOTALS	693	442	368	322				1,132	1,825

Project Detail and Status:

This project provides for needed improvements to and replacement of aging original structures and unserviceable building equipment. It also provides for safety and security enhancements. The items below are listed in priority order.

On December 19, 2017 the County Legislature authorized \$325,000 (Resolution # 224) to accomplish the following scope elements (1 to 5) of this project for which we have received quotes and the work has started in 2018 start and is continuing:

- 1) Kitchen Floor Restoration & Restoration of Housing Unit Entries. This is necessary to maintain compliance with health codes and for basic safety and sanitary reasons in the kitchen and housing unit entry ways. This subproject has been completed in 2018 for \$60,000.
- 2) Food Service Delivery Carts – Existing carts are becoming unserviceable as doors are not closing properly and motors are not working. Parts are no longer available for these models. The carts are needed to maintain food standards of proper refrigeration and heating temperatures of the food. This subproject has been completed in 2018 for \$115,000.
- 3) Laundry washing machine – Current 100-lb washer is over 50 years old and beyond repair. Current contracted vendor is not efficient as there have been numerous problems with inmate laundry returning wet which leads to the added expense of us having to use an officer and our equipment to dry. This subproject has been completed in 2018 for \$27,000.
- 4) Kitchen Dishwasher – Current washer continues to breakdown causing high repair expenses being incurred. Also, when machine is down, it creates major disruptions in service and the operations of the facility in addition to our using Styrofoam which is an added supply and trash removal expense. This subproject has been completed in 2018 for \$83,000.
- 5) Ceiling Replacement in the Corridor Wing of facility – There is approx. 4,800 sq. ft. of current ceiling that was damaged by water leaking from previous old roofing. There are gaps in ceilings which lead to security issues of inmates hiding contraband. The ceiling needs to be replaced due to the extensive water damage, which may lead to mold and health concerns if left untreated and to potential of ceiling failure. The quote we have received for this work

Countywide Funds

is \$32,000, which is what we had estimated. The work is expected start in fall 2019 and finish by the end of 2019.

On March 19, 2019 the County Legislature authorized \$368,000 (Resolution # 34) to accomplish the following scope elements (6 and part of 7) of this project.

6) New Entry/Egress - The new entrance is needed to relieve the back up at the perimeter post and ease congestion for staff entry and exit. The entrance will require gates and proximity readers and cards. Our cost estimate for this subproject is \$115,000. At this point we have engaged a vendor to build the new entry/egress and the work started in the end of June 2019.

7) Air Conditioning in Housing 4 – This unit has no air conditioning system. As a result the heat & moisture builds up and ruins metal fixtures, causes peeling paint, buildup of floor humidity and mold, which presents health hazard for Staff and inmates in extremely hot weather. In addition the humidity causes metal rust and fatigue of the floors as the units have multiple floor levels. In order to correct this situation we are adding five split system AC units. At this point the bid request is sent out to purchasing and we expect to start and finish this work in 2019. According to our estimates this subproject will cost about \$250,000.

In fall 2019 we will seek legislative authorization for \$442,000 to accomplish the following:

8) Repairs to Roadways - This is an issue as poor road conditions lead to damaged vehicles. We cannot use the forklift on various areas due to poor road conditions. We have received estimates for the repairs of roadways. Our intention is to start this work during 2019. (\$182,000)

9) Air Conditioning in Housing 3 – This unit has no air conditioning systems and the problems that occur in unit 4 are present here as well. (\$260,000)

In fall 2020 we will seek legislative authorization for \$388,000 to accomplish the following:

10) Lighting on the grounds - Is needed as it will improve security camera operations and the overall safety and security of the facility. (\$48,000)

11) Replacement of Housing Unit Doors & Cell Door replacement – Existing doors are deteriorating, rusted, welds are broken and cracked, with gaps at bottom which impedes security and creates a problem with climate control issues. Many steel stiffened cell doors also need replacement due to similar issues and the expanding of the metal in the doors have made some difficult to open/close. (\$50,000)

12) Air Conditioning in Housing 2 – This unit has no air conditioning systems and the problems that occur in unit 4 are present here as well. (\$270,000)

In fall 2021 we will seek legislative authorization for \$322,000 to accomplish the following:

13) Replacement of hot water on demand in the housing units 8 and 9. The new system will be more energy efficient than using boilers which can lead to cost savings as the boilers are expensive to replace. Consistently keeping water hot when not in use is wasteful of county tax dollars. Overnight, hot water is not used and this results in a waste of money (\$42,000)

14) Air Conditioning in Housing 1 – This unit has no air conditioning systems and the problems that occur in unit 4 are present here as well. (\$280,000)

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Auxiliary Power Systems Replacement

Purpose: Public/Employee Safety/Health

Level of Development: Advanced

Project Description:

Replace end of life auxiliary power systems at the E911 Main Center. This includes the building generator, auxiliary generator control panel, transfer switch, and the uninterruptable power supply.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	688						688	688
TOTALS	0	688						688	688

Project Detail and Status:

This project involves the replacement of the 125 kVA uninterruptable power supply (UPS) system and updating and installing a new primary 500 KW generator at the main E911 Center.

The UPS at the main E911 was manufactured in 2003 with a useful service life of 15-20 years. The CAT 500 KW generator was installed when the building was built and is 25 years old. Replacement of the E911 Center UPS will take place in 2020 in concert with the replacement of the emergency transfer switch and the addition of a 500 KW generator. The old generator will be retained as an auxiliary until parts are no longer available in the event of the failure of the new generator.

E911 intends to seek legislative authorization for this project in Fall 2019.

Countywide Funds

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Next Generation 911 (NG-911) Telephone System Replacement/Refresh

Purpose: Public/Employee Safety/Health, Federal/State Mandate

Level of Development: Intermediate

Project Description:

This project will involve the replacement of Next Generation 911 (NG-911) call taking solution that was originally installed in 2016 at both the main 911 Center and the Backup Operations Center (BOC). Equipment was originally leased under contract (5 years) with Verizon and will need to be replaced and maintained through a private vendor in 2021.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	212	3,447					3,659	3,659
TOTALS	0	212	3,447					3,659	3,659

Project Detail and Status:

The Airbus DS Vesta call taking solution that was installed in 2016 will need to be replaced/refreshed in 2021 as system hardware (i.e., computer workstations and servers) will be at the end of its useful service life based on 24/7 critical public safety service. At least 43 workstations (27 at the Main E911 Center and 16 at the Backup Operations Center) will need to be replaced along with other peripheral hardware, software and interfaces as necessary. Considerable labor will be expended to ensure continuity of public safety operations. Installation will need to be coordinated based on call volume activity and cannot occur at the main Center between June and August.

The current Vesta call taking solution has been provided through a lease with Verizon. Since Verizon is phasing out of the business of providing and maintaining 911 customer premise equipment (CPE), it will be necessary to consider other purchase options that may include migrating from the Vesta system that has been in use at E911 for many years. Consultant services will be necessary to assist the County in developing an RFP for equipment, services, installation and maintenance, evaluating proposals, and in implementation. In addition, if there are significant differences in the CPE acquired, the budgeting of overtime for the training of approximately 140 employees who call take will be necessary.

E911 intends to seek legislative authorization for engineering and bid specification work in Fall 2019 and for the call taking system and installation work in September 2020.

Countywide Funds

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Oblique Aerial Digital Imagery Refresh (2019)

Purpose: Public/Employee Safety/Health, Community/Economic Development, Other

Level of Development: Advanced

Project Description:

Refresh oblique aerial digital imagery that was taken during a May 2014 flyover of Onondaga County. Aerial imagery is used by the Department of Emergency Communications to assist in locating emergencies and is also used frequently by the Syracuse-Onondaga County Planning Agency (SOCPA), other county departments, towns, villages and the City of Syracuse.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	300						300	300
TOTALS	0	300						300	300

Project Detail and Status:

Project will involve a flyover of Onondaga County and bordering areas by an airplane equipped with high resolution digital camera. Flyovers will be done during the time of year (e.g., late April, early May) when there are no leaves on the trees that might obstruct camera views. Digital imagery will be stored on County servers and made available on all E911 call taking and dispatch workstations and at SOCPA. Other County departments, the City of Syracuse, towns and villages will have access to the imagery.

The most recent oblique aerial imagery was secured in May 2014. Refreshes must be done periodically (i.e., four years) to remain accurate. Based on experience, aerial imagery that ages becomes increasingly unreliable. The cost of aerial "flyovers" must be balanced against the loss in value to the users as the imagery ages.

E911 intends to seek legislative authorization for this project in Fall 2019.

Countywide Funds

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Public Safety Radio Tower Replacement

Purpose: Public/Employee Safety/Health

Level of Development: Advanced

Project Description:

Replace two critical public safety radio communications towers that will have reached the end of their useful life cycle and do not meet current standards for critical public safety standards.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	265						265	265
Authorized Borrowing	339							0	339
TOTALS	339	265						265	604

Project Detail and Status:

In the summer of 2018, the existing 325' Rose Hill (ROS) radio tower, located at 2724 Rose Hill Road in the Town of Marcellus, was replaced with a new 325' SSV type radio tower meeting TIA-222 public safety communications tower standards. Once the new tower is constructed adjacent to the old tower, and antennas and feed line are installed, the old radio tower will be decommissioned and removed from the site. The Rose Hill tower was constructed in the early 1960's.

In the summer of 2019, the existing 200' self-supporting Makyes (MAK) radio tower, located at 4050 Makyes Road in the Town of Onondaga, will be replaced with a new 165' self-supporting SSV type radio tower meeting TIA-222 public safety communications tower standards. Once the new tower is constructed adjacent to the old tower, and antennas and feed line are installed, the old radio tower will be decommissioned and removed from the site. The Makyes tower was inherited by Onondaga County and the age or origin is unknown. It is not of public safety communications grade.

In December 2017 the County Legislature authorized \$339,000 (Resolution 2017-225) to replace the Rose Hill Tower.

E911 intends to seek legislative authorization for the Makyes tower replacement project in the Fall of 2019.

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Repave E911 Center Parking Lot

Purpose: Public/Employee Safety/Health, Maintain Existing Investment

Level of Development: Advanced

Project Description:

Repave and restripe the Onondaga County Department of Emergency Communications parking lot at 3911 Central Avenue, Syracuse, New York 13215. Project includes milling, 4" of new pavement, and striping of 43,082 square feet of existing parking lot and the addition of 1,027 square feet of new area pavement. Parking lot will be 28 years old in 2019 and is used 24/7 by E911 employees and visitors. Parking lot is in a state of deterioration; some areas no longer have any sub-base.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	344						344	344
TOTALS	0	344						344	344

Project Detail and Status:

Repave approximately 43,082 square feet of the E911 Center parking lot at 3911 Central Avenue, Syracuse, and add approximately 1,027 square feet of new parking area. Stripe parking lot when complete. Project is necessary due to age (28 years) and deterioration of the existing parking lot and due to current lot being undersized. We plan to seek Legislative authorization in Fall 2019.

E911 will use the county's pavement vendor to execute the work during the summer of 2020. The county's fence vendor will be used to replace the in-ground security gate sensors following completion of the paving.

We intend to seek legislative authorization for this project in Fall 2019.

Countywide Funds

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Replacement of Mobile Data Communications Network (MDCN) Infrastructure

Purpose: Public/Employee Safety/Health

Level of Development: Advanced

Project Description:

This project will replace the 800 MHz mobile data communications infrastructure, including fixed base station equipment at radio tower sites and mobile data radio modems in public safety vehicles. The end of life for the current Mobile Data Communications Network (MCDN) was December of 2017.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	3,600						3,600	3,600
Authorized Borrowing	245							0	245
TOTALS	245	3,600						3,600	3,845

Project Detail and Status:

The MDCN infrastructure has reached its predicted end-of-life at the end of 2017. Taking into account the advances in wireless broadband communications technology and the cost of acquisition and maintenance of proprietary communications infrastructure, the project will begin by determining the most efficient, cost effective and reliable method of providing data connectivity to emergency responders and implement that solution. This included both data communications hardware as well as encryption software that meet federal CJIS standards for data security and integrity, infrastructure, and mobile data radio equipment. In February 2016 E911 received legislative authorization for \$245,000 for a consultant to advise the County on the most efficient and effective option for replacing the MDCN and for engineering and design. An RFP was issued in May 2016 and Winbourne Consulting was selected as the vendor in October 2016. A kick-off meeting was held in December 2016. The consultant team met with stakeholders in January 2017 and the Phase I project report (Review of Current System/Needs) was completed in April 2017. Work on the next Phase II (System Recommendations) started in May and was completed in late August 2017.

E911 intends to seek legislative authorization for construction of this project in Fall 2019.

Countywide Funds

DEPARTMENT: EMERGENCY COMMUNICATIONS

Project: Tower Site Shelter Rehabilitation

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Federal/State Mandate

Level of Development: Preliminary

Project Description:

Rehabilitate or replace equipment at various E911 radio tower site shelters that was installed in 2006 and will be at the end of the useful lifecycle. Equipment to be rehabilitated or replaced includes shelter doors/door hardware, HVAC equipment and controllers, DC power plants and batteries, power generators, fire/intrusion/temperature alarm sensor and controllers, and FCC/FAA tower painting and lighting.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0				1,091			1,091	1,091
TOTALS	0				1,091			1,091	1,091

Project Detail and Status:

E911 radio tower sites are critical infrastructure housing Department of Emergency Communications public safety land mobile radio and microwave systems that currently support more than 8,500 public safety and public service radios for 150 agencies operated within Onondaga County. This equipment must be maintained in a secure, dry, clean, and temperature controlled environment. Tower sites are often located on remote hill top locations and must be target hardened and continue to operate in the event of adverse conditions and/or utility failure. Some E911 radio towers require FCC/FAA mandated tower paint (aviation orange/white) that must be maintained within FCC/FAA specifications.

The 12'x20' CSI concrete shelters installed at most E911 tower sites were installed between 2006 and 2008. They must be maintained to ensure the reliability of critical public safety communications systems. HVAC systems and controllers, (48 volt DC battery power plants, alarm systems) will be at or near the end of their useful lifecycles in 2023 and should be replaced or overhauled to prevent a catastrophic failure. Other elements (e.g., generators) need to be refurbished to ensure continued reliability.

Legislative authorization will be sought in Fall 2022.

Countywide Funds

DEPARTMENT: FACILITIES MANAGEMENT

Project: Carnegie Library Rehabilitation

Purpose: Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development, Addition Capacity, Other

Level of Development: Advanced

Project Description:

The Carnegie Library Building (circa 1912), is a registered Historical treasure that has been vacant since the Syracuse City School District ceased operating it as a special program location and returned it to Onondaga County. The building underwent a renovation 25 years ago, in 1994. The County intends to rehabilitate the building by performing renovations that will prepare the building for department occupation and services.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	2,015	1,736					3,751	3,751
State Aid	0	350						350	350
TOTALS	0	2,365	1,736					4,101	4,101

Project Detail and Status:

OCFM will design and manage this project from concepts that have been developed over the last years. We will undertake a facelift to the finishes, keeping in kind with the historical character of the building. We will deliver open floor office environments for strategic departments we would relocate into this property. We will need to expand on the HVAC system, the fire protection system, introduce a wireless network, and enhance security.

The plan will be designed in-house, saving money and time, and maintaining concept continuity. Structural modifications will not be needed. We intend to start construction in early 2020 and finish in 2021. Therefore, we would like to request the authorization for construction funds in Fall 2019.

DEPARTMENT: FACILITIES MANAGEMENT

Project: Community Plaza Garage

Purpose: Public/Employee Safety/Health, Maintain Existing Investment

Level of Development: Intermediate

Project Description:

The floor of the Community Plaza parking garage has continued to delaminate as a result of chloride contamination of the steel reinforcing bars in the upper level of the slab. The floor of the garage is, in fact, the foundation for the entire structure, including the plaza above. This project is intended to offer a long-term solution to prolong the life of the garage. The sump covers and trench drains are deteriorated as well and in desperate need of replacement.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Authorized Borrowing	250							0	250
Borrowing to be Authorized	0		1,581					1,581	1,581
TOTALS	250		1,581					1,581	1,831

Project Detail and Status:

The garage and plaza were built in 1967 in support of the governmental plaza and the Everson Museum. The garage accommodates approximately 130 vehicles and the loading dock functions for the museum. It is linked by a tunnel system to the District Heating and Cooling Plant, War Memorial, Court House and the Public Safety Building. The plaza above is a critical plaza park in this area of downtown that hosts numerous civic and cultural events throughout the year.

An earlier engineering study (done in about 2004) recommended overwhelmingly invasive construction efforts that included sophisticated cathodic protection systems. At this time we have a more economical and effective solution than the earlier study.

In 2012 we asked and received legislative approval of \$250,000 to fund the engineering design for this project. This engineering design was completed by the end of 2013. According to this design we will strategically remove the top layer of the deteriorated floor, replace deteriorated reinforcing bars, replace the removed concrete layer and treat the surface with a protective coating. This new solution, recommended by the 2013 design, is bringing the cost down from \$2.85 million to \$1.15 million, which is a reduction of \$1.7 million. The cost of \$1.15 million estimated in 2013 is now escalated to reflect the 2021 cost of \$1.58 million. If we use the same escalation factor on the initial estimate of \$2.85 million this figure would be \$3.75 million in 2021 money. In this case the savings are \$2.3 million.

We intend to seek legislative approval for construction funds in Fall 2020.

Countywide Funds

DEPARTMENT: FACILITIES MANAGEMENT

Project: Courthouse - HVAC Renovations

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Federal/State Mandate

Level of Development: Advanced

Budget Impact: (\$160,000)

Project Description:

This project is designed to address the aging, 50+ year old HVAC systems in this important 106 year old landmark building. The goal of this project is to extend and improve the mechanical life of the building's infrastructure without the need to displace the critical functions that take place during the renovation process.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	1,000	2,000	3,000	4,000			10,000	10,000
Authorized Borrowing	400							0	400
TOTALS	400	1,000	2,000	3,000	4,000			10,000	10,400

Project Detail and Status:

The County has completed major spatial and functional changes at the Courthouse in response to the NYS Court Facilities Act. Approximately 40% of the building was renovated with the focus on spatial changes, however, those changes did not address the building's infrastructure needs. Much of the HVAC, electrical switchgear, and electrical distribution systems are in excess of fifty years old. The air handlers and perimeter coil induction units throughout the building are in need of replacement. The pumps and environmental controls are obsolete and also need to be replaced. A comprehensive engineering study of the building's HVAC systems has been completed and will be instrumental in assisting the County to create a plan for the systematic replacement of the HVAC systems without temporarily displacing the functions within the Courthouse.

On June 7, 2016 the County Legislature approved \$400,000 to fund the engineering design for this project. We plan to seek legislative approval for construction funds in Fall 2019.

DEPARTMENT: FACILITIES MANAGEMENT

Project: DH&C Plant Upgrades (NEW)

Purpose: Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Intermediate

Project Description:

This project will address a variety of replacements, repairs, upgrades and improvements in the downtown steam plant. These capital improvements will increase efficiencies, reduce operating cost, maintain and extend the life of the existing assets and increase the level of safety. We intend to engage the necessary engineering services for this project.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	700						700	700
TOTALS	0	700						700	700

Project Detail and Status:

The scope elements of this project are the following:

1. Boiler control replacements: These controls are over 10 years old and it is hard to find replacement parts for them when they malfunction, which happens frequently. In addition the control system is proprietary and the only service provider is in West Virginia. Every time we need their service it takes weeks to receive it and it is expensive. We intend to replace these controls with modern ones that will provide an improved service and will be much easier and less expensive to be serviced and maintained.

