

AGENDA
COMMITTEE OF THE WHOLE
SPECIAL MEETING
January 24, 2023
2200 Harnish Drive
Village Board Room
7:30 P.M.

Trustee Brehmer – Chairperson
Trustee Auger
Trustee Spella
Trustee Glogowski
Trustee Dianis
Trustee Smith
President Sosine

- AGENDA -

1. **Roll Call – Establish Quorum**
2. **Public Comment – Audience Participation**
(Persons wishing to address the Committee must register with the Chair prior to roll call.)
3. **Presentation for Capital Budget for 2023/2024**
 - A. Proposed Water and Sewer Improvement and Construction Fund
 - B. Proposed MFT and Street Improvement Funds
 - C. Proposed Park Improvement Fund
 - D. Proposed Natural Area and Drainage Improvement Fund
4. **Adjournment**



VILLAGE OF ALGONQUIN
GENERAL SERVICES ADMINISTRATION

- M E M O R A N D U M -

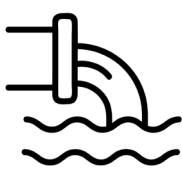
DATE: January 19, 2023
TO: Committee of the Whole
FROM: Tim Schloneger, Village Manager
SUBJECT: Proposed Capital Budget – 2023/2024 Water & Sewer Improvement Fund

OVERVIEW

Attached is the proposed budget for the Water and Sewer Improvement and Construction Fund. This fund is intended for the larger capital improvements such as expansion of the water and sewer treatment plants, distribution systems, and smaller expenditures that improve or enhance the existing water and sewer distribution systems overall. The Water and Sewer Improvement and Construction Fund is a capital account with cash reserves that can be accumulated from year to year.

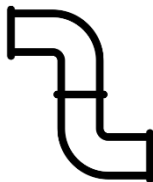
The revenue estimated for this fiscal year is \$2,894,000 (including a transfer of \$1,330,000 from the Water & Sewer Operating Fund), and expenses are budgeted at \$6,052,000. A planned drawdown on cash reserves will balance the fund.

Village of Algonquin Water and Sewer System



1

Wastewater
Treatment
Facility



139

Miles of
Sanitary
Sewer



3

Water
Treatment
Plants



169

Miles of
Water Main



9

Water
Wells



7

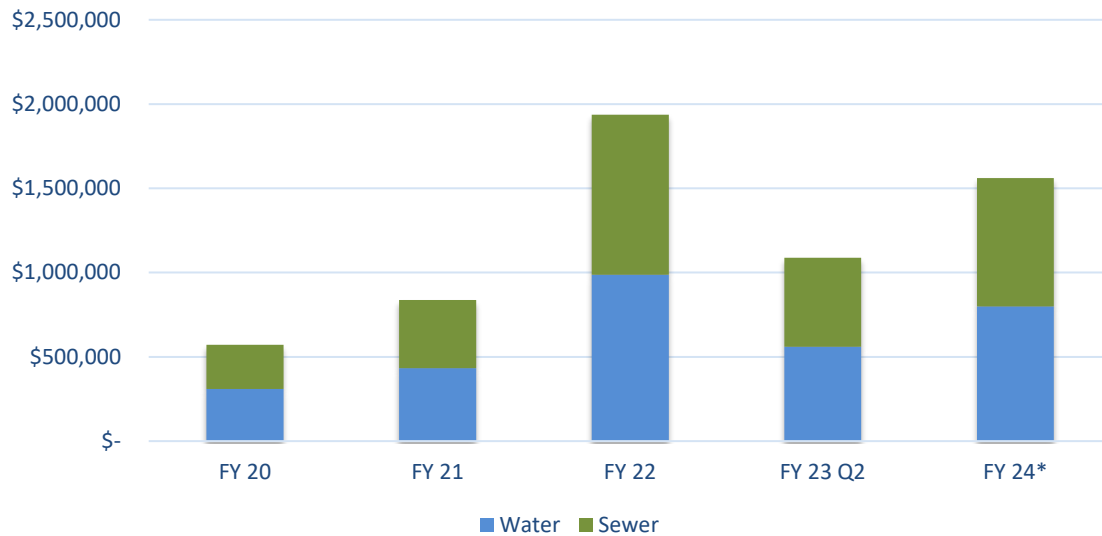
Water
Storage
Tanks

REVENUES - \$2,894,000

Maintaining safe drinking water and environmentally sound sewer services is one of the most important responsibilities of the Village of Algonquin. As providing water and sewer services becomes more expensive, the village is faced with the constant challenge of balancing our interest in offering a fundamental public health service at an affordable price against the necessity of managing our systems in a financially sustainable manner. Water,

sewer and all other utilities are businesses, regardless of who owns them. The village's water and sewer utilities are businesses that just happen to be owned by government.

Water/Sewer Connection Fee History



EXPENSES - \$6,052,000

ACCOUNT 42230 - LEGAL SERVICES - \$10,000 - This line item covers services required for legal matters associated with water and sewer improvement projects.

ACCOUNT 42232 - ENGINEERING - \$970,000 - This line item provides payment for engineering services for the design, construction oversight, and inspection of projects planned in this fund. Projects include the following:

- Biosolids Handling - \$160,000 is allocated for Biosolids Dewatering Design 60-100% which is the next step forward in regards to the replacement of the belt filter press with centrifuge technology.
- Boyer & County Line Road Watermain - \$20,000 is allocated for the continued design of the future water main on Boyer Road from Loren Ln to Corporate Pkwy which will occur concurrently with the Boyer Road Rehabilitation Improvement. The construction of the water main will be completed at the same time as the roadway project.
- Highland Avenue Water Main - There are water main dead ends on Highland Ave