2. Cooling tower drain pan repair/replacements: Most of the drain pans are over 15 years old and they are corroded and leaking which means they are not performing their function. This causes excessive water and chemical use as well as efficiency lost. We intend to engage specialized services in order to repair or replace these parts so that they can last as long as the chillers will.

3. Chiller support equipment repair and maintenance: Our chillers have electrical control panels which regulate the work load of the chillers. These control panels have coolers that maintain the required temperature within them. In the last 10 years these coolers presented a variety of problems which lead to overheating control panels causing the shutdown of the chillers when we need them the most. We intend to replace the control panel coolers with higher capacity and more modern ones which avoid the problems we have been facing.

4. Conversion from power generation to utility grid for the chillers: Our steam plant has six chillers out of which four are connected to the power grid and two are connected to generators. These generators are now decommissioned and this has put the two respective chillers out of service. We can bring these chillers back to service by connecting them to the power grid, which is what we intend to do. By doing so we will have the very much needed chilling capacity.

5. Other miscellaneous controls upgrades and replacements: In the steam plant we have several standalone computers that monitor and control various HVAC equipment in the downtown campus. We intend to replace them with a central server with the latest software and replace the outdated equipment that the server controls.

In Fall 2019 we intend to seek legislative authorization for \$700,000 for this project.

Countywide Funds

DEPARTMENT: FACILITIES MANAGEMENT

Project: Facilities Various Capital Improvements

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Addition Capacity

Level of Development: Advanced

Project Description:

This project will generate improvements in structural integrity, mechanical systems, energy efficiency systems, life/safety issues, office environments, building exteriors, infrastructure, ADA improvements, and security and fire alarm systems of buildings and grounds in various facilities, as well as providing for the preservation of County assets.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	1,500	1,500	1,500	1,500	1,500	1,500	9,000	9,000
Pay as You Go	380							0	380
Authorized Borrowing	7,905							0	7,905
TOTALS	8,285	1,500	1,500	1,500	1,500	1,500	1,500	9,000	17,285

Project Detail and Status:

This is an ongoing project.

In October 2011 the County Legislature authorized \$3,860,000 to be used in 2012 on the following scope:

CENTER FOR FORENSIC SCIENCES: \$1,200,000

We have completed the following projects: structural masonry repairs and window replacements.

COURTHOUSE: \$50,000

We completed the Motor Control Center replacement project.

JUSTICE CENTER: \$413,000

We have completed the project to refinish the exterior insulation and finish system. We have completed the kitchen floor and trench drain replacements. We purchased and installed a new industrial dishwasher. We have completed the fire alarm panel and system replacement.

PUBLIC SAFETY BUILDING: \$350,000

We have completed the third floor Central Intelligence Division. We have completed renovations on the fourth floor in the Finance and ABC areas, as well as relocation of the records division to the first floor.

SHERIFF'S HEADQUARTERS: \$50,000

We have completed selective abatement, as well as carpet and flooring replacement projects. We have also reconfigured and modified the lobby of this building.

MULTIPLE BUILDINGS/EXTERIOR COMPLEX: \$800,000

We have completed the storefront entries at the Civic Center, Public Safety Building, and Justice Center. We have completed the contract for upgrading the telecom room HVAC at the Civic Center. We have begun various lighting and controller replacements with new LED systems and have upgraded our War Memorial athletic fitness area.

ED KOCHIAN COUNTY OFFICE BUILDING: \$1,246,000

The abatement project for floors 1, 2, 4, 5 and 6 was completed. This project was the first step of a multiple floor rehabilitation project.

Countywide Funds

In December 2012 the County Legislature authorized \$1,000,000 in our 2013 budget to do the following improvements.

CRIMINAL COURTHOUSE: \$105,000

The elevator shaft pits have buckled under a combination of subgrade hydraulic pressure and structural failure and need to be repaired.

JUSTICE CENTER: \$70,000

The elevator shaft pits have buckled under a combination of subgrade hydraulic pressure and structural failure and need to be repaired.

PUBLIC SAFETY BUILDING: \$210,000

We completed the abatement, encapsulation and renovation on the third floor CID. In addition, the renovation of the 4th floor for Evidence(CSU) was completed.

DH&C PLANT: \$250,000

Replacement of National Grid vaults, which are unsafe and unstable. Design is complete, project is delayed because of high bids and the design is being reevaluated.

MULTIPLE BUILDINGS/EXTERIOR COMPLEX: \$435,000

The installation of ADA operators for elevator lobby doors (\$160,000) and ADA improvements to the Theater Restrooms were completed in May 2017.

In Fall 2013 the County Legislature authorized \$500,000 in our 2014 budget as pay-as-you-go funds and in 2014 they authorized \$645,000 to be used on the following scope:

ASSET MANAGEMENT SYSTEM: \$650,000

The County is in need to assess, benchmark and input data pertaining to the condition of all County's assets. With an Asset Management System, we will have the tools necessary to analyze and review building conditions and systems in order to determine capital planning, prioritize investments, and protect the County's assets. The first step in the asset management system was deployed in 2016 with the application of Que Ware work order system. We are in the process of researching different asset management systems.

VARIOUS IMPROVEMENTS IN CIVIC CENTER \$180,000

This project provided for renovations of the Onondaga Room for the use by the general public, county employees and the theater patrons. In 2015 and 2016 the former Onondaga Room was renovated as well as the entrance to the cafeteria.

EVERSON GARAGE/COMMUNITY PLAZA: \$330,000

This sub-project will address the following:

- Replacement of Everson Garage fire alarm system. (\$280,000)
- Concrete work on West Garage stairs/entrances (\$50,000) was completed in early 2017

In June 7, 2016 the County Legislature authorized \$1,100,000. These funds as well as some of the future funds, for which we plan to seek legislative authorization in the future years, will be spent on the following projects:

VARIOUS IMPROVEMENTS IN CIVIC CENTER \$1,000,000

The main focus of this project is to continue the renovation efforts in the Civic Center, which include ADA enhancements in restrooms and security provisions for employees related to modifications of front entrances, key access doors and surveillance cameras.

MULTIPLE BUILDINGS/EXTERIOR COMPLEX: \$946,000

This sub-project will address the following objects:

- Asbestos removals. We will continue removals and cleanups in various buildings and tunnels. (\$350,000)

Countywide Funds

- Sidewalk panel replacement - miscellaneous areas (\$100,000)

- Replace and enhance public address systems in compliance with PESH, Codes and Emergency Management reports (\$150,000)

- Repair Terrazzo flooring and drains at Civic Center entries. Replacement of the existing vestibule flooring with Pedigrd systems at entries.(\$60,000)

- Steam trap replacements in various buildings. This project has a 5 year payback due to savings in maintenance and energy (\$300,000 with \$99,000 NYSERDA incentive leaving a local cost of \$201,000)

- Justice Center: We have already started to modify and correct controlling for the booster pumps and domestic hot water. We are also replacing hot water storage tanks including master mixing valves, balancing the domestic hot water recirculation (circuit setters) and replacing solenoid valves that control the individual towers. We used previously authorized funds to finance this project. This work was completed by summer of 2018.

- Civic Center: Various repairs to the compactor and dumpster station in the loading dock. (\$85,000).

- Board of Elections: Roof replacement is necessary in this building. This roof has been in need of many repairs in the last 3 years. In 2010 a condition assessment of this roof was done and the recommendation was to replace it in 5 years. (\$350,000). Fence repair and replacement is another project we intend to do since many sections and posts of the fence are deformed and in some places broken (\$25,000).

- Surveillance system enhancement in various buildings in the downtown complex: This project will encompass some additions and improvements in hardware and software to the existing surveillance system, which will enhance the actual performance of this system (\$24,000)

We intend to seek legislative authorization for \$1.5 M for construction funds in fall 2019.

Countywide Funds

DEPARTMENT: FACILITIES MANAGEMENT

Project: LED lighting upgrade in various buildings in downtown campus

Purpose: Reduce Operating Costs/Efficiency

Level of Development: Advanced

Project Description:

The goal of this project is to replace existing light bulbs in various buildings in the downtown campus with LED light bulbs. This retrofit will achieve savings in both energy and maintenance.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	444						444	444
State Aid	0	91						91	91
TOTALS	0	535						535	535

Project Detail and Status:

This project will consist of installing Light Emitting Diode (LED) bulbs and tubes in compatible existing fixtures in the Onondaga County Justice Center, OnCenter Parking Garage, Everson Parking Garage. For the most part the existing fluorescent fixtures and ballasts are compatible with linear LEDs and bulbs and no substantial electrical work will be required. In a few instances, fixture or ballast replacement may be required. The use of LEDs will result in a 50% energy savings as compared with the lights being replaced and have a life of approximately 10 years when used about 12 hours per day. Thus the replacement of fluorescent and incandescent lights with LEDs will reduce maintenance costs as well as energy costs.

It is calculated that the costs, savings and the payback for the three locations included in the scope of this project are the following:

Justice center:

Total Cost : \$440,000
Local Cost: \$384,000
National Grid incentives: \$56,000
Annual Savings Maintenance and Electricity: \$62,000
Payback: within 6.5 years

Oncenter Parking Garage:

Total Cost: \$81,000
Local Cost: \$51,000
National Grid incentives: \$30,000.
Annual Savings Maintenance and Electricity: \$19,500
Payback: within 3 years

Everson Parking Garage:

Total Cost: \$10,000
Local Cost: \$4,500
National Grid incentives: \$5,500.
Annual Savings Maintenance and Electricity: \$2,000
Payback: within 3 years

We plan to seek Legislative authorization for these funds in Fall 2019.

Countywide Funds

DEPARTMENT: FACILITIES MANAGEMENT

Project: Oncenter Rehabilitations

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development

Level of Development: Advanced

Project Description:

We propose to replace, rehabilitate and restore various fatigued, out of date and failing systems and components within the Oncenter Building group. This will include, but will not be limited to, theater enhancements of acoustical treatments, ADA upgrades and appurtenances, building systems modifications, as well as lighting and insulation replacements.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Authorized Borrowing	3,750	750						750	4,500
Borrowing to be Authorized	0		500	500	500	500	500	2,500	2,500
State Aid	100							0	100
TOTALS	3,850	750	500	500	500	500	500	3,250	7,100

Project Detail and Status:

In December 2012 the County Legislature authorized \$1,500,000 for reconstruction/construction of improvements at the Oncenter, including equipment and furnishings, for projects planned in 2013, 2014, and 2015. The following projects have been completed or are planned:

- Replaced a part of the Convention Center roof, specifically the lower west side roof over the loading dock (\$153,000). The east side of the lower roof will be replaced at an estimated cost of (\$125,000).
- Reinforced and secured Oncenter Garage safety cable fencing (\$78,000).
- Replaced dasher boards for ice hockey and indoor soccer events (\$345,000).
- Replaced the War Memorial laundry facility equipment (\$20,000).
- State St. door system (\$144,000).
- Harrison St. door system (\$72,000).
- Montgomery St. door system (\$20,000).
- Expansion of War Memorial of ice surface (\$500,000). The work was completed in October 2015.
- Replacement of the ballroom lights (\$141,000). The work was expected to begin in 2015. It was publicly bid and the low bid was over \$500,000. We have not started the work because the lowest bid was over budget. We have to work with SMG to make a decision on how to proceed.

In June 7, 2016, the County Legislature authorized \$1,500,000 (Bond Resolution #97) which was spent on the following:

- Replacement of outdated center hung scoreboard in War Memorial and replacement of the old box office marquees with new digital LED graphics marquees.
- Replacement of the last old section of Convention Center roof.

In December 2018 the County Legislature authorized \$1,500,000 (Bond Resolution # 169), which will be spent during 2019-2020 on the following:

- Replacement of the inefficient high wattage lighting and controlling systems.

- Insulation repairs, Convention Center.

We have many areas of disrepair and disturbance, mostly in the mechanical, kitchen, and basement areas. They need to be restored to their original integrity. Leaking condensation is causing damage to assets and the loss of heating and cooling radiating away from our systems is costing money.

- Replacement of Crouse Hinds Theater pit elevator, which is at the end of its useful life.

- The Crouse Hinds and Carrier Theater dressing rooms will be renovated because their current conditions are not up to standards.

- Replacement of the War Memorial Marquee roofs.

We will replace the leaking built up roofs with new membrane roofs, which will have at least 20 year warranty.

- Replacement of light fixtures and controls in the Gallagher Hall and Atrium of the Convention Center.

In the actual conditions the old high wattage systems have failed or are about to fail. We will replace them with new LED technologies which not only have a longer life and a lower cost of maintenance but they consume much less electricity.

- Miscellaneous concrete repairs at the War Memorial and Convention Center Loading docks.

Existing conditions have areas of spalling and failure. This investment will prolong the life of the loading docks and increase the safety level.

- Seating replacement and ADA configuration at the Crouse Hinds Theater.

In the actual conditions we do not have the ability to offer the required seating opportunities to patrons with special needs.

- Modify the War Memorial stage load indoors on Harrison St. by adding an extendable docking platform. Currently the existing doors do not offer the required loading truck docking to book and promote larger shows. This will reduce labor and improve revenues.

In fall 2020 we will seek legislative authorization for the remainder of \$500,000 to continue with further improvements.

Countywide Funds

DEPARTMENT: FINANCE DEPT

Project: Build a Science, Technology, Engineering, Arts and Mathematics (STEAM) High School (NEW)

Purpose: Community/Economic Development

Level of Development: Intermediate

Project Description:

The Syracuse City School District and Onondaga-Cortland-Madison Board of Cooperative Educational Services, in partnership with Onondaga Community College (OCC), Le Moyne College, other higher education institutions, various school districts and businesses propose an innovative, Onondaga County-wide initiative to advance student learning in the Career, Technical and Performing and Visual Arts and related sciences and technologies; encourage high school graduation and college attainment; address conditions associated with persistent poverty; and, rehabilitate an iconic architectural and historic academic structure in downtown Syracuse—Central High School. The proposed project, a Science, Technology, Engineering, Arts, and Mathematics (STEAM) high school, focused on STEM programs, Performing Arts and related sciences and technologies, will anchor an area of the City beginning to experience redevelopment, serve as a focal point and catalyst for future private development and collaboration, and foster synergy with professional arts organizations in the region.

The site of this bold project to build the first STEAM High School in Central New York will be the Archimedes Russell-designed former Central High School, which features an existing proscenium stage and ample space to build out both fine arts rehearsal spaces and science and technology laboratories to serve 800-1000 students. This facility, vacant since 1975, is located on South Warren Street in Syracuse and listed on the National Register of Historic Places. Rehabilitation of this landmark property to serve as the home of a new STEAM high school will have the added effects of returning a landmark property to productive use and encouraging investment both in local arts organizations and in areas surrounding the new high school.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	75,000						75,000	75,000
TOTALS	0	75,000						75,000	75,000

Project Detail and Status:

The Syracuse STEAM project will provide curricula to 800-1000 students passionate about Science, Technology, Engineering, Math and the Arts. The programs will include: Remotely Piloted Aircraft Systems, Computer Technology, Electrical and Mechanical Technology, Business and Financial Services as well as a diverse program in the Arts including dance, theatre, visual arts, music, media arts and writing. The curriculum also will offer intensive training, internships, and eventually apprenticeships in arts-related sciences and technologies, including kinesiology, music technology and audio engineering, arts finance and curating, film production, and similar fields. In partnership with higher education institutions, business partnerships with employers in the programs listed above, students will be positioned for a career or college upon completion of high school, either in the Science, Technology, Engineering, Arts and Math disciplines.

The Syracuse City School District has invested in a strategy to generate increasing intellectual energy and a sense of community in its high schools by focusing both on NYS learning objectives and specific fields of interest to students and regional industry. During the 2007-08 school year the school district opened the first Career and Technical Education Program at the Institute of Technology (ITC). This program has demonstrated to be very successful. Evidence of this success is the graduation rate for ITC, which reached 93% during the 2016-17 school year. This approach, coupled with support from Say Yes to Education and other community-based organizations, has produced measurable improvements in the Syracuse City School District's high school graduation rates. The cohort of 2009 had a graduation rate of 51.9%, and for the first time in a decade, the cohort of students entering ninth grade in 2013 in the Syracuse City School District reached a graduation rate of 64%. The Syracuse STEAM project seeks to extend these successes to a performing arts and related sciences and technologies high school that takes social justice and inclusion a step further by encouraging enrollment both from within the City of Syracuse and across the region. We expect this approach will encourage enrollment of an ethnically and socioeconomically diverse student population, thereby helping to overcome the negative effects of

housing patterns that have isolated the poorest students in our region in high schools facing the greatest challenges rooted in persistent poverty. This inclusive excellence approach to high school education can be expected to build both the social capital and non-cognitive, social-emotional skills students need to succeed, consistent with the recommendations of the American Enterprise Institute/Brookings Institution Working Group on Poverty and Opportunity (2015).

Public school students from across Onondaga County will be eligible to apply for enrollment through OCM BOCES with the support of their local high school. These students will have the opportunity to take advantage of innovative teaching and learning focused on the arts and related sciences and technologies and participate in innovative arts internships in the region, as well as break week and summer experiences both in the region and, eventually, in New York City. The model will be similar in design to the Innovation Tech High School and Seven Valleys New Tech Academy recently established by OCM BOCES in Onondaga and Cortland Counties, respectively, to advance innovative teaching and learning in technical fields.

Central to 21st century learning for all students is preparation for successful college entry and degree attainment. OCC will support this project through its OCC Advantage program, which provides enrolled students with support and specific behavioral goals appropriate to each year in high school that help students to be college-ready upon high school graduation. In addition, interested students will have the opportunity to begin college-level courses with OCC while still in high school leading to specific degrees in the arts and related sciences and technologies at OCC or the college of the student's choice.

STEAM project collaborators will require and seek resources both to build out the Central High School site and to support their individual contributions to the project.

We intend to seek legislative authorization for this project in fall 2019.

Countywide Funds

DEPARTMENT: INFORMATION TECHNOLOGY

Project: Evidence Management System Upgrade (NEW)

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Addition Capacity

Level of Development: Intermediate

Project Description:

The goal of this project is to upgrade the software and hardware of the existing evidence management system that is used by Onondaga County's law enforcement and forensic agencies. These upgrades will allow all 30 sites including the Center for Forensic Sciences, the County District Attorney, the County Sheriff and all law enforcement agencies in the County to take advantage of updated technology to increase the effectiveness and efficiency of their work.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	630						630	630
TOTALS	0	630						630	630

Project Detail and Status:

In 2009, Onondaga County embarked on a one of a kind property and evidence management system that combines property and evidence tracking within all law enforcement agencies within the County (BEAST Evidence Management System or EMS) with a fully functioning laboratory and medical examiner information system (BEAST Laboratory Information Management System or LIMS) at the Forensic Science Center. While this system has offered tremendous benefits to the law enforcement and forensic agencies throughout the county, it runs on older technology and requires an upgrade in hardware and software to take advantage of updated features and to be fully effective. We are proposing to upgrade both the EMS and LIMS system from a client-server based system to a web-based system.

The web-based system offers the following advantages:

- No longer requires the use of Citrix, which leads to the following benefits:
 - Improved performance speed. Current system has significant delays due to slow connections
 - Some USB hardware and printers are not supported with Citrix
 - Cost savings due to significant licensing costs with Citrix
- Runs on an SQL rather than an Oracle database. Licensing and maintenance costs are less with SQL.
- Web-based server rather than client based server requires less IT support for set up and maintenance/updates.
- Upgraded system ensures compatibility into the future with newer operating systems as well as interfacing with external systems.
- Allows for future enhancements as vendor is phasing out current client/server making upgrades and enhancements unavailable with current system.

Current benefits of the BEAST database system that will continue as part of the upgraded system are:

- The system allows all Town and Village Police Departments, the Sheriff's Office, the Syracuse Police Department, the District Attorney's Office, the Forensic Laboratories and the Medical Examiner's office to share critical information on cases and eliminate duplicative entry system.

Countywide Funds

- The system makes use of barcoded labels to transfer and track evidence throughout its lifetime from collection at the crime scene to storage at property and transfers that may occur to the Forensic Center and/or District Attorney's offices.
- The system contains listing reports that allow agencies to make specific queries regarding different types of evidence such as firearms or controlled substances for destruction and auto-generation of return-to-owner letters for property dispositions.
- The system allows for police agencies and the DA's office to make and view all requests for laboratory analysis within the system and provides Medical Examiner and Laboratory reports to requesting agencies contemporaneously as they are released without any downtime relating to distribution or mailing of hard copies of reports.
- The system serves as a comprehensive laboratory information system to include chain of custody, sampling, electronic note taking, item attributes, and reporting for both the Forensic Laboratories and the Medical Examiner's Office.

We intend to seek legislative authorization for this project in Fall 2019.

Countywide Funds

DEPARTMENT: OFFICE OF ENVIRONMENT

Project: Ash Tree Management

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Advanced

Project Description:

Emerald Ash Borer (EAB), an invasive species of beetle that kills ash trees, arrived in the U.S. around 2002 and is spreading across the Country. The beetle is already infesting ash trees in Onondaga County. One in nine trees in Onondaga County is an ash tree.

Onondaga County has developed and is implementing an Emerald Ash Borer (EAB) management strategy in order to minimize the hazard risk to the community, the impact of EAB on County operations and to plan for and minimize EAB costs (tree removal/inoculation, manpower and equipment, disposal and tree replacement). All County-owned ash trees with potential targets in the drop zone (people or physical assets) will need to be removed or inoculated to protect the public, protect assets and reduce liability.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	2,250	600	600	600	600	600	600	3,600	5,850
Pay as You Go	250							0	250
Authorized Borrowing	750							0	750
TOTALS	3,250	600	600	600	600	600	600	3,600	6,850

Project Detail and Status:

The County owns approximately 300 parcels of land covering roughly 8,000 acres (including parkland, water supply and wastewater treatment plants, drainage districts, pumping stations, radio towers and institutional campuses for uses including administration, correctional facilities, emergency response operations and more) and nearly 800 miles of highway rights-of-way. These properties are home to tens of thousands of ash trees.

Steps must be taken by the County to ensure that the threat of harm to humans and/or damage to County-owned property is minimized, that the public cost of managing affected trees on County-owned property is minimized and that overall disruption in the community is minimized (including tree replacement needs). To this end the County has taken the following steps:

- 1) Conducted an inventory of ash trees on County-owned property
- 2) Managing ash trees on county owned properties (treating or removing)
- 3) Helping organize a community-wide task force to coordinate a Community EAB Management Strategy.

The inventory of ash trees (location, size, health, nearby targets) was initiated in 2012 and was completed in 2014. Early management efforts have been aimed at removing priority hazard trees, and damaged trees that are likely to become priority hazard trees in critical areas.

Onondaga County will implement a balanced or “selective” ash tree management strategy. The benefit of this balanced approach is that management of ash trees can be optimized at each location, preserving tree functions where they provide the greatest value, restoring lost canopy over time in other locations, and preemptively removing less valuable trees before they become a safety hazard. The County’s program features the following key elements:

- 1) Preemptive removal of approximately 95% of inventoried ash trees over a period of 12 years (a little over 44,000 trees).
- 2) Replacement of approximately 10% of removed trees, phased over 12 years, primarily in the County’s parks, with non-invasive, non-host tree species (a little over 4,400 replacement trees).

- 3) Preservation of approximately 5% of inventoried ash trees. These will be carefully chosen, high value ash trees that provide significant amenities for up to 25 years (approximately 2,300 ash trees).

To carry out the County's Ash Tree Management Strategy, the Office of Environment has entered into an Agreement with the Onondaga County Soil & Water Conservation District (SWCD) to prepare bid documents, administer contracts with vendors and to oversee tree removal and replacement. The SWCD will also assist the County with other EAB associated activities such as monitoring for infestations, community outreach and coordination with other municipalities within the county. It is estimated that the cost for the SWCD to provide these services to the County will be \$100,000/year. Though not part of these administrative and oversight costs, it is also expected that the SWCD will be responsible for inoculating trees selected for preservation.

When this project started the projected cost to carry out the County's ash tree management strategy over 25 years was \$15.8 million. At this point, due to more competitive bidding as well as saving due to the fact that we are not hiring outside contractors for inoculating the trees, we have reduced the total cost of the project to about \$8 million.

Estimated tree removal costs (over 12 years):	\$4.65 million
Estimated tree replacement costs (over 12 years):	\$0.75 million
Estimated tree inoculation costs (over 25 years):	\$1.6 million
Estimated administrative/oversight costs (over 12 years):	\$1 million
Estimated total cost (over 25 years):	\$8 million

We intend to seek legislative authorization for \$600,000 in Fall 2019

Countywide Funds

DEPARTMENT: ONONDAGA COUNTY PUBLIC LIBRARY

Project: Mobile Library Outreach (NEW)

Purpose: Community/Economic Development

Level of Development: Advanced

Project Description:

Mobile outreach through bookmobile service would allow us to provide equal access to library resources, instruction and vital technology support to ensure a complete census count of all individuals across our county. Beyond the census, bookmobile service would continue as an integral part of library outreach to daycare centers, nursing homes, housing units, senior centers, and other neighborhood stops in the city, suburbs and rural locations.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	260						260	260
TOTALS	0	260						260	260

Project Detail and Status:

Onondaga County Public Library is seeking funding support for the purchase of a bookmobile. With national attention focused on the 2020 census, our libraries recognize the need for deliberate and intentional efforts to reach hard-to-count communities, to ensure secure internet access and data privacy and to provide digital literacy support for seniors and other households. The bookmobile will also provide ongoing outreach and programming opportunities to a variety of community based organizations located in city, suburban and rural areas within Onondaga County.

With the requested funds we intend to purchase a 27 - 35 foot long vehicle well equipped with the following:

- Seating, cabinetry, shelving for library resources including laptops
- Wifi system
- Public Address system
- Air conditioning
- Electric Awning
- Rust proof aluminum body construction
- Desk
- File Drawers
- Commercial grade carpet
- LED lighting
- Safety Rails
- ADA compliant

We intend to seek legislative authorization for \$260,000 in the fall of 2019.

Countywide Funds

DEPARTMENT: ONONDAGA COUNTY PUBLIC LIBRARY

Project: Petit Branch Library addition and improvements

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Community/Economic Development, Addition Capacity

Level of Development: Intermediate

Project Description:

The goal of this project is to build a community room as an addition to Petit Library. In addition this project will include various interior and exterior upgrades.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	0	350						350	350
Borrowing to be Authorized	0	485						485	485
Other	0	50						50	50
TOTALS	0	885						885	885

Project Detail and Status:

The Petit Library has never had a community room in which to hold programs or community based meetings. This library is located in a busy vibrant neighborhood (Westcott) and the community has expressed a desire to have this kind of space within the library. The addition will provide the community with this space and will include areas for meetings, programs and maker space activities.

In addition this project will address a variety of maintenance and repair needs in both exterior and interior of the library:

- Flammable storage locker
- Tyco Security Camera System
- Time Card Clock Installation
- Replace rear entrance door/replace steel shed door & frame
- New sidewalk from parking lot to Library entrance/Stampcrete design
- Install new ceiling tile/drop ceiling
- Upgrade existing emergency lighting

We plan to seek Legislative authorization for these funds in Fall 2019

Countywide Funds

DEPARTMENT: ONONDAGA COMMUNITY COLLEGE

Project: Allyn Hall Upgrades and Improvements

Purpose: Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Preliminary

Project Description:

Complete the renovation of Allyn Hall.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	0		1,390					1,390	1,390
Borrowing to be Authorized	0		1,390					1,390	1,390
TOTALS	0		2,780					2,780	2,780

Project Detail and Status:

This project will complete the renovation of Allyn Hall including updating the existing locker rooms and restroom facilities, upgrading of the HVAC system, and the installation of a sprinkler system.

Countywide Funds

DEPARTMENT: ONONDAGA COMMUNITY COLLEGE

Project: Elevator Replacement and Upgrades/ Protection of the Campus E-mail and Phone Servers

Purpose: Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Preliminary

Project Description:

Replace outdated elevators along with upgrading the College's e-mail and Phone servers.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	0			323				323	323
Borrowing to be Authorized	0			323				323	323
TOTALS	0			646				646	646

Project Detail and Status:

Replace existing elevators with new, energy efficient units. Upgrade and enhance the software protection associated with College's e-mail and Phone servers currently housed in the Mawhinney Hall basement.

Countywide Funds

DEPARTMENT: ONONDAGA COMMUNITY COLLEGE

Project: Infrastructure - Campus Wide

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Preliminary

Project Description:

Various campus wide infrastructure enhancements.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	0			5,244				5,244	5,244
Borrowing to be Authorized	0			5,244				5,244	5,244
TOTALS	0			10,488				10,488	10,488

Project Detail and Status:

Provide for the addition and enhancement to various campus infrastructure items including the installation of a centralized emergency generator, installation of building kiosk system, update HVAC controls, campus lighting, technology upgrades, building access controls, and other various capital investment maintenance items.

Countywide Funds

DEPARTMENT: ONONDAGA COMMUNITY COLLEGE

Project: Site Improvements

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Preliminary

Project Description:

Various campus site improvements and projects.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	0		1,359					1,359	1,359
Borrowing to be Authorized	0		1,359					1,359	1,359
TOTALS	0		2,718					2,718	2,718

Project Detail and Status:

Various campus site improvements and projects including: outdoor campus spaces, development of the overlook parking lot and upgrading the northeast part of campus.

Countywide Funds

DEPARTMENT: PARKS & RECREATION DEPT.

Project: Beaver Lake Nature Center Boardwalk Replacement (NEW)

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Community/Economic Development

Level of Development: Advanced

Project Description:

The existing boardwalk is over 30 years old and is in need of replacement. It has been repaired on a piecemeal basis a number of times. The wood is deteriorating and some sections are submerged for much of the year. Also there are areas of shoreline needing retention or stabilization that will be included.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	1,835						1,835	1,835
TOTALS	0	1,835						1,835	1,835

Project Detail and Status:

The Lake Loop Trail at Beaver Lake is 3 miles long and was constructed between 1978 and 1987. In this trail there are 3 sections of boardwalk, which goes through the swampy bog area of the trail, that need to be replaced. The total length of these board walks is approximately one half mile. The length of each section is:

- Section 1 - 2,053'
- Section 2 - 436'
- Section 3 - 87'

The board walk was examined in spring 2019 and it was recommended by specialists that the piling supporting the boardwalk planking should be replaced with new helical piles to ensure stability and minimize environmental impact.

In Fall 2019 we plan to request funding of \$1,835,000 to complete the work described above in conjunction with the 50th anniversary of Beaver Lake Nature Center.

Countywide Funds

DEPARTMENT: PARKS & RECREATION DEPT.

Project: Hopkins Road Softball Park Rehabilitation (NEW)

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Community/Economic Development

Level of Development: Advanced

Project Description:

The condition of Hopkins Road Softball Park is deteriorating. In the summer of 2018 the concession stand was significantly damaged due to a fire. Many of the light towers are in need of replacement. In winter of 2018-2019 one of the field light towers was damaged by high winds. In addition the parking lot is in need of repaving. The proposed rehabilitation at Hopkins Road will improve both the safety of the users and the potential revenue that can be obtained by the County under its lease agreement with the public/private partner.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	530	1,470					2,000	2,000
TOTALS	0	530	1,470					2,000	2,000

Project Detail and Status:

Hopkins Road Softball Park is a six diamond complex that features five tournament-quality softball fields and a fenced baseball field. Summer and fall leagues for men, women, co-ed and senior teams dominate weeknights from April through early November with regional and national tournaments showcasing slow pitch and fast pitch action on several weekends and contributing to the economy of the County. Operation of Hopkins Road Park is contracted to a third party that is responsible for booking field usage, tournaments and concessions.

The scope of this project will include the following:

- Replacement of playfield turf
- Replacement of all field fences
- Repair or replace the failed lights
- Replace the scoreboard which is very old, malfunctioning and beyond repair
- Replacement/expansion of concession stand that was damaged by fire in 2018
- Replace Dugout Canopies
- Garage/storage building repair
- Parking lot repaving

In fall of 2019 the Parks department will seek legislative authorization for \$2,000,000 in bonds to rehabilitate Hopkins Road Softball Park.

Countywide Funds

DEPARTMENT: PARKS & RECREATION DEPT.

Project: Lights on the Lake Storage Facility

Purpose: Reduce Operating Costs/Efficiency, Maintain Existing Investment, Addition Capacity, Other

Level of Development: Advanced

Budget Impact: (\$34,800)

Project Description:

This project seeks to construct a warehouse facility to house the Lights on the Lake show inventory and also provide space in which to work on the light displays.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0		370					370	370
TOTALS	0		370					370	370

Project Detail and Status:

Onondaga Lake Park is home to the annual Lights on the Lake show and the approximately 200 displays are currently stored in a rented space. This is a construction project for building a warehouse and workspace for the lighting displays of the Lights on the Lake show. The new building would be located in Onondaga Lake Park, which increases convenience over the current location because it is on site; Parks employees would not have to leave the park to store or work on Lights on the Lake displays. The proposed building is expected to have a useful life of at least thirty years.

Countywide Funds

DEPARTMENT: PARKS & RECREATION DEPT.

Project: Long Branch Park Improvements

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development, Addition Capacity

Level of Development: Advanced

Project Description:

Long Branch Park is one of the most popular event destinations in the Onondaga County Parks system. This construction project is to replace the aging structures and improve the parking and entrance area to the park. This effort will also bring the aging park up to current ADA and building codes for restrooms, accessibility and parking.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Authorized Borrowing	350							0	350
Borrowing to be Authorized	0	1,000	1,000					2,000	2,000
TOTALS	350	1,000	1,000					2,000	2,350

Project Detail and Status:

On 2/2/2016 the County Legislature authorized \$350,000 (BR-009). With this amount authorized we have accomplished and are working on the following:

Designs for the maintenance building, ADA compliant comfort station and parking lot are complete. The shelters were completed in the Spring of 2017. (\$296,000)

In fall 2019 the Parks Department intends to seek legislative authorization for \$1,000,000 for the construction of the maintenance building, ADA compliant comfort station and associated upgraded electrical service capacity for those buildings in 2020.

Funding for the parking lot upgrades will be requested in fall 2020 for construction in 2021.

Countywide Funds

DEPARTMENT: PARKS & RECREATION DEPT.

Project: Oneida Shores Park Shoreline Rehabilitation (NEW)

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Community/Economic Development

Level of Development: Intermediate

Project Description:

Replace the degraded portion of the Oneida Shores boat launch and retaining wall. Also add a weigh station to support the professional fishing tournaments held at Oneida Shores park.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	0	320	100			250		670	670
TOTALS	0	320	100			250		670	670

Project Detail and Status:

Portions of the existing Oneida Shores boat launch are degraded primarily due to “power loading” of boats on to their trailers. The boats causing this problem are longer than those anticipated when the original boat launch was designed and constructed. In “power loading” the powerful engines on these boats are used to push the boats onto their trailers. This “power loading” scours and erodes the lake bottom causing displacement of the precast concrete panels of the ramp rendering these portions of the ramps unusable.

In fall of 2019 the Parks Department will seek legislative authorization for \$320,000 in bonds to do the following work in 2020:

Remove the existing precast concrete panels and install a cast-in-place concrete slab-on-grade ramp. (\$250,000)

Install a new pay gate for users of the boat launch. (\$70,000)

Subtotal \$320,000

In 2021 we plan to install a fish weigh station.

In 2024 we anticipate the need to repair/replace the retaining wall at the boat launch.

Countywide Funds

DEPARTMENT: PARKS & RECREATION DEPT.

Project: Parks Various Infrastructure Rehabilitation and Improvement (NEW)

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development

Level of Development: Advanced

Project Description:

Much of the Parks Infrastructure is decades old and is need of replacement. Some equipment is obsolete and spare parts are unavailable. Buildings are in need of renovations and updates to meet current standards. Playgrounds are aging and need new equipment and resurfacing. Park roads, parking areas and trails need continuing repair and repaving. This project will take a systematic approach to replacing old and obsolete equipment, systems and surfaces at various facilities in the Parks Department.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	2,256	2,087	2,395	1,285	500	500	9,023	9,023
TOTALS	0	2,256	2,087	2,395	1,285	500	500	9,023	9,023

Project Detail and Status:

The following list represents the parks and the objects in each of them where we will do replacing or renovating work. This list is presented in priority order.

In Fall of 2019, the Parks Department intends to request \$2,256,000 to complete the following 2020 projects:

Loomis Cemetery has areas that flood occasionally in the spring and during heavy rains. To eliminate flooding, a ditch that runs through the property will be deepened and rerouted. In addition, a new ditch and flood retention ponds will be constructed. (\$210,000)

Replace aged water main and add hydrant to Marina and Yacht Club at Onondaga Lake Park which previously failed in 2016. (\$90,000)

Replace aging mechanical systems and components at various parks (\$140,000), including:

- Highland Forest and Pratts Falls: replace outdated gasoline and diesel fuel tanks with new double walled tanks with electric fuel pumps with usage monitoring.
- Jamesville Beach: replace a 20 year old hot water heater.
- Zoo: replace a failing cooling tower.
- Beaver Lake Visitor Center: replace the flue on the boiler.

Retrofit or replace outdated lighting and install additional lighting for safety and security purposes including:

- Zoo: retrofit outdoor lights around the main pond and replace outdated lights in the primate wing with LEDs. (\$20,000)
- Oneida Shores: replace lights on the exterior of buildings and lights on poles along roadways and trails with LEDs and add solar powered lighting on roads and trails near Arrowhead lodge. (\$55,000)
- Beaver Lake: add solar powered lighting at the "Overflow" lot for safety and security. (\$25,000)
- Zoo: Perform engineering study, evaluation and analysis to determine potential water leaks and determine if repairs are necessary. Water consumption has increased in recent years. (\$40,000)

Countywide Funds

Repair, replace, upgrade and add the following small buildings:

- Onondaga Lake Park: replace Childrens Landing Sewer Pump Building (\$25,000),
- Beaver Lake: add a new North Maintenance building to replace a failing storage barn and add a garage near the pole barn (\$100,000),
- Beaver Lake; replace windows in Visitors center and maintenance building, (\$50,000),
- Beaver Lake: replace paneling and floor tile in the Community Room (\$25,000),
- Zoo: replace leaking roof on the Contact Barn (\$200,000)

Remove and replace the following fences or barriers:

- Rosamond Gifford Zoo: Butterfly Garden Split Rail Fence, Penguin Exhibit, White Lipped Dear Exhibit, Tiger Exhibit, Miscellaneous Other Fences (\$111,000)
- Onondaga Lake Park Wegmans Good Dog Park: remove and replace fence (\$100,000)
- Highland Forest, Pratts Falls and Ska nonh: replace and add access control and barrier gates (\$25,000)

Pave or repair roads or trails at various parks (\$315,000) including:

- Zoo: several miscellaneous "tripping hazards" and flexi-pave
- Loomis Cemetery: repair and apply stone dust to the internal roads

Replace and add structures and surfaces of playgrounds at Onondaga Lake and Long Branch Parks (\$325,000)

Replace Sawmill Creek restroom which was destroyed in a fire in June 2019. (\$400,000)

Subtotal \$2,256,000

In Fall 2019 we plan to request funding of \$2,256,000 to complete the work described above.

In 2021 we plan to do the following:

Repair, renovate, replace or build the following buildings at various parks (\$962,000) including:

- Onondaga Lake Park: renovate Hiawatha Point Comfort Station; convert former Onondaga Lake Park Concession building that is now empty to a reserved shelter space.
- Jamesville Beach: build two new reserved space shelters, one to replace an aging point tent, the second to mitigate capacity constraints.
- Jamesville Beach: replace Sandpiper Shelter and Overlook deck
- Highland Forest: add equipment storage garage

Countywide Funds

Onondaga Lake Park Marina: evaluate condition of docks, electricity, lighting, break wall repairs/upgrades (engineering design only) (\$50,000)

Zoo: make necessary repairs to water system as determined by engineering study and analysis conducted in 2020. (\$125,000)

Jamesville Beach: repave parking lot and driveways (\$450,000)

Upgrade or replace playground structures and surfaces (\$500,000) including:

- Willow Bay playground (pending completion of beach study)

- Oneida Shores,

- Jamesville Beach

- Onondaga Lake Park Wegmans Good Dog park

Subtotal \$2,087,000

In 2022 we plan to do the following:

Pratts Falls: Camp Brockway is one of the County's most rented facilities for parties and banquets. This project will update the kitchen facilities. (\$45,000)

Carpenter's Brook: The public restrooms at Carpenter's Brook are old and have equipment for which spare parts can no longer be purchased. This project will update the restrooms. (\$65,000)

Parks Administration Building: The windows in the Parks Building have significant air leakage and infiltration resulting in high energy costs. This project will replace the windows with ones that are more energy efficient. (\$360,000)

Onondaga Lake Park Marina: repair, replace and upgrade docks, electrical system, lighting and break wall as determined by the engineering study and analysis conducted in 2021.(\$750,000)

Pave or repave parking lots at various parks (\$675,000) including:

- Highland Forest Sledding Hill parking lot to be paved

- Onondaga Lake Park Griffin Visitors Center repave parking lot

- Beaver Lake maintenance area to be paved

Add or replace playground structures and surfaces at various parks (\$500,000) including;

- Highland Forest: add a new playground

- Various parks: replace old and worn playground structures and surfaces

Subtotal \$2,395,000

In 2023 we plan to do the following:

- Zoo: replace heating boilers (\$100,000)

- Beaver Lake: restore "Lake House" for use in Parks Department Programs (\$100,000)

Countywide Funds

- Oneida Shores: pave East and West McKinley Shelter parking areas and repave main entry road (from Bartel Road) (\$275,000)
- Highland Forest: repave various sections of the main road (\$310,000)
- Various parks: continue to replace and add playground structures and surfaces (\$500,000)

Subtotal \$1,285,000

In 2024 and 2025 we plan to continue to replace and add playground structures and surfaces to various parks (\$500,000 each year)

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Bituminous Surface Treatment

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Project Description:

This project provides for the treatment of County highways with a bituminous surface treatment to prolong the life of the wearing surface.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	1710							0	1,710
Pay as You Go	390	933	2,350	2,400	2,550	2,650	2,758	13,641	14,031
Borrowing to be Authorized		1,317						1,317	1,317
TOTALS	2,100	2,250	2,350	2,400	2,550	2,650	2,758	14,958	17,058

Project Detail and Status:

The bituminous surface treatment program is designed to protect 375 centerline miles of the low volume County cold mix highway system. The program's focus is to preserve the cold mix roads using a data driven, system-wide decision making approach. Consistent with the New York State Department of Transportation's Forward Four Guiding Principles, a "preservation first" strategy is being implemented as part of this capital plan to keep good cold mix roads in a state of good repair in order to realize a lower-cost preservation cycle, as opposed to using a "worst first" approach.

This process seals the surface of low volume highways while enhancing the traction and stopping abilities of the wearing surface, thereby reducing the County's liability.

Pavement ratings and traffic volumes will be used as a basis in the selection of the needed highway work. In addition, the importance of each highway as it relates to the overall transportation system will be considered as well.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Bridges

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Federal/State Mandate, Community/Economic Development

Level of Development: Ongoing

Project Description:

This program addresses the maintenance and repair of bridges within the County highway system.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Federal Aid	80							0	80
Borrowing to be Authorized	880	900	920	940	960	980	1,000	5,700	6,580
Pay as You Go	200	210	220	230	240	250	260	1,410	1,610
State Aid	15							0	15
TOTALS	1,175	1,110	1,140	1,170	1,200	1,230	1,260	7,110	8,285

Project Detail and Status:

The Department of Transportation operates an ongoing bridge construction program, using Department forces, to maintain the 210 bridges within the County highway system in a safe and acceptable condition. Site selection is determined through inspection results. Contract forces, frequently with State and Federal aid, undertake larger projects.

The New York State Department of Transportation conducts an annual inspection of all bridges in the State with a span of twenty feet or greater. Each bridge receives a condition rating based on a scale of zero to seven. The Onondaga County Department of Transportation's goal is to raise the average condition rating of its bridges to over five. The increased annual funding of this project reflects the Department's efforts to meet this goal.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Capital Highway Construction

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development, Maximize Outside Funding

Level of Development: Ongoing

Project Description:

This project involves construction of major highway improvements.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	448	1,800	700	400	2,550	722	1,000	7,172	7,620
State Aid	195	1,172	480	180	2,500	400	600	5,332	5,527
Federal Aid	2552	4,480	3,000	1,300	16,000	3,000	4,000	31,780	34,332
TOTALS	3,195	7,452	4,180	1,880	21,050	4,122	5,600	44,284	47,479

Project Detail and Status:

This project encompasses major highway improvements as follows:

1. - Traffic Capacity - includes improvements to signalization, grading, and alignment using designs based upon the projection of traffic volumes 20 years into the future.
2. - Accident Reduction - using NYS "Accident Location Information System" (ALIS) accident rate reports, improvements to pavement quality, highway geometrics, road shoulders, turning lanes, traffic control devices, guide rail, and the elimination of roadside hazards, are made in an effort to reduce the accident rates at identified locations.
3. - Green Infrastructure - Projects under this category would utilize means and methods of green infrastructure to encourage the retention and infiltration of storm water runoff.
4. - Maintenance Costs - improvements such as full depth replacement of the pavement, paved shoulders, improved drainage, and provisions for sub base drainage are made to extend the pavement life of highways.
5. - Right of Way Acquisitions – the purchase of needed Rights of Way necessary to complete the programmed projects.

The program's focus is to preserve our highway system consistent with the New York State Department of Transportation's Forward Four Guiding Principles. This "preservation first" strategy is being implemented as part of this capital plan to keep pavements in a state of good repair in order to realize a lower-cost preservation cycle, as opposed to using a "worst first" approach.

Individual highway projects are at various stages of development. Due to the severely rising costs of construction and the need to maintain an even flow of funding, some projects have been funded over multiple years.

Locally Administered, Federally Aided Highway and Bridge Construction projects have been funded as part of this plan. Projects include Old Route 5 & Warners Road, Onondaga Lake Canalway Trail Salina Extension, and Old Liverpool Road Paving Project.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Caughdenoy Road / NYS Route 31 Road Improvements

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development, Maximize Outside Funding, Addition Capacity

Level of Development: Preliminary

Project Description:

This project will improve Caughdenoy Road from NYS Route 31 to 0.61 miles north in conjunction with the White Pines Business Park Development. The intersection of NYS Route 31 and Caughdenoy Road will also be improved.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Authorized Borrowing	530							0	530
Borrowing to be Authorized	0		4,400					4,400	4,400
TOTALS	530		4,400					4,400	4,930

Project Detail and Status:

The scope of this project is to replace the existing two lane Caughdenoy Road with a three lane section from NYS Route 31 to the railroad crossing 0.61 miles north in conjunction with the development of the White Pines Business Park. As part of the project, the Caughdenoy/Route 31 intersection will be improved by adding dedicated left turn lanes on all legs and the addition of a new three colored traffic signal.

The funding for engineering design of this project was authorized by Resolution #165 dated November 9, 2012.

The construction, by contract forces, is anticipated to start in 2021 and be completed in 2021.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Cold Mix Bituminous Paving

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Project Description:

This project entails the repaving of the 375 miles of secondary County roads on a rotating basis.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	1480	1,250	1,850	1,520	250	630	680	6,180	7,660
Pay as You Go	0	250	150	1,030	2,675	2,797	3,270	10,172	10,172
State Aid	1110	2,140	2,140	2,140	2,140	2,140	2,140	12,840	13,950
TOTALS	2,590	3,640	4,140	4,690	5,065	5,567	6,090	29,192	31,782

Project Detail and Status:

The cold mix bituminous paving program is designed to maintain 375 centerline miles of the low volume County cold mix highway system. The cold mix bituminous pavement is laid with a paving machine, and then surface treatment is applied.

The program's focus is to preserve the cold mix roads using a data driven, system-wide decision making approach. Consistent with the New York State Department of Transportation's Forward Four Guiding Principles, a "preservation first" strategy is being implemented as part of this capital plan to keep good cold mix roads in a state of good repair in order to realize a lower-cost preservation cycle, as opposed to using a "worst first" approach.

Pavement ratings and traffic volumes will be used as a basis in the selection of the needed highway work. In addition, the importance of each highway as it relates to the overall transportation system will be considered as well.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: DOT Facilities Improvements

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Advanced

Project Description:

This project consists of addressing repairs to two Department of Transportation maintenance facilities in order to keep them safe and operational.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	500	500					1,000	1,000
TOTALS	0	500	500					1,000	1,000

Project Detail and Status:

Onondaga County DOT currently has 4 maintenance facilities within the County. Two of these facilities are in need of repair, including the Marcellus and Jamesville shops. Several repairs are required in order to keep these facilities safe and operational. A summary of the items of work necessary for each facility is identified below:

Marcellus DOT Maintenance Facility

- Replace Gutters & Install Heat Tape;
- Repair Siding; Repair Roof;
- Replace Fuel Pumps;
- Replace Damaged Entrance Man Doors & Frames;
- Replace Overhead Doors; Floor Drain Repairs;
- HVAC system repairs;
- Replace Damaged Concrete Aprons;
- Update Card Reader & Camera System;
- Replace Ceiling Tiles;
- Repair Parking Lot Pavement.

Jamesville DOT Maintenance Facility

- Replace Gutters;
- Repair Block Walls;
- Replace Overhead Doors;
- Replace Man Doors and Frames;

Countywide Funds

- Repair Deteriorated Concrete Floor Drains;
- Repair Wash Bay Heaters;
- Replace Card Readers.

The proposed work is scheduled to be completed by both County forces and contract forces in 2020 and 2021.

In fall 2019 we intend to seek legislative authorization for \$1,000,000.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Guide Rail

Purpose: Public/Employee Safety/Health, Maintain Existing Investment

Level of Development: Ongoing

Project Description:

This program involves the installation of guide rail at various locations on County highways.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
County Tax Revenues	250	510	530	540	550	560	570	3,260	3,510
TOTALS	250	510	530	540	550	560	570	3,260	3,510

Project Detail and Status:

Guide rail has been used extensively in the last thirty years as a means to protect the traveling public from roadside hazards. This program is an ongoing annual program that will upgrade existing guide rail and provide for the installation of new guide rail at various locations on County highways to improve safety and reduce liability where roadside hazards are impossible or too costly to eliminate. Costs for guide rail replacement have increased since the New York State Department of Transportation now requires the usage of box beam type of guide rail. Costs shown reflect the additional cost to upgrade existing "W" beam rail with "box beam" rail.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Repaving Program (Hot Mix Bituminous)

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Community/Economic Development, Maximize Outside Funding

Level of Development: Ongoing

Project Description:

This program provides for the repaving of major, high volume County roads to maintain our investment in the transportation system.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
State Aid	2800	3,500	3,500	3,500	3,500	3,500	3,500	21,000	23,800
Pay as You Go		272	4,260	5,860	8,600	9,400	10,791	39,183	39,183
Borrowing to be Authorized	4892	5,038	2,200	1,800	245	320	320	9,923	14,815
TOTALS	7,692	8,810	9,960	11,160	12,345	13,220	14,611	70,106	77,798

Project Detail and Status:

This ongoing bituminous hot mix program, which began in 1978, is designed to protect the County's investment in 428 centerline miles, equating to 477 two lane equivalent highway miles of higher-type roads.

The program's focus is to preserve the hot mix roads using a data driven, system-wide decision making approach. Consistent with the New York State Department of Transportation's Forward Four Guiding Principles, a "preservation first" strategy is being implemented as part of this capital plan to keep good hot mix roads in a state of good repair in order to realize a lower-cost preservation cycle, as opposed to using a "worst first" approach.

Pavement ratings and traffic volumes will be used as a basis in the selection of the needed highway work. In addition, the importance of each highway as it relates to the overall transportation system will be considered as well.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Testing, Drainage and Facilities Repair

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Project Description:

This project provides support programs for the Department of Transportation's Annual Work Plan.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Pay as You Go	400	425	500	515	530	540	550	3,060	3,460
TOTALS	400	425	500	515	530	540	550	3,060	3,460

Project Detail and Status:

The Department of Transportation operates and maintains ongoing Testing, Drainage and Facilities Repair programs to support our Annual Highway Work Plan and maintain the County highway system in a safe, acceptable and reliable condition. The testing program provides funds to continue our Pavement Management System, allowing us to prepare and prioritize our highways for Hot and Cold Mix Paving and Surface Treatment applications. The drainage project covers drainage repairs that need to be made in advance of the maintenance paving programs in order to perform these operations in a cost effective manner. The facilities repair project allows us to make repairs and perform maintenance to our four maintenance facilities not provided for in the annual budget.

Countywide Funds

DEPARTMENT: TRANSPORTATION

Project: Traffic Systems Management

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development: Ongoing

Project Description:

This program addresses Traffic System improvements on County highways.

Project Cost Summary:

FUNDING SOURCE:	2019	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	300	330	330	340		350		1,350	1,650
Pay as You Go					340		350	690	690
TOTALS	300	330	330	340	340	350	350	2,040	2,340

Project Detail and Status:

This program provides funds to upgrade various County highway intersections to improve traffic flow and safety. Highway capacity and safety can be increased at minimal cost on many County roads through intersection improvements. These projects are identified through our ongoing traffic count program, or through the use of the Accident Location Information System (ALIS). Types of work included in this classification are:

- Traffic signal installation or modification.
- Addition of turning lanes at an intersection.
- Complete intersection reconstruction including signals, adequate lanes and shoulders, paving, striping, roadside hazard elimination, etc.

The Department is constantly working to acquire Federal and State funds to supplement this program.

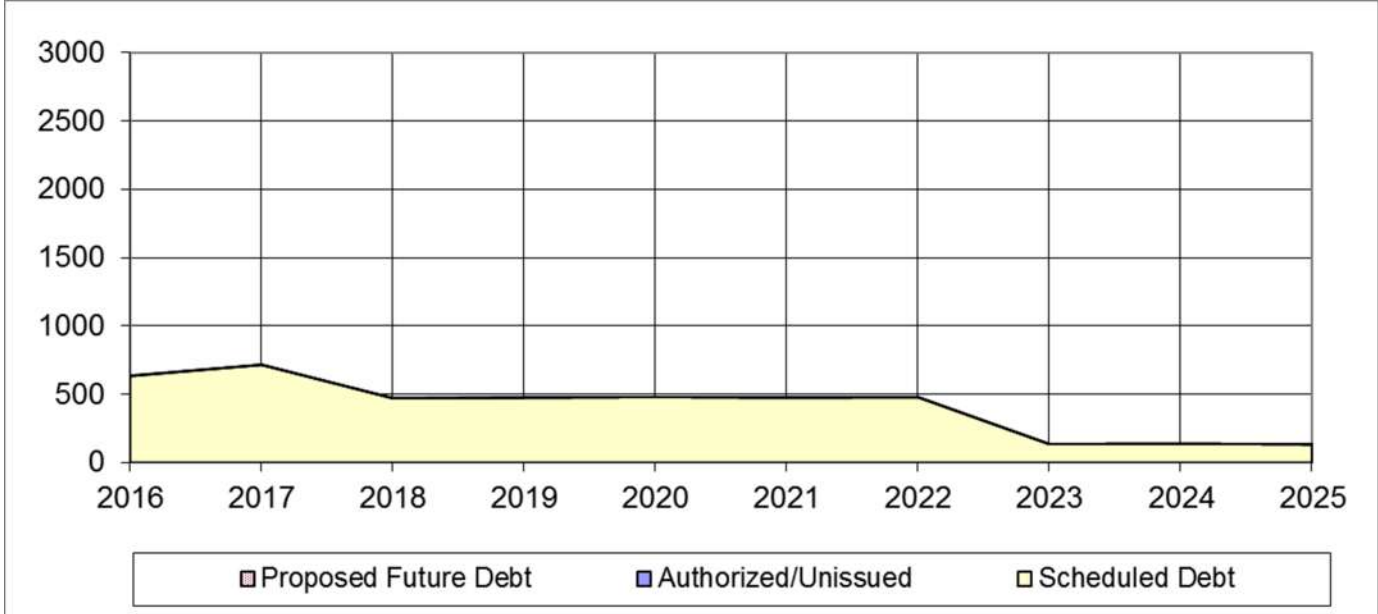
SPECIAL FUNDS

This section presents proposed and authorized projects in the special funds category. Those funds are the Van Duyn Fund, and the special district funds, which include the Water Fund and the Sewer Fund. A brief description of each fund and its operational purpose, as well as the capital project activity and financing information follows.

Van Duyn Extended Care Fund

For the CIP 2019-2024 there are no proposed capital projects under Van Duyn Fund. There is only some scheduled debt that is left to be paid and will be paid by 2023

**Van Duyn Fund
Scheduled & Estimated Debt Service
2016-2025**



Special Funds

**Van Duyn Fund
Debt Service Summary**

Payments in (\$000's)

	2015	2016	2017	2018	2019	2020	2021	2022
Principal & Interest <u>Scheduled Debt</u>	716	473	475	481	473	764	456	446
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	0	0	0	0	0	0	0	0
<i>Proposed Future Debt</i>								
Total	716	473	475	481	473	764	456	446

	2023	2024	2025	2026	2027	2028	2029	2030
Principal & Interest <u>Scheduled Debt</u>	435	0	0	0	0	0	0	0
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	0	0	0	0	0	0	0	0
<i>Proposed Future Debt</i>								
Total	435	0	0	0	0	0	0	0

	2031	2032	2033	2034	2035	2036	2037	2038
Principal & Interest <u>Scheduled Debt</u>	0	0	0	0	0	0	0	0
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	0	0	0	0	0	0	0	0
<i>Proposed Future Debt</i>								
Total	0	0	0	0	0	0	0	0

	2039	2040	2041	2042	2043	2044	2045	TOTAL
Principal & Interest <u>Scheduled Debt</u>	0	0	0	0	0	0	0	2,101
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	0	0	0	0	0	0	0	0
<i>Proposed Future Debt</i>								
Total	0	0	0	0	0	0	0	2,101

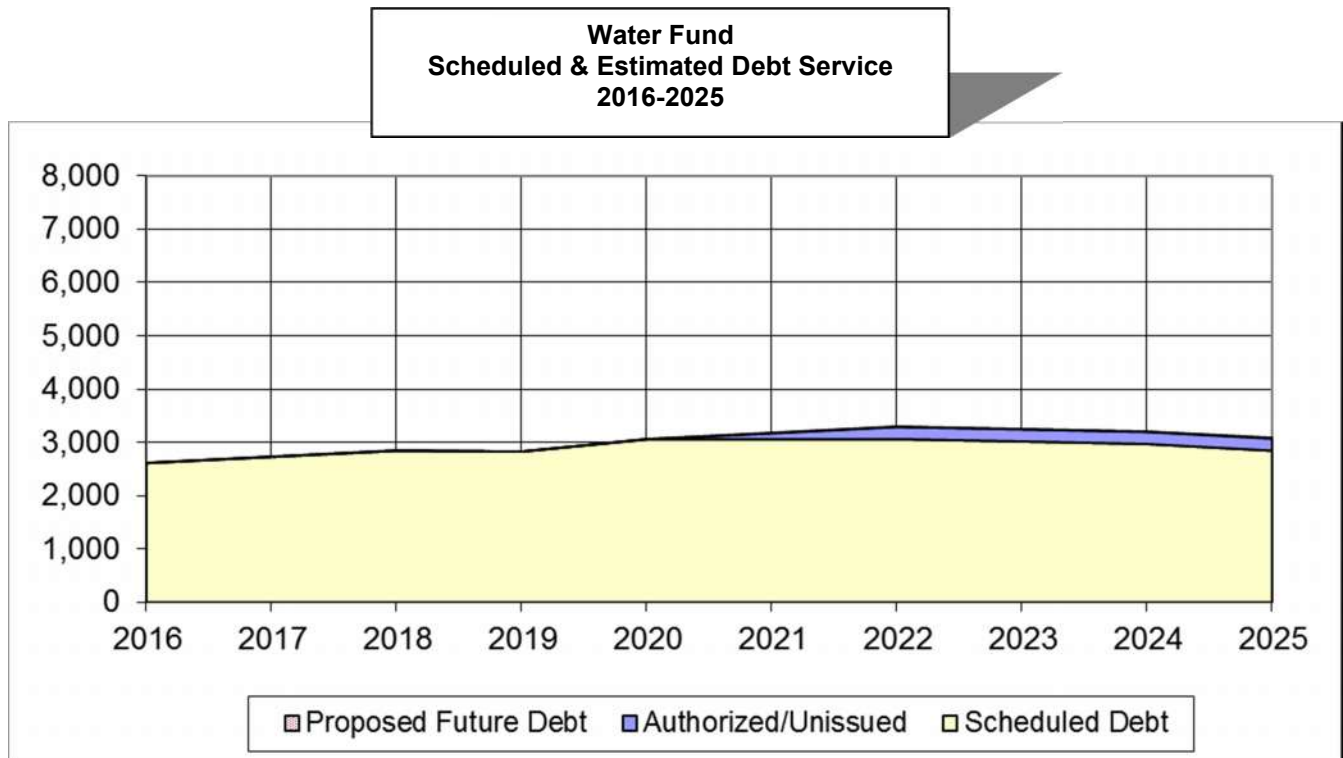
Special Districts

Special districts have been created in Onondaga County to provide water and sewer services for the residents of the districts. These districts have the authority to assess the users for the cost of operations, maintenance and capital projects to maintain the integrity of the operations. Separate funds were created to account for the activities of each district.

Water Fund

The Metropolitan Water Board (MWB) is the administrative body of the Onondaga County Water District (OCWD). Until January 1, 2017, MWB was responsible for operating and maintaining the wholesale drinking water systems and infrastructure from Lake Ontario to the Central New York region, both within and outside of Onondaga County. On January 1, 2017, Onondaga County entered into a Cooperation Agreement with Onondaga County Water Authority (OCWA), which now leases and operate the assets of the OCWD. OCWA is a public benefits corporation under New York State law and was the primary customer of MWB. All MWB employees were transferred to OCWA in accordance with the agreement. Under OCWA, the region continues to be served primarily from Ontario and Otisco Lakes, with a consolidated mission of providing clean, safe, reliable, sustainable, and cost-efficient wholesale drinking water to the Central New York region for public health and economic development benefits, as well as emergency fire response. OCWA currently provides water to homes and industry, hospitals and schools, located in forty municipalities in Onondaga, Oswego, Madison, Oneida and Cayuga counties.

Existing Water Fund debt service will continue to be the responsibility of Onondaga County and revenues used for such debt service will be collected by the County through the Water District's ad valorem assessment, with the remaining funds needed to support existing debt service to be received from OCWA under the Cooperation Agreement. All future maintenance expenditures and capital projects will be funded by OCWA for the 30-year term of the agreement.



Special Funds

**Water Fund
Debt Service Summary**

Payments in (\$000's)

	2015	2016	2017	2018	2019	2020	2021	2022
Principal & Interest <u>Scheduled Debt</u>	2,253	2,613	2,729	2,844	2,829	3,058	3,060	3,063
<u>Estimated Debt</u> Authorized & Unissued	0	0	0	0	0	0	110	226
<i>Proposed Future Debt</i>								
Total	2,253	2,613	2,729	2,844	2,829	3,058	3,170	3,289

	2023	2024	2025	2026	2027	2028	2029	2030
Principal & Interest <u>Scheduled Debt</u>	3,019	2,971	2,846	2,837	2,577	2,532	2,550	2,463
<u>Estimated Debt</u> Authorized & Unissued	226	226	226	226	226	226	226	226
<i>Proposed Future Debt</i>								
Total	3,245	3,197	3,072	3,063	2,803	2,758	2,776	2,689

	2031	2032	2033	2034	2035	2036	2037	2038
Principal & Interest <u>Scheduled Debt</u>	2,438	2,390	2,358	1,550	1,301	908	827	299
<u>Estimated Debt</u> Authorized & Unissued	226	226	226	226	226	226	226	226
<i>Proposed Future Debt</i>								
Total	2,664	2,616	2,584	1,776	1,527	1,134	1,053	525

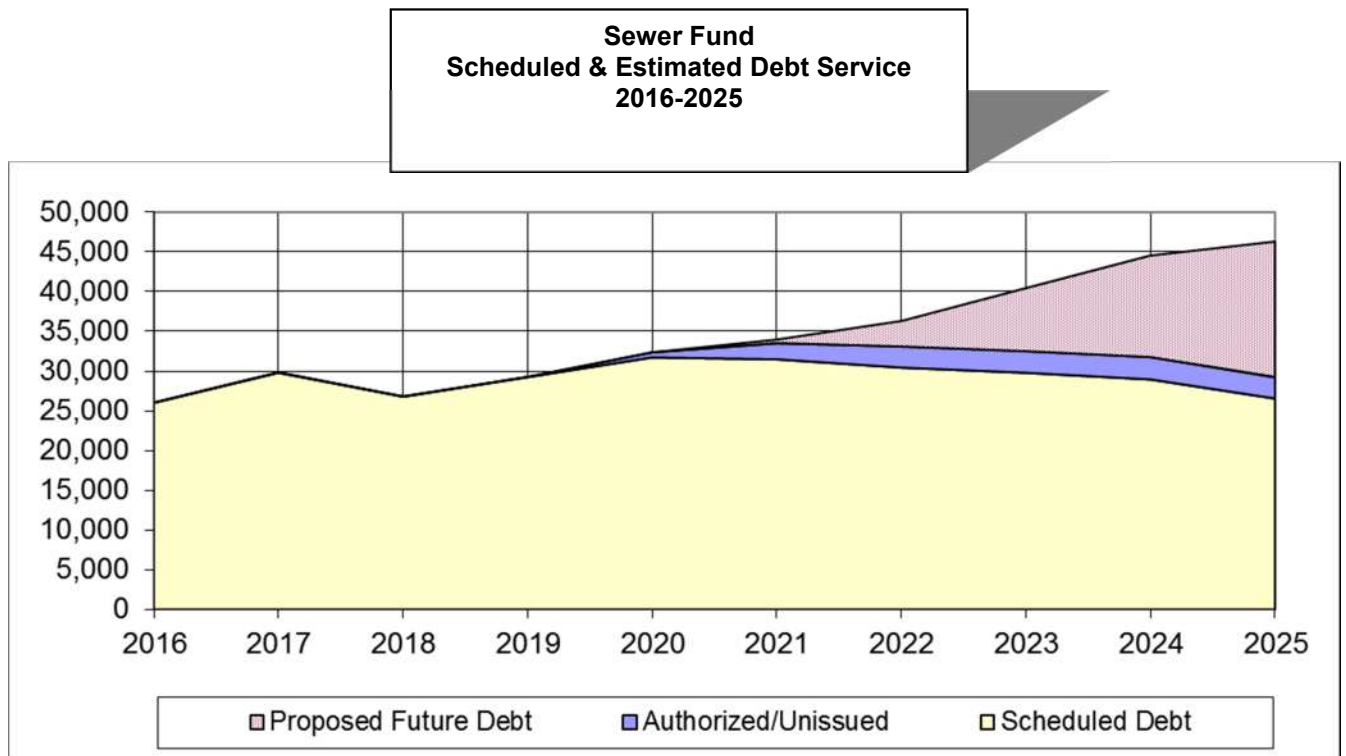
	2039	2040	2041	2042	2043	2044	2045	TOTAL
Principal & Interest <u>Scheduled Debt</u>	157	0	0	0	0	0	0	43,204
<u>Estimated Debt</u> Authorized & Unissued	226	226	0	0	0	0	0	4,404
<i>Proposed Future Debt</i>								
Total	383	226	0	0	0	0	0	47,608

Sewer Fund

The County Legislature established the Onondaga County Consolidated Sanitary District in 1978 by consolidating all the various sanitary districts within Onondaga County. They established a sewer rent schedule to defray all costs of operation, maintenance, indebtedness, and all other obligations of the Water Environment Protection operations to be allocated on the basis of unit charges. The commercial/industrial and institutional property units are based on one hundred forty thousand gallons of water use per unit.

The Department of Water Environment Protection also operates and maintains flood control facilities within four special drainage districts: Bear Trap-Ley Creek; Bloody Brook; Harbor Brook and Meadowbrook. The special districts were created in order to address flooding problems that crossed multi-municipal boundaries. Taxable properties within each of the districts are assessed a drainage district tax for operations and maintenance, plus debt service.

Current and proposed future debt service obligations for the Department of Water Environment Protection are shown in the graph and the debt service summary on the next page.



Special Funds

**Sewer Funds
Debt Service Summary**

Payments in (\$000's)

	2015	2016	2017	2018	2019	2020	2021	2022
Principal & Interest <u>Scheduled Debt</u>	30,644	26,008	29,794	26,802	29,245	31,720	31,483	30,440
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	0	0	0	0	0	637	2,012	2,681
<i>Proposed Future Debt</i>	0	0	0	0	0	0	416	3,166
Total	30,644	26,008	29,794	26,802	29,245	32,357	33,911	36,287

	2023	2024	2025	2026	2027	2028	2029	2030
Principal & Interest <u>Scheduled Debt</u>	29,781	28,948	26,543	25,948	24,696	23,024	22,007	21,658
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	2,752	2,817	2,659	2,598	2,592	2,568	2,568	2,568
<i>Proposed Future Debt</i>	7,903	12,776	17,062	20,854	22,081	21,592	21,107	20,618
Total	40,436	44,541	46,264	49,400	49,369	47,184	45,682	44,844

	2031	2032	2033	2034	2035	2036	2037	2038
Principal & Interest <u>Scheduled Debt</u>	20,698	19,612	18,830	17,925	17,003	15,407	12,923	12,054
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	2,568	2,568	2,568	2,568	2,497	2,497	2,497	2,497
<i>Proposed Future Debt</i>	20,132	19,643	19,156	18,267	17,396	16,537	15,691	15,258
Total	43,398	41,823	40,554	38,760	36,896	34,441	31,111	29,809

	2039	2040	2041	2042	2043	2044	2045	TOTAL
Principal & Interest <u>Scheduled Debt</u>	7,835	5,464	5,410	5,350	5,278	5,210	0	465,247
<u>Estimated Debt</u>								
<i>Authorized & Unissued</i>	2,497	1,291	131	86	3	0	0	50,720
<i>Proposed Future Debt</i>	14,826	14,398	13,964	13,136	10,347	7,154	4,470	367,950
Total	25,158	21,153	19,505	18,572	15,628	12,364	4,470	883,917

AUTHORIZED PROJECTS

WATER ENVIRONMENT PROTECTION

Brewerton WWTP Asset Renewal Improvements

Project On-going

An evaluation of the overall infrastructure condition of the Brewerton WWTP was completed in October 2014 which identified necessary repairs, replacement needs, and modifications necessary so that the WWTP maintains compliance with NYSDEC SPDES permit limits and comes into compliance with applicable building and fire codes. Various CIP (5-year) cycles and plans were included in the final report. The project described herein is for Phase I improvements. This Phase I project will maintain the facility's asset value and reliable operation into the foreseeable future. Ancillary benefits will include energy efficiency gains via installation of modern and more efficient equipment.

The significant components of the current 5-year CIP (Phase I) project include the following:

Energy use improvements to sludge re-aeration tanks, mixed liquor tanks and digester tanks via installation of new turbo blowers.

Energy use improvements to existing grit tank via installation of new positive displacement blowers.

Installation of new fine bubble diffuser system in sludge re-aeration tanks.

Relocation of all new blowers to outside locations in heated and sound proof enclosures.

Replacement of various aging and outdated programmable logic controllers (PLC's).

Replacement of aging variable frequency drives (VFD's) for raw pumps and return activated sludge pumps.

Supervisory control and data acquisition (SCADA) programming for all new PLC's.

Replacement sodium hypochlorite chemical bulk storage tanks.

In-kind replacement of the grit system in Raw Sewage Pumping Station (RSPS).

Rehabilitation of special manhole #1, including influent sluice gate replacement.

Replacement of isolation gates for screen rake/grit chamber bypass channel in RSPS.

Site security improvements to exterior fencing, surveillance monitoring, and alarms.

Fire alarm improvements for code compliance.

Site lighting improvements and enhancement to public address (PA) system.

Replacement of plant water piping and hydrants.

Control Building improvements to include restrooms, office and laboratory.

Heating and ventilation air conditioning improvements throughout Control Building.

Replace all exterior doors and overhead doors for all buildings.

Masonry repair and sealant joint replacement.

Replace lightning protection system.

Odor control upgrades to include new carbon odor control system.

Rehabilitation/lining of the mixed liquor effluent channels.

Replace both tepid eyewash and deluge shower stations in rotary drum thickener area and chemical bulk storage area for safety.

All exterior process tanks and associated walkways to have railings replaced and kick plates added as needed for safety.

Installation of personnel retrieval systems for all tanks, (14) fourteen total - for safety.

Roof replacement for the Control Building.

Arc flash analysis for code compliance and safety.

Cash funding for engineering design, in the amount of \$1.5 million, was procured for this project. Bonding resolution #18187R of December 2018, in the amount of \$12.575 million, was for construction.

Final design has been completed. Construction is expected to start circa in August 2019 and be completed November 2020.

Hiawatha Trunk Sewer Service Area Improvement Project

Project On-going

The Hiawatha Trunk Sewer was installed by the City of Syracuse in the late 1920's and ownership was transferred to Onondaga County in the early 1970's. The original sewer was installed to provide service to the factories, businesses and homes located in the Inner Harbor area. The Hiawatha Trunk Sewer consists of approximately 4,600 linear feet of reinforced concrete sewer pipe ranging from 33 to 36-inches in diameter. This project will provide adequate sewerage service to the businesses and residences that are constructed as part of COR Inner Harbor Development, Destiny USA expansion and other economic development projects located in Syracuse New York. This infrastructure is a vital part of the revitalization of the Inner Harbor and north side of Syracuse.

Special Funds

Project was authorized on 12/02/2014 by the County Legislature. Grant funding in the amount of \$960,000 was awarded to Onondaga County by New York State Empire State Development in December of 2014. In February 2015, the County Legislature authorized acceptance of grant funds. \$4.8 million was authorized for construction spending. Approximately \$2.5 million dollars were spent in 2015 rehabilitating the Hiawatha Trunk Sewer using trenchless technology using the contractor selected under the blanket contract for these services. The sewer lining portion of the project was completed in November of 2015. The Department received authorization to proceed from Empire State Development to qualify for the grant funding. The remaining project balance will be used to construct the sanitary sewer force main over the NYS Barge

Meadowbrook-Limestone WWTP Disinfection System and Collection

Project On-going

Bonding authorized the construction of various improvements to the Meadowbrook Limestone WWTP in order to meet new NYSDEC SPDES permit limits which are effective May 2018. Additionally, the project includes needed improvements to replace aging equipment, improve control and security systems, and maintain building infrastructure at the wastewater treatment plant. The main improvements include the following.

1. Upgrade to the clarifiers to replace the mechanisms, and concrete repair.
2. Improvements to the existing clarifier tank drains.
3. Replacement of the existing scum pumps.
4. Replacement of the existing coagulant feed system.
5. Upgrades to the polymer feed system.
6. Installation of a fiber optic network for control.
7. Supervisory control and data acquisition (SCADA) system control improvements.
8. Unit heater replacements.
9. Implementation of security improvements.
10. Building roof replacements.
11. Replacement of Influent Building make-up air unit.
12. Replacement of electrical transformers.
13. Other necessary improvements.

Cash funding for engineering design, in the amount of \$1.0 million, was procured for this project. Bonding resolution #17018A of March 2017, issued for \$11,725,000, is for construction. The construction project started in September 2017. Construction of the disinfection system was completed in compliance with the SPDES permit mandates. Final project completion is expected in June 2019. As of April 2019, approximately \$9.9 million has been spent for this project. It is expected that a total of approximately \$10.1 million will be spent on the project.

Meadowbrook-Limestone WWTP Inflow & Infiltration Abatement

Project On-going

This project is being undertaken in response to a Sewer System Evaluation Survey (SSES) conducted in 2002 and recently updated by GHD which identified areas where the inflow and infiltration of storm water and groundwater into the sanitary sewer system was compromising treatment at the Meadowbrook-Limestone WWTP. The extraneous flows have frequently caused the plant to exceed its SPDES permit limits during periods of wet weather, resulting in violations cited by the DEC. Due to the recurrence of these flow violations, the DEC has indicated that a Consent Order is forthcoming. The work to be performed involves sewer and manhole replacement and rehabilitation, and possible catch basin disconnection. Bonding for this project was authorized in October 2018 (BR #113) in the amount of \$9 Million. A consultant was selected in early 2019 to develop a work plan to identify priority areas and to direct the County term services contractor to execute the I/I reduction work.

Metro WWTP Phosphorus Treatment System Optimization

Project On-going

Bonding authorized the engineering and construction of improvements to the Metropolitan Wastewater Treatment Plant's phosphorus treatment system. This project is the result of a phosphorus treatment optimization analysis required by the Amended Consent Judgment (ACJ) to ensure the continuation of high level of phosphorus treatment at the Metro facility. The modifications included in the project will promote conditions that lead to improved treatment performance and reliability, thus meeting the regulatory goals for phosphorus loads entering Onondaga Lake. Specifically, the following improvements will be made to Metro's phosphorus treatment system.

- Addition of a polyaluminum chloride feed system.
- Replacement of the existing ferric chloride feed system.
- Installation of new baffles in high rate flocculated settling (HRFS) influent boxes.
- Replacement of slide gates.
- Replacement HRFS sludge piping.
- Installation of an isolation wall in cross channel.

Special Funds

Replacement flow meters.

Modify programmable logic controller (PLC) and supervisory control and data acquisition.(SCADA) systems.

Replacement of ultraviolet system control weir.

Installation of a new bypass tank outfall conveyance.

Miscellaneous structural rehabilitation.

Bond resolution #223 of December 2012, for \$2.84 million, was for engineering design of phosphorus treatment system improvements at the Metro Wastewater Treatment Plant.

Bonding resolution #17016A of March 2017, for \$21.355 million, was for construction.

Construction started in October 2017 and is expected to be completed in circa July 2019. As of April 2019, approximately \$14.2 million has been spent on this project. It is expected that a total of approximately \$14.7 million will be spent on the project.

Metropolitan (Metro) Wastewater Treatment Plant - Thickener

Project On-going

The Thickener Complex at the Metro WWTP, constructed in 1978, requires process equipment replacement, rehabilitation, and modifications to extend the life of the Thickener System for an additional 25-30 years. This project serves to address this requirement through structural, mechanical, HVAC and electrical improvements associated with the Thickener Complex.

The following improvements are included in the project:

Replacement of thickener feed wells, sludge boxes, center columns, drive mechanisms and associated equipment.

Replacement of deteriorated influent channels.

Replacement of thickener effluent weirs, scum baffles and effluent troughs of each thickener with FRP weirs, baffles, and troughs.

Replacement of sludge collector and scrapper system of each thickener.

Replacement of scum pumps, scum house sump pumps, and associated piping valves and appurtenances.

Removal and replacement of an air compressor, pulsation dampeners, sump pump, and effluent water line.

Replacement of electrical grounding and lightning protection systems for safety.

Installation of a new tanker truck unloading station for system efficiency and reliability.

HVAC improvements including replacement of unit ventilator, condensate receiver, unit heaters, roof exhaust fans, steam piping, condensate lines and associated valves.

Supervisory Control and Data Acquisition (SCADA) programming and instrument control upgrades.

Structural improvements, various concrete repairs, repair and replacement of railings, replacement of carbon steel bridges and grating, replacement of doors, installation of railings and kick plates, rehabilitation of exterior building brick façade, and removal and replacement of existing concrete coating systems.

Ancillary civil, electrical and mechanical improvements.

Cash funding for engineering design, in the amount of \$450,000, was procured for this project. Bonding resolution #18185R of December 2018, for \$3.73 million, was for construction. Design is expected to be complete in circa June 2019. Construction is expected to start circa December 2019 and be completed December 2020.

Metropolitan (Metro) Wastewater Treatment Plant - Phase II Digester

Project On-going

The Metro WWTP Digester Complex was originally constructed in 1959 and serves as the solids disposal facility for five of the County owned wastewater treatment plants. Here, bio-solids are brought to the facility via tankers to be processed through anaerobic digestion. The Digester complex consists of 3 primary digesters (1, 2, and 3) and a secondary digester/gas holder (Digester 4). Each primary digester can hold approximately 1.8 million gallons; the secondary digester can hold 1.6 million gallons.

Phase II improvements serve as asset renewal and operational efficiency measures in accordance with the department's mission, vision, and asset management program. The main elements of Phase II improvements include the following:

Cleaning of all four digesters.

New fixed cover and mixing system for digester #4 for safety and operations effectiveness.

New gas bubble(s) storage system for methane gas.

Replacement of the three (3) sludge heat exchangers.

Replacement of three (3) sludge recirculation pumps.

Replacement of three (3) hot water heat exchangers along with associated insulation.

Replacement of the three (3) digester waste gas burner systems based on new configuration of Digester No. 4 and new gas storage system.

Replacement of the five (5) gas compressors which supply biogas for the Cannon mixer system.

Replacement of the current sludge transfer system.

Replacement of various valves, pumps, and piping.

Replacement of the gas flaring system for safety.

Special Funds

Repair of all cracked and spalled concrete pilasters and other concrete repairs to 60-year old tanks.

Installation of two new cogeneration units to convert excess methane gas into electricity which will subsequently be used at the Metro WWTP. Moreover, the "waste" heat generated from cogeneration units will be used to supplement digester heating requirements. The installation of the cogeneration units will reduce greenhouse gas emissions via beneficial use of methane gas and the system's waste heat. It is noted that the department has been awarded a 50% matching grant (maximum reimbursement value of \$1.3 million) from Department of Environmental Conservation (DEC) Office of Climate Change (OCC) via 2017 Climate Smart Communities Grant Program; part of NYS Environmental Protection Fund. With this grant the new cogeneration units would have an expected payback period of seventeen years. Cash funding for engineering design, in the amount of \$1.2 million, was procured for this project.

Bonding resolution #19006 of January 2, 2019, for \$27.68 million, was for construction. Design is expected to be complete in circa May 2019. Construction is expected to start circa December 2019 and be completed December 2021.

Metropolitan WWTP Bio-solids Drying System

Project On-going

The Metro WWTP produces approximately 37,000 wet tons of dewatered sludge at 30% solids per year. With a transportation and disposal cost of \$77.50 per wet ton, that equates to over \$2.8 million per year on landfill spending. The amount of water content in the bio-solids has a direct effect on the disposal costs. The current bio-solids disposed consist of 30% solids and 70% water. The more water that can be removed from the bio-solids, the less expensive it will be to dispose of. As part of a NYSERDA Flextech Study completed in 2016, WEP and their contracted consultant explored the concept of installing a bio-solids dryer to reduce the water content of the sludge. At that time, bio-solids disposal costs were around \$50/wet ton, which resulted in a greater than 20-year payback. As such, the project was not pursued any further.

Recent dramatic changes in the bio-solids disposal marketplace have caused this project to be re-evaluated. Combined with the recent evolution of bio-solids drying technology, the project now is proposed to have an acceptable (8.1 - 11.1 year) payback period. Specifically, it is anticipated that by increasing the dryness of the bio-solids to approximately 90%, the transport and disposal costs are expected to be reduced by \$1.9 million per year, with net annual savings of \$1.4 million per year (after debt service and O&M costs of the dryer and related infrastructure). Savings calculations include a service contract for \$60,000 per year, which includes annual parts and consumables and quarterly inspections by the manufacturer. The proposed project includes a bio-solids dryer system, a building to house the dryer system, a control room and electrical room, and storing of solids at the Metro WWTP site. Additional infrastructure includes the extension of utilities, construction of odor control systems, and a materials handling system. The project is being proposed as a design-build project under the NYS Energy Law.

Bonding resolution #18189A of December 2018, for \$15.106 million, was for the entire design-build project. Design is expected to begin circa June of 2019 and be completed August 2020. Construction will follow shortly thereafter.

Oak Orchard WWTP Disinfection and Lagoon Cleaning

Project On-going

Bonding in the amount of \$11,540,000 was issued in December 2017 for construction of disinfection system improvements in accordance with a renewed NYS State Pollutant Discharge Elimination System (SPDES) Discharge Permit issued June 2014 by the New York State Department of Environmental Conservation (NYSDEC). Bonding also authorized cleaning and dredging of the two onsite lagoons.

Bonding resolution #17199917C of December 2017, for \$11.54 million, was for construction. Final project completion is expected in December 2019. As of April 2019, approximately \$4.9 million has been spent for this project. It is expected that a total of approximately \$11.1 million will be spent on the project.

Oneida Lake PS

Project On-going

This project is for the rehabilitation/upgrades to the Oneida Lake Pump Stations and associated sewer force mains, including Harbor Village, Long Point, Maple Bay, Muskrat Bay, Polar Beach, Shepard Point, and South Bay. In 2012, \$2 million in bonding was approved. In 2015, an additional \$8.12 million in bonding was approved, resulting in a total authorized bonding amount of \$10.12 million (BR #212). As of May 2019, approximately \$9.6 million has been expended. The remaining project balance is \$295,833.

Onondaga Lake Improvement Project

Project On-going

This project results from the settlement of suits brought by Atlantic States Legal Foundation (ASLF) and the State of New York. The County, ASLF and New York State signed the agreement in August and September 1997. On January 20, 1998, the District Federal Court signed the order. This court order is referred to as the Amended Consent Judgment, or ACJ. The ACJ ordered improvement to the Metro Wastewater Treatment Plant (WWTP), CSO abatement facilities, and water quality monitoring over the twenty years ACJ was estimated to cost \$703 million (in today's dollars). The fourth stipulation of the

Special Funds

ACJ was effected in November of 2009. The Amended Consent Judgment (ACJ) and associated stipulations include several components or categories:

Interim capital improvement projects at Metro WWTP

Major capital projects at the Metro WWTP

Interim Combined Sewer Overflow (CSO) abatement projects

Major Combined Sewer Overflow (CSO) abatement projects

Separation of combined sewers in specified areas

Water quality monitoring of the lake, tributaries and Seneca River (non-capital) - Green Infrastructure projects for CSO abatement.

The following projects are complete:

Aeration System Upgrade (7/1/98-1/15/00 for \$6.9M)

Ammonia Removal Demolition (6/1/98-12/31/99 for \$1.3M)

Digester Mod/Chemical Storage and Feed System Upgrade (11/9/98-10/1/00 for \$5.1M)

Digital Systems Improvements (5/1/98-6/30/01 for \$3.5M)

Stage III Ammonia/Stage II Phosphorus Removal (5/1/01-04/30/05 for \$129M)

Franklin Street FCF (4/30/99-5/1/00 for \$4.9M)

Hiawatha RTF (10/1/98-12/31/00 for \$9.4M)

Kirkpatrick Street Pump Station and Force Main (5/15/01-6/30/02 for \$12.6M)

Teall Brook FCF (5/1/01-4/31/02 for \$1.2M)

Newell Street RTF/Demolition (8/3/98-3/11/02 for \$.5M)

Onondaga Creek FCF (5/1/01-7/31/02 for \$.7M)

West Street Sewer Separation (5/1/99-12/15/99 for \$2.7M)

Erie Boulevard Storage (3/1/01-7/31/02 for \$2.7M)

Bio-solids Handling Improvements (1/1/04-6/30/07 for \$14.8M)

Harbor Brook In-stream FCF (10/31/00-7/31/02 for \$.9M)

Advanced Phosphorous Removal Pilot phase I, II & III (2/1/00 for \$4.1M)

Clinton Storage

Lower Harbor Brook Conveyances and Storage

Sewer Separation 022/045

Midland 044 Conveyances.

Projects still in progress include:

Metro WWTP Phosphorus Optimization

In accordance with the ACJ 4th Stipulation, Phosphorus Work plan and Optimization reports have been completed for the Metro WWTP. The work plan has been approved by the NYSDEC; no further capital work is projected. The NYSDEC has also approved the Metro WWTP Phosphorus Treatment Optimization report. That report identified a number of infrastructure improvements needed to ensure continued and consistent compliance with Metro's SPDES phosphorus limits. Improvements include: installation of two new isolation gates and a dividing wall to isolate the north and south biological aerated filter cells; chemical addition and mixing; replacement of various gates; and other associated treatment system improvements. The final design of those improvements was approved by the New York State Department of Environmental Conservation in April 2017. Construction was started in October 2017 and is scheduled to be completed in July 2019. As of April 2019, \$14.2 has been spent on this project.

Midland Avenue Conveyances and RTF, Storage and Green Infrastructure (5/01/00-12/31/18 for \$131.9M) This project was completely authorized in October 2016.

The following CSO's have been evaluated in a facilities plan to determine how best to abate their overflows: 060/077 (West Colvin) and 052 (Hunt and Elmhurst). The remaining CSO's 076 (Brighton and Midland), and 067 (West Newell) will be abated by using green infrastructure, implementing floatable control (where warranted), monitoring and eventual closure. Green infrastructure will be implemented where appropriate throughout the Midland sewer shed to reduce the volume of storm water entering the combined sewer system.

Sewer Separation Continuous (1/1/12 for \$24.1M – Ongoing) This project was completely authorized in July 2010. In 2016, a green scope was added to this project.

Clinton CSO Abatement and Green Infrastructure (5/1/04-12/31/18 for \$185.5M – Ongoing) This project was completely authorized in December 2013. Construction of a new 6.5 million gallon storage facility in the Trolley Lot located near Armory Square has been completed. The facility collects all CSO discharges from the Clinton sewer shed with the exception of 027 (West Fayette), and 029 (Walton St.). The remaining CSO's were evaluated in a facilities plan to determine how best to abate their overflows. Green infrastructure will be implemented where appropriate throughout the Clinton sewer shed to reduce the volume of storm water entering the combined sewer system. Harbor Brook CSO Abatement Storage & Green Infrastructure (11/18/01-12/31/18 for \$108.5M) This project was completely authorized in October 2016.

Special Funds

Suburban I/I Reduction - Green and Innovative Improvements

Project On-going

Green infrastructure has been recognized as a viable and cost effective alternative for abating infiltration and inflow. Individual green, innovative and other projects will be developed and subsequently authorized by the County Legislature on a per project basis. The projects will focus on municipal (public) installations of green infrastructure such as bio-swales, rain gardens, and green streetscapes as well as innovative projects. Green infrastructure and innovative improvement projects will be designed to reduce infiltration and inflow into sanitary sewer systems - in compliance with the recently enacted Capacity Management and Operation and Maintenance (CMOM)/Sewer Use Ordinance (SUO) passed in January 2011.

Projects utilizing green infrastructure will be considered from the following towns: Camillus, Cicero, Clay, DeWitt, Geddes, Lysander, Manlius, Onondaga, Pompey, Salina and villages: Baldwinsville, Camillus, East Syracuse, Fayetteville, Liverpool, Manlius, North Syracuse, and Solvay. It is expected that this project will go on for several years. Project scopes will evolve over time as new green infrastructure technologies are developed and implemented. The Suburban I/I Reduction - Green and Innovative Improvements project has been very successful to date; it is expected that this success will continue for future years.

Bonding for this project was authorized as follows: 2012 in the bonded amount of \$3 million (BR #12115), 2013 in the bonded amount of \$2 million (BR #13135); in 2015 for \$1.98 million in bonds (BR #127); and in 2018 in the amount of \$500,000 in cash.

Westside Pumping Station Service Area

Project On-going

The funds for this project totaling \$18,150,000 are fully authorized by the County Legislature (BR # 82).

The goal of this project is to implement conveyance system improvements at Westside Pumping Station and tributary sewer conveyances and pumping facilities in order to reduce extraneous flows (i.e., infiltration and inflow), eliminate sanitary sewer overflows, provide for future capacity and eliminate odors. Project is on schedule to be completed by the end of 2019. The construction is roughly 99% complete as of May 2019. Approximately \$14.8 million dollars has been expended through May 2019.

The remaining project balance is \$2.57 million.

Major elements have been completed and the project has entered the punch list phase. Project will be completed within the authorized budget.

Special Funds

SPECIAL DISTRICTS PROPOSED PROJECTS SUMMARY

Special Funds

Department	STATUS	PROJECT	2020 - 25 Total
Sewer			
WATER ENVIRONMENT PROTECTION			
		Baldwinsville Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improvements	39,504
		Camillus Force Main Replacement	6,500
new		Combined Sewer Overflow 029 Walton Street Abatement Project (NEW)	2,020
new		Combined Sewer Overflow 067 Abatement Project (NEW)	16,900
new		Davis Rd Pump Station and Forcemain Improvements (NEW)	5,995
		Energy Efficiency Improvements/Performance Contracting	25,250
		Harbor Brook Miscellaneous Culvert and Channel Improvements	500
		Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project	17,300
new		Metro WWTP 1978 Plant Annex Asset Renewal (NEW)	48,500
		Oak Orchard WWTP Secondary Clarifier Rehabilitation	7,618
new		Sewer Consolidation (NEW)	90,000
new		Route 481/298 Industrial Corridor Sewer Improvements (NEW)	6,000
		Wastewater Transportation System Improvements	63,287
Sewer Total			\$ 329,374
Special Funds Total			\$ 329,374

SPECIAL DISTRICTS FUNDING SOURCES

Sewer

SOURCE OF FUNDS	2020	2021	2022	2023	2024	2025	6yr Total
Pay as You Go	6,075	8,160	8,095	6,655	6,475	8,650	44,110
Authorized Borrowing	9,520	11,847	850	105	200	200	22,722
Borrowing to be Authorized	7,930	47,443	61,142	53,007	49,020	44,000	262,542
SUB TOTALS	\$23,525	\$67,450	\$70,087	\$59,767	\$55,695	\$52,850	\$329,374

SPECIAL DISTRICTS ESTIMATED DEBT SERVICE

Estimated Debt Service

Payment Schedule (\$ in 000's)

WATER ENVIRONMENT PROTECTION

	2020	2021	2022	2023	2024	2025
Sewer Consolidation (NEW)	0	0	315	1,298	2,667	4,154
Metro WWTP 1978 Plant Annex Asset Renewal (NEW)	0	0	53	222	1,123	2,453
Davis Rd Pump Station and Forcemain Improvements	0	0	126	393	505	495
Route 481/298 Industrial Corridor Sewer Improvements	0	0	210	445	503	493
Combined Sewer Overflow 067 Abatement Project (NEW)	0	0	341	736	1,049	1,266
Combined Sewer Overflow 029 Walton Street Abatement	0	53	139	170	166	163
Ley Creek/Liverpool Force Main	0	0	79	204	511	959
Harbor Brook Miscellaneous Culvert and Channel	0	0	0	26	43	42
Camillus Force Main Replacement	0	0	105	301	426	448
Oak Orchard WWTP Secondary Clarifier Rehabilitation	0	0	142	443	571	559
Energy Efficiency Improvements/Performance Contracting	0	0	0	210	750	1,276
Baldwinsville Seneca Knolls WWTP Disinfection and	0	363	1,290	2,415	3,051	3,139
Wastewater Transportation System Improvements	0	0	366	1,040	1,411	1,615
Department Total	0	416	3,166	7,903	12,776	17,062

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Baldwinsville Seneca Knolls WWTP Disinfection and Phase II Asset Renewal Improvements

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Federal/State Mandate

Level of Development: Advanced

Project Description:

The Baldwinsville-Seneca Knolls Wastewater Treatment Plant was issued a renewed SPDES Discharge Permit in June 2014 by the New York State Department of Environmental Conservation (NYSDEC) which included modifications to the effluent total residual chlorine (TRC) limit from 2.0 mg/L to 0.08 mg/L. The new TRC permit limits became effective May 15, 2018. The disinfection portion of this project has been completed in accordance with the SPDES permit. Additionally, the plant is over thirty-seven years old. Various small and discrete improvements and repairs have been done to the facility as a means of operational enhancements and infrastructure maintenance. However, there is a contemporary need to implement a robust infrastructure renewal project for many of the treatment plant's assets so as to ensure continued satisfactory operation and extend its service life. This project is for Phase II asset renewal improvements and odor control improvements. Additional work is also being pursued for rehabilitating the primary and secondary clarifier tanks as a next phase of the asset renewal program.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	6,920	13,363	13,390	4,507			38,180	38,180
Pay as You Go	1,150							0	1,150
Authorized Borrowing	3,856	575	600	144	5			1,324	5,180
TOTALS	5,006	7,495	13,963	13,534	4,512			39,504	44,510

Project Detail and Status:

The disinfection/dechlorination portion of this project provided for an upgrade to the facility's disinfection system so as to comply with new DEC SPDES permit limits. Specifically, additional process tankage and a dechlorination system was installed downstream of the existing chlorination system, along with ancillary improvements. Construction of disinfection improvements has been completed in accordance with SPDES due date.

The ongoing project is for the design and construction of what is known as Phase II improvements as identified in the engineering evaluation completed in June 2014 for the facility. The majority of the improvements, largely consisting of asset renewal measures, include the following elements: grit processing equipment, chemical tanks, concrete structures, aeration systems, aerobic digesters, life safety, major mechanicals, fire alarm system, odor control, code compliance, water supply systems, energy conservation measures, and other necessary asset renewal measures. The Phase II asset renewal design is expected to be completed by February 2020, with construction starting in August 2020 and being completed in August 2022. The project is also being expanded via pursuit of rehabilitating the primary and secondary settling clarifier tanks as a next phase of the asset renewal program.

Bonding in the amount of \$3.4 million was authorized in December 2, 2014 (BR-226) for the engineering design phase for disinfection and Phase II asset renewal. Bonding in the amount of \$1.8 million was authorized in February 7, 2017 (BR-13) for the construction of the disinfection improvements project; additional bonding in the amount of \$1.1 million was authorized in July 5, 2017 (BR-99) for construction (resulting in a total amount of \$2.9 million).

It is expected that legislative approval will be sought in October 2019 for \$30,280,200 in bonding for the Phase II asset renewal construction portion of this project along with \$1,000,000 for design of the rehabilitation to the aforementioned clarifier tanks; for a total request of \$31,280,200. It is anticipated that legislative approval will be sought in October 2021 for approximately \$6.9 million in bonding for construction of the clarifier rehabilitation project component.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Camillus Force Main Replacement

Purpose: Public/Employee Safety/Health, Maintain Existing Investment

Level of Development: Intermediate

Project Description:

Replacement of a 24 inch diameter 7 mile long wastewater pipeline.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0		2,000	2,500	900			5,400	5,400
Authorized Borrowing	3,000	500						500	3,500
Pay as You Go	0	600						600	600
TOTALS	3,000	1,100	2,000	2,500	900			6,500	9,500

Project Detail and Status:

The 7 mile long 24 inch diameter Camillus force main conveys wastewater from the Town of Camillus and Village of Camillus to the Westside pump station located on the shore of Onondaga Lake. The force main has failed several times over the past 4 years releasing raw sewage to the ground and Nine Mile creek which is a recreational resource in Onondaga County. The length of the force main and the chemical make-up of the wastewater have accelerated the degradation of this asset. An internal assessment of the pipe line using "Smart ball" technology indicated numerous pipe line anomalies that may indicate that the pipe line has a high probability of failure. It is anticipated that the pipe line would be replaced with a plastic pipe that would not be susceptible to chemical attack.

Project will be phased. Phases 1 and 2 have been authorized. Total authorization is \$3.5 million.

It is anticipated that the Department of Water Environment Protection will seek legislative approval in the amount of \$600k in cash for engineering services in September of 2019. It is expected that legislative approval will be sought in October 2020 for the final phase of construction in the amount of \$5.4 million in bonds.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Combined Sewer Overflow 029 Walton Street Abatement Project (NEW)

Purpose: Public/Employee Safety/Health, Maintain Existing Investment, Federal/State Mandate

Level of Development: Intermediate

Project Description:

The Combined Sewer Outfall (CSO) 029 outfall is located on Walton Street adjacent to Onondaga Creek. The CSO outfall is one of the most highly active CSOs in the County owned system discharging 40 times per year. This work is required to meet the requirements of the State and Federal CSO policy.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	1,010	1,010					2,020	2,020
Authorized Borrowing	530							0	530
TOTALS	530	1,010	1,010					2,020	2,550

Project Detail and Status:

The combined sewer overflow (CSO) outfall 029 is located at the bridge where Walton Street crosses Onondaga Creek in the City of Syracuse. This CSO outfall is one of the most highly active CSOs remaining in the County system discharging over 40 times per year. The original facility plan intended the overflow to be conveyed to the Clinton Regional Treatment Facility until the plans were halted due to numerous issues related to constructability and cost. Onondaga County has hired an engineering firm to provide design alternatives to reduce or eliminate discharges from the CSO 029 outfall to 4-6 events per year, additionally this project will improve the hydraulic conditions and further reduce CSO overflow events and volumes at CSO 028. This work is required to meet State and Federal CSO policy requirements. The consultant evaluated 4 different options which included full sewer separation, pipeline installation, installation of a wet weather pumping station and conveyance modifications. The conveyance (pipeline and flow structures) modification alternative appears to be the least disruptive and lowest cost solution to abate the CSO 029 discharges to meet the State and Federal CSO regulatory policy. Engineering for this project was funded through the previously authorized Amended Consent Judgment Clinton CSO Service area project. Project construction costs estimates will be further refined as the project design progresses.

It is expected that Legislative approval for \$2,020,000 will be sought in October 2019. It is anticipated that bidding for construction would occur in 2020 and construction would be completed in 2021.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Combined Sewer Overflow 067 Abatement Project (NEW)

Purpose: Public/Employee Safety/Health, Federal/State Mandate

Level of Development: Intermediate

Project Description:

The CSO 067 outfall is located on Newell Street in the City of Syracuse. This overflow is one of the most active outfalls owned by Onondaga County. This project is required to meet the State and Federal CSO policy.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	0	6,500	3,500	4,000	2,000		16,000	16,000
Authorized Borrowing	420							0	420
Pay as You Go	0	900						900	900
TOTALS	420	900	6,500	3,500	4,000	2,000		16,900	17,320

Project Detail and Status:

The combined sewer overflow (CSO) outfall 067 is located at the bridge where Newell Street crosses Onondaga Creek in the City of Syracuse. This CSO outfall is one of the most active CSOs remaining in the County system discharging over 9 times per year. Onondaga County has hired an engineering firm to provide design alternatives to reduce or eliminate discharges from the CSO 067 outfall to 4-6 events per year in order to meet State and Federal CSO policy requirements,

The following items were evaluated:

- Reduction or elimination of combined sewer discharges
- Permit Compliance
- Constructability
- Capacity management/assurance

The consultant evaluated several options such as full separation, conveyance modification/replacement and installation of additional green infrastructure. It was determined that the conveyance modification/replacement option was the most cost effective due to the age of the infrastructure (1905-1920) in the area. The issues with the CSO discharges could not be effectively mitigated unless the conveyance systems are repaired or replaced. The initial engineering for this project was funded under the previously authorized Midland CSO ACJ project.

It is anticipated that in September of 2019 WEP will seek Legislative authorization for additional \$900,000 in cash that will be used for engineering in 2020. It is expected that WEP will seek authorization for construction spending in late 2020 or early 2021.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Davis Rd Pump Station and Forcemain Improvements (NEW)

Purpose: Reduce Operating Costs/Efficiency, Maintain Existing Investment

Level of Development:

Project Description:

The project includes the replacement of mechanical and electrical equipment, HVAC systems, cranes & hoists, concrete and mortar repair, and other necessary improvements for the Davis Rd Pump Station (PS). The project will also include improvements to the Davis Rd PS forcemain system - with the end result being two separate forcemains.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Pay as You Go	774							0	774
Borrowing to be Authorized	0		2,400	3,595				5,995	5,995
TOTALS	774		2,400	3,595				5,995	6,769

Project Detail and Status:

The Davis Road Pump Station (PS) was put into service circa 1980 after decommissioning of the Davis Rd Wastewater Treatment Plant (WWTP). The Davis Rd PS reused some of the wastewater infrastructure, including the Raw Sewage Building, Control Building and Chemical Building, while others were abandoned in place or removed completely such as the settling tanks. The pump station receives flow from Town of Cicero and the Village of North Syracuse and subsequently pumps flow to Oak Orchard WWTP through two County-owned forcemains 24- inch and 36-inch, respectively.

Davis Road Pump Station has a significant number of assets many of which are reaching the end of their useful life. This project is for the rehabilitation and renewal of assets at the facility and for installation of two new forcemain sections which will allow for two distinct forcemains.

Pump Station Improvements

- Replacement of manual bar rack.
- Replacement of sluice gate.
- Replacement of isolation and check valves for the pumps, including all original installation valve operators.
- Rehabilitation of forcemain pipe header and supports.
- Replacement of mechanical screen rake.
- Replacement of the emergency power generator.
- Replacement of the chemical pump hoist.
- Installation of the tempered eyewash station where there is exposure to harmful substances.
- Replacement of the screen room garage door.
- Other civil, electrical, and mechanical infrastructure rehabilitation measures.

Forcemain System Improvements

A unique feature of the pump station is that it has a combination of single and dual forcemain systems consisting of a 30-inch diameter pipe leaving the station; the splitting into dual forcemains of 24-inch and 36-inch; and the recombining into one 30-inch forcemain. One of the goals of this project is to separate the forcemains and create two fully independent forcemains; this will provide system redundancy. This would require separating the 36-inch or 24-inch pipe from the combined 30-inch pipe at the Davis Road Pump Station and installing a new, appropriately sized pipe. One of the pipes will be disconnected from the 30-inch pipe and a new 450-foot of section will be installed parallel to the existing 30-inch pipe and will connect to the pipe that will be disconnected. The existing 24-inch forcemain that is connected to the Oak Orchard forcemain will be disconnected and will be reconnected to a new 6,000-foot parallel pipe discharging to the Oak Orchard headworks; the 36-inch pipe will remain connected to the existing 30-inch pipe.

Cash funding was previously procured for the engineering portion of this project. It is anticipated that legislative approval for bonding will be sought in October 2020 for construction in the amount of \$5,995,000.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Energy Efficiency Improvements/Performance Contracting

Purpose: Reduce Operating Costs/Efficiency, Other

Level of Development: Intermediate

Project Description:

This project entails working with an energy service company (ESCO, a commercial business providing a broad range of comprehensive energy solutions including designs and implementation of energy savings projects, energy conservation, power generation and energy supply, and risk management) to design and implement various process and infrastructure improvements for energy savings. The project serves to support the County's effort to pursue sustainability, effect the goals of the County's Climate Action Plan, reduce energy usage, and correspondingly reduce annual operating costs.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0			4,000	4,000	4,000	4,000	16,000	16,000
Authorized Borrowing	1,050	2,047	6,722	481				9,250	10,300
TOTALS	1,050	2,047	6,722	4,481	4,000	4,000	4,000	25,250	26,300

Project Detail and Status:

In January of 2016, a New York State Energy Research and Development Authority (NYSERDA) Flextech evaluation was completed for WEP wastewater treatment plants. The evaluation identified several different areas of energy saving opportunities, including, improvements to treatment plant aeration systems, pumping systems, heating and ventilation systems, and other measures. After internal analysis of the evaluation results, the department has identified a number of energy conservation measures (ECMs) for implementation - which collectively have paybacks of less than 20 years. This group of ECMs has been classified as Phase I of this energy efficiency project. Bonding in the amount of \$10,300,000 was authorized in April 2016 for the Phase I component. Phase I specifically includes the replacement of aeration blowers, pumps, aeration mixers, HVAC retro-commissioning, and other equipment at select WEP wastewater treatment plants.

Bonding in the amount of \$10.3 million was authorized in 2016 (BR-16058) for the design-build project. Phase I design started in January 2018 and is expected to be completed by January 2020. Construction is expected to start circa August 2020 and be completed in January 2022.

Phase II of this project, consisting of additional ECMs, is expected to be begin in 2022 and be completed in 2025. Legislative approval for bonding for Phase II would be pursued in October 2021.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Harbor Brook Miscellaneous Culvert and Channel Improvements

Purpose: Public/Employee Safety/Health, Maintain Existing Investment

Level of Development: Advanced

Project Description:

Repair and rehabilitation of 110 year old culvert and channel sections within the Harbor Brook Drainage District. Project would include rehabilitation of the concrete wing walls near Delaware and Amy Streets and rehabilitation of selected culvert sections.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0			500				500	500
Authorized Borrowing	200							0	200
TOTALS	200			500				500	700

Project Detail and Status:

The Harbor Brook drainage channels and culverts were installed in the early 1900's to address flooding and public nuisance issues related to sanitary conditions and flooding. The 100 plus year old infrastructure is beginning to show signs of deficiency. This project will target the most deficient areas for rehabilitation.

Bonding in the amount of \$200,000 was authorized in March 2017 (BR 17 024R). In 2017, approximately \$145,000 was used for the following work: channel headwall repairs, fencing repairs and restoration of erosion areas off Grand Avenue. The remaining balance will be used on miscellaneous channel and fencing repairs.

In October of 2021 an additional \$500,000 in bonding will be requested to continue repairs of the deficient channel section.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Ley Creek/Liverpool Force Main Rehabilitation/Replacement Project

Purpose: Maintain Existing Investment, Federal/State Mandate

Level of Development: Preliminary

Project Description:

Rehabilitation/Replacement of the Ley Creek 42-inch wastewater force main and the Liverpool 18-inch wastewater force main. Both force mains have exceeded their expected service life and have resulted in costly emergency repairs and additional regulatory scrutiny.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Authorized Borrowing	500	800	300	200	100	200	200	1,800	2,300
Borrowing to be Authorized	0		1,500	1,450	5,000	5,550	2,000	15,500	15,500
TOTALS	500	800	1,800	1,650	5,100	5,750	2,200	17,300	17,800

Project Detail and Status:

The 42-inch diameter Ley Creek force main is approximately 11,900 feet long (approx. 2.25 miles) and was constructed in 1967. The 18-inch diameter Liverpool force main is approximately 17,500 feet long (approx. 3.30 miles) and was constructed in 1960. These pipelines serve nearly the entire eastern portion of Onondaga County and support many industrial and commercial entities. The expected service life of a pre-stressed concrete pipe is approximated at 50 years and these pipelines have reached or exceeded their expected service life and need to be replaced or rehabilitated. The Ley Creek force main has failed 3 times in the past 5 years and the Liverpool force main has experienced several significant failures over the past several decades releasing raw sewage into the environment.

In December 2017 the County Legislature (BR #194) authorized \$2.3 Million for Engineering Phase of Ley Creek/Liverpool Force Mains Replacement/Rehabilitation. A consulting engineer will investigate multiple options for replacement or rehabilitation. The investigation will also include evaluation of capacity for future need, land acquisition and the most robust pipe design for the longest service life.

A consulting engineer was hired March of 2019. Construction is expected to begin in 2021.

It is anticipated that legislative approval will be sought in October 2020 for construction in the amount of \$15.5 million.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Metro WWTP 1978 Plant Annex Asset Renewal (NEW)

Purpose: Maintain Existing Investment

Level of Development: Preliminary

Project Description:

Large-scale asset renewal project for numerous improvements to Metro WWTP's 1978 annex infrastructure. Various civil, electrical, mechanical, and other infrastructure rehabilitation and replacement measures to be performed in accordance with an asset management evaluation report.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0	0	1,000	2,600	15,600	15,800	13,500	48,500	48,500
TOTALS	0	0	1,000	2,600	15,600	15,800	13,500	48,500	48,500

Project Detail and Status:

WEP is currently finalizing a comprehensive assessment and evaluation of Metro's 1978 annex infrastructure. The effort is being completed under the auspices of WEP's Asset Management Program which evaluates assets and infrastructure in terms of the likelihood of failure, consequence of failure, and the risk associated with those ratings. Plant areas reviewed include primary clarifier systems, aeration systems, secondary clarifier systems, various building and structures, existing building envelopes, underground galleries and pipe chases, main plant electrical substation, and other infrastructure. In addition to reviewing the conditions and lifecycles of the assets, items such as equipment obsolescence, parts availability, capacity, and energy efficiency are being evaluated.

Asset renewal measures are anticipated to include necessary equipment rehabilitation and/or replacement of mechanical, HVAC, plumbing, electrical systems, and structural and non-structural concrete, building envelopes, tanks, and other infrastructure works so as to extend lifecycles, ensure safe operations, and continued compliance with the facility's regulatory obligations (i.e., NYSDEC SPDES permit).

The resulting report will include recommendations for improvements in 5-yr, 10-yr, and 20-yr capital investment projects cycles. It is anticipated that legislative approval for bonding will be pursued in October 2020 for engineering design of improvements for approximately \$4.8 million.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Oak Orchard WWTP Secondary Clarifier Rehabilitation

Purpose: Maintain Existing Investment

Level of Development: Advanced

Project Description:

The Oak Orchard WWTP has been in operation since 1980. The secondary clarifiers, critical to the successful operation of the plant, are original to the plant and have been identified for asset renewal.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Authorized Borrowing	102	598	225	25				848	950
Borrowing to be Authorized	0		2,706	4,064				6,770	6,770
TOTALS	102	598	2,931	4,089				7,618	7,720

Project Detail and Status:

The OOWWTP secondary clarifier infrastructure is original to the circa 1980 plant. This vital portion of the facility provides solids removal in compliance with NYSDEC SPDES permit requirements. Major components of the mechanical and electrical systems are at the end of their useful life, or beyond, and are in need of replacement. Associated improvements include concrete rehabilitation within the clarifiers and adjoining tanks. As the infrastructure continues to age it puts the facility at increasing risk of violating several permit conditions. This project will aid in continued permit compliance.

The significant project components include the following.

- New motors and drives for the longitudinal and cross collectors for all six (6) clarifiers.
- New chain and flight equipment (sludge collection system) within the six (6) clarifiers.
- Clarifier, plant waste station, and various concrete rehabilitation - including coating and repair of significantly deteriorated concrete.
- Renewal and rehabilitation of scum pit infrastructure.
- Replacement of critical isolation gates and telescoping valves.
- Other civil, mechanical, and electrical infrastructure renewal measures.

Bonding in the amount of \$950,000 was authorized in March 2017 (BR-1720A) for the engineering design phase of this project. Engineering design is expected to be completed circa December 2020. It is anticipated that legislative approval will be sought in October 2020 for construction in the approximate amount of \$6.7 million.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Sewer Consolidation (NEW)

Purpose: Reduce Operating Costs/Efficiency, Federal/State Mandate, Community/Economic Development, Maximize Outside Funding, Addition Capacity, Other

Level of Development: Preliminary

Project Description:

The ultimate end goal of this project is a (service connection to treatment) single service provider who can manage the assets more effectively and efficiently, leverage funding sources and grants to lessen the financial impacts, restore the assets, programmatically over time and remove devastating regulatory violations and compliance orders. This infrastructure investment plan will support future economic development opportunities without the threat of infrastructure constraints.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	0		6,000	15,000	17,000	18,500	24,500	81,000	81,000
Authorized Borrowing	0	5,000	4,000					9,000	9,000
TOTALS	0	5,000	10,000	15,000	17,000	18,500	24,500	90,000	90,000

Project Detail and Status:

The wastewater infrastructure throughout Onondaga County has fragmented ownership structure and many of the satellite communities have deferred rehabilitation and maintenance to a point where we are at a critical point where levels of service may be negatively impacted if significant changes are not implemented. Additionally, this fragmented ownership structure has contributed to placing the County and Satellite municipal publically owned sewer systems in regulatory jeopardy with the USEPA and NYSDEC. The consolidation effort will address the deferred maintenance and regulatory requirements by consolidating control of the assets and investing in this critical infrastructure over time for a more efficient and centralized infrastructure management approach. This effort will take multiple years to complete due to the scale and complexities of the project.

The initial phase of this work will be in the Meadowbrook – Limestone Service Area and will focus on capital projects related to the abatement of infiltration and inflow (I/I), serving as an asset renewal measure and to restore capacity for future economic growth. Bonding in the amount of \$9 million was authorized in November 2018 (BR18113A) for sewer lining and repair, manhole repair and rehabilitation, catch basis disconnection, and other improvements as necessary. A consultant was selected in early 2019 to develop a work plan to identify priority areas and to direct the County term services contractor to execute the I/I reduction work. Finally, a legal consultant was engaged in mid-year 2019 to create an instrument for securing control of the municipal assets. This instrument is now ready to roll out to the local municipalities and will subsequently allow work to begin.

It is anticipated that legislative approval for bonding will be sought in October 2020 for the next phase of work. It is noted that the values listed for Bonding to be Authorized are estimated and will be refined as the project progresses.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Route 481/298 Industrial Corridor Sewer Improvements (NEW)

Purpose: Community/Economic Development, Addition Capacity

Level of Development: Preliminary

Project Description:

Several significant industrial users are located in the vicinity of Fly Road in the Town of DeWitt. The newly constructed wastewater pumping station would provide the necessary capacity to allow these industries to expand in the future.

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Pay as You Go	550							0	550
Borrowing to be Authorized	0		4,000	2,000				6,000	6,000
TOTALS	550		4,000	2,000				6,000	6,550

Project Detail and Status:

The area in the Town of DeWitt east of Fly Road supports numerous industrial users such as Ultra Dairy, Inficon and Fulton Boiler. The sanitary sewer system that serves these industries is at full capacity and will need to be addressed to allow for planned future expansion by Ultra Dairy and potentially others in the area. This proposed project will install a new wastewater pumping station and forcemain that will serve Ultra Dairy and Fulton Boiler and will provide capacity for future expansion. The wastewater will be routed directly to the County owned Franklin Park Trunk Sewer where adequate capacity exists. Right of way acquisitions will be necessary along the planned alignment. Rerouting of the wastewater will also eliminate significant maintenance issues related to the makeup of the industrial discharges from the industries served. The basis of design (BOD) is being advanced in 2019 to meet the aggressive economic development expectations.

The following benefits will be realized by this project:

- Economic development priorities will be met.
- Capacity for future expansion will be provided.

It is expected that WEP will hire a consulting engineer in 2019. WEP will seek bonding authorization from the County Legislature for the amount of \$6 million in Spring or Fall of 2020.

Special Funds

DEPARTMENT: WATER ENVIRONMENT PROTECTION

Project: Wastewater Transportation System Improvements

Purpose: Public/Employee Safety/Health, Reduce Operating Costs/Efficiency, Maintain Existing Investment, Federal/State Mandate

Level of Development: Advanced

Project Description:

This project consists of three primary or categorical elements: pump station improvements, trunk sewer improvements, and facility maintenance improvements (i.e., paving, roofing, and larger-scale maintenance activities).

Project Cost Summary:

FUNDING SOURCE:	Pre-2020	2020	2021	2022	2023	2024	2025	6yr Total	Total:
Borrowing to be Authorized	46,028	0	6,964	8,543	2,000	3,170	0	20,677	66,705
Pay as You Go	60,959	4,575	8,160	8,095	6,655	6,475	8,650	42,610	103,569
Authorized Borrowing	28,540							0	28,540
TOTALS	135,527	4,575	15,124	16,638	8,655	9,645	8,650	63,287	198,814

Project Detail and Status:

This project consists of three primary or categorical elements: pump station improvements, trunk sewer improvements, and facility maintenance improvements - including asset renewal measures/projects (e.g., paving, roofing, larger-scale maintenance activities). Detailed below is a description of the elements included in each of those categories.

Pump Station Upgrade Program Elements:

This project provides for ongoing pump station replacement and upgrading of components or systems and structural fixtures to preclude failures and prevent potential harm to the environment by discharge of raw sewage. Pump station sites scheduled in this project are: Camillus, Gaskin Road, Lakeside, Richmond Street, Sackett Street, Taylor Street and rehabilitation/upgrades to the Baldwinsville Seneca Knolls (BSK) Wastewater Pump Stations. The BSK pump stations include: Baldwinsville North, Baldwinsville South, Baldwinsville West, and Belgium. Pump station improvements will include, but not be limited to, replacement/rehabilitation of pumps, valves, flow meters, variable frequency drives, heating and ventilation systems, and other mechanical and electrical systems.

Includes re-commissioning of the Midland Ave RTF in regards to potential changes to pump sizes and operation. The Forcemain Air Relief and Cathodic Protection project will involve the repair and/or replacement of air relief valves and cathodic protection equipment at various county owned pump station forcemains.

Rehabilitation and replacement of targeted wastewater force mains in the Consolidated Sanitary District. The Consolidated Sanitary District owns 53 miles of force main ranging in size from 42-inch diameter to 6-inches in diameter. More than 45 miles of these pipelines are over 40 years old and have exceeded the recommended service life. It is the intent of this project to strategically rehabilitate or replace this aging infrastructure. This will include forcemains such as Brooklawn, Davis Road, Clay /Cicero, Oak Orchard FM, and Manlius FM, amongst others.

Trunk Sewer Upgrade Program Elements:

Another component of this project addresses modification, repair, and/or replacement of specified trunk sewers and pressure pipelines, of aged facilities comprising the 400 miles of trunk sewer network which the Department has responsibility. Trunk sewers identified in this project are: Portions of Tallman Trunk Sewer (circa 1898), Midland Trunk Sewer (circa 1905), Hillcrest Trunk Sewer (circa 1955), Lakeland Trunk Sewer (circa 1960) and Meadowbrook Trunk Sewer (circa 1960).

A number of projects are generally combined to provide the most practical package from a constructability and

Special Funds

economic viewpoint. The trunk sewer improvement/renewal program includes provisions for the design of improvements to a number of combined trunk sewers in the City of Syracuse and other trunk sewers within the Consolidated Sanitary District.

This project is also to include other sewer infrastructure improvements. A major aspect of the project will be a comprehensive manhole rehabilitation program, so as to achieve infiltration/inflow reductions. This program, which is a key component of WEP's Asset Management Program, will first consist of a high-intensity effort to improve the most problematic manholes in targeted service areas; thereafter, the manhole repair program will be segmented and portions will be completed annually. This is expected to continue for the next several years. New for 2019 is the addition of a new drain back system for the Harbor Brook Wetland Treatment System. The constructed project will enhance the combined sewer overflows capture for the facility further reducing volume and frequency of CSO events.

Collectively, these trunk sewer rehabilitation/renewal programs, along with other ancillary support efforts, are part of the department's Asset Management program.

Facility Maintenance Improvements:

The third component of this project involves maintenance and improvement of other department facilities and wastewater treatment plants, such as repairs and capital projects to replace necessary roofing and paved areas at various facilities, lightning protection, major repairs to grit and clarifier mechanisms at several treatment facilities, miscellaneous engineering support, asset management programs, maintenance management systems, chemical tank and petroleum tank replacements, crane/hoist renewal project, concrete repairs, smaller-scale infrastructure improvements, infrastructure evaluations, upgrades to Metro WWTP's headworks bypass system, a new storm water pump station at Metro WWTP, code compliance, internet connectivity, and safety improvement measures. Replacement of inefficient mechanical equipment, including drives/energy systems, is also anticipated.

The roofing and paving, as well as the clarifier weir capital programs, pump rehabilitation/repair project, and lightning protection, are customarily segmented and portions are completed annually. This is expected to continue for the next several years. The asset management and GIS applications within the department continue to expand. Efforts also include Arcflash analysis and compliance, site and information technology security evaluations and improvements, Henry Clay building and site improvements; safety projects; motor control center and electrical substation evaluation and repair. Also included are design and replacement of the oxygen generation and storage systems at the Baldwinsville and Oak Orchard Wastewater treatment plants as an asset renewal measure.

Included within the project is replacement of larger pieces of analytical equipment, various valves, HVAC improvements, pump installations, confined space improvements, various boiler systems, door replacement project, energy monitoring, several building improvements, odor control measures and improvements, SCADA system enhancements, wastewater treatment plant clarifiers, fire and carbon monoxide monitoring and alarm systems, and other various infrastructure repair/renewal elements for civil, electrical, and mechanical infrastructure. New additions for 2019 include: future upgrades to Brewerton and Meadowbrook-Limestone dewatering systems; and future asset renewal measures for the Wetzel Rd. WWTP Digester system.

It is expected that legislative approval will be sought in September 2019 for approximately \$6,820,000 in cash for this project.

GLOSSARY

Section 4

GLOSSARY OF TERMS

Appropriation An authorization made by the legislative body of a government that permits officials to incur obligations against and to make expenditures of governmental resources. Appropriations are usually made for fixed amounts and are typically granted for a one-year period.

Assets Property owned by the County that has a monetary value.

Attributable Revenue The revenue generated as a direct consequence of the provision of a specific governmental activity, such as fees for service, state or federal aid for programs, and income from sales. If the government no longer provided the service, the revenue would also stop.

Bond A written promise to pay a sum of money on a specific date at a specified interest rate. The interest payments and the repayment of the principal are detailed in a bond ordinance. The most common types of bonds are general obligation and revenue bonds. These are most frequently used for construction of large capital projects, such as buildings, streets and bridges.

Bond Anticipation Notes (BANs) Short-term interest bearing security issued in anticipation of a long-term bond issuance at a later date. The notes are retired with proceeds from the later related bond issue.

Budget A comprehensive financial plan of operation which allocates limited revenues among competing expenditure requirements for a given time period. Onondaga County has two types of budgets, the annual operating budget and the Capital Improvement Plan.

Budget Calendar The schedule of key dates or milestones, which the county follows in the preparation, adoption, and administration of the budget.

Budget Document The official written statement prepared by the Executive Department, which presents the proposed budget to the legislative body.

Budget Message A general discussion of the proposed budget presented in narrative form as a supplement to the budget document. The budget message explains principal budget issues against the background of financial experience in recent years and provides a general summary of the most important aspects of the budget, changes from the current and previous fiscal years, and the views and recommendations of the County Executive.

Capital Assets Assets of significant value and having a useful life of several years. Capital assets are also called fixed assets.

Capital Fund A fund established to account for all resources, principal and proceeds, which are used for planning, acquisition, and construction phases of capital projects.

Capital Improvement Plan (CIP) A plan for capital expenditures to be incurred each year over a period of six future years setting forth each capital project, identifying the expected beginning and ending date for each project, the amount to be expended in each year, and the method of financing those expenditures.

Capital Improvements Physical assets, constructed or purchased; the acquisition of land; or

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improvements to land or buildings. Capital improvements typically involve physical assets such as buildings, streets, water and sewage systems, recreational facilities, and major pieces of equipment.

Capital Notes On all borrowings, except WEP and Water Fund, where the P.P.U. exceeds five years the county is required, by Finance Law, to fund five percent of the total cost in the form of cash prior to the issuance of debt. The county is allowed to borrow this amount in the form of short-term notes known as Capital Notes. Capital Notes may be issued for up to twelve months and can be renewed once (by resolution). Capital Notes are also occasionally issued for emergency sewer repairs.

Capital Outlay Expenditures for equipment, vehicles, or machinery that results in the acquisition of or addition to fixed assets.

Cash Capital See County Tax Revenues.

Cash On Hand Direct financing available from either surplus monies from prior years' taxation, or unused balances in existing capital accounts, or earnings on temporary investments.

County Tax Revenues (Cash Capital) The cash financing of general fund projects by property taxes.

Countywide Authorized Borrowing The financing of a project by long or short term borrowing which has been authorized by the County Legislature.

Countywide Borrowing to be Authorized The financing of a project by long or short term borrowing that will require authorization by the County Legislature before the project can be undertaken.

Debt Service The payment of principal and interest on borrowed funds, according to a pre-determined payment schedule.

Department The highest organizational level for the provision and delivery of a specific governmental service or closely related services. A department may be comprised of subdepartment, agency, etc.

Depreciation Expiration in the service life of capital assets attributable to wear and tear, deterioration, action of the physical elements, inadequacy or obsolescence. That portion of the cost of a capital asset that is charged as an expense during a particular period. This represents the decrease in value of physical assets due to use and the passage of time.

Enterprise Fund A governmental accounting fund in which the services provided are financed and operated similarly to those of a private business. The rate schedules for these services are established to insure that revenues are adequate to meet all necessary expenditures.

Equipment One of the major expense codes used to categorize appropriations. Equipment includes county appropriations for office, construction, plant, laboratory, grounds, motor vehicles, safety, tools and shop equipment.

Estimated Revenues The amount of projected revenue to be collected during the current or ensuing fiscal year. The amount of revenue estimated is the budgeted amount approved by the Legislature.

Expenses Charges incurred for operations, maintenance, interest, travel, equipment, rentals, utilities, professional services, contracts and other charges.

Federal Aid The financing of eligible projects through the use of Federal funds other than Federal Revenue Sharing.

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Federal Revenue Sharing The financing of eligible projects through the use of Revenue Sharing funds.

Fiscal Agent Fees These are fees charged by institutions for record keeping of registered (Serial) Bondholders and for the semi-annual distribution of principal and interest payments to those bondholders. The purchaser pays Fiscal Agent Fees on Capital Notes and Bond Anticipation Notes.

Fiscal Year (FY) A twelve-month period designated as the operating year for an entity. For the county, the fiscal year is the same as the calendar year - January 1 to December 31 - also called the Budget Year. The fiscal year for the State of New York is April 1 - March 31. The Federal fiscal year is October 1 to September 30.

Fixed Assets Assets of long-term character, which are intended to continue to be held or used, such as land, buildings, machinery, furniture and other equipment.

Full Faith and Credit A pledge of the general taxing power of a government to repay debt obligations, typically used in reference to bonds.

Fund An independent fiscal and accounting entity with a self-balancing set of accounts recording cash and/or other resources together with all related liabilities, obligations, reserves, and equities which are segregated for the purpose of carrying on specific activities or attaining certain objectives (see General Fund).

General Fund The largest fund within the county, the General Fund accounts for most of the county's financial resources. General Fund revenues include property taxes, licenses and permits, local and sales taxes, service charges, and other types of revenue. This fund usually includes most of the basic operating services, such as public safety, finance, data processing, parks and recreation, highway, long term care, community college, library and other direct operating support.

General Obligation Bonds When a government pledges its full faith and credit to the repayment of the bonds it issues, then those bonds are general obligation (GO) bonds. Sometimes the term is also used to refer to bonds that are to be repaid from taxes and other general revenues.

Grant A contribution of assets (usually cash) by one governmental unit or other organization to another. Typically, these contributions are made to local governments from the state and federal governments. Grants are usually made for specified purposes.

Interest The price paid for the use of money, or the return on investment obtained from investing or lending money.

Liability Debt or other legal obligations arising out of transactions in the past that must be liquidated renewed or refunded at some future date. The term does not include encumbrances.

Local Dollars The difference between appropriations and revenues which must be raised through the property tax levy.

Long Term Debt Debt with a maturity of more than one year after the date of issuance.

Mandate Any responsibility, action or procedure that is imposed by one sphere of government on another through constitutional, legislative, administrative, executive, or judicial action as a direct order or that is required as a condition for reimbursement of expenditures.

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Maturity Date The date at which full and/or final payment of principal and interest is due on debt obligations.

Onondaga County Legislature The County Legislature consists of seventeen elected members and constitutes the legislative, appropriating, policy determining, and governing body of the County of Onondaga.

Operating Budget The portion of the budget that pertains to daily operations and provides basic governmental services. The operating budget contains appropriations for such expenditures as personnel, supplies, utilities, materials, travel, and fuel.

Other Sources The financing of projects from sources other than tax supported, Federal and/or State Aid (i.e. private funds, fees).

Pay-As-You-Go The strategic use of tax revenues to finance projects in an effort to reduce the issuance of debt and the related interest costs, i.e. use of tax revenues to finance annually recurring projects.

Period of Probable Usefulness (PPU) The maximum period of time available, by law, to repay indebtedness. PPU's for various types of projects are mandated by Local Finance Law, and range between 3 and 40 years.

Principal The par value or face value of a bond, note, or other fixed amount security, excluding accrued interest.

Renewals Bond Anticipation Notes (BANs) and Capital Notes are short-term borrowings, one year or less, that have to be renewed or paid off at maturity. A renewal is the re-borrowing of the debt, less any scheduled principal payment.

Reserve An account used to indicate that a portion of a fund's balance is legally restricted for a specific purpose and is, therefore, not available for general appropriation.

Revenue Funds that the government receives as income. It includes such items as tax payments, fees from specific services, receipts from other governments (state and federal aid), fines, forfeitures, grants, shared revenues and interest income.

Revenue Anticipation Notes (RANs) RANs are issued in anticipation of the receipt of specific revenues, generally non-tax revenues. RANs are typically used for cash flow borrowings. The specific revenues are set-aside on receipt, for payment of the RAN and interest upon its maturity. The debt cannot extend beyond twelve months and must be paid in full at maturity.

Revenue Estimate A formal estimate of how much revenue will be earned from a specific revenue source for a current or future period; typically, a future fiscal year.

Revenue Source A category of revenue, such as local source, state aid, or federal aid.

Serial Bond A written promise to pay a specified sum of money (principal face value) at a specified future date (maturity date[s]) along with periodic interest paid at a specified percentage of the principal (interest rate). Serial bonds are typically used for long-term debt.

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Special Districts Authorized Borrowing The financing of a project by long or short term borrowing which has been authorized by the County Legislature for special districts such as Drainage Districts.

Special Districts Borrowing To Be Authorized The financing of a project by long or short-term borrowing that will require authorization by the County Legislature before the project can be undertaken.

State Aid The financing of eligible projects through the use of state funds.

Tax Levy The total amount to be raised by property taxes for the purpose stated in the county's financial plan for various funds.

User Fees The payment of a fee for direct receipt of a public service by the party benefiting from the service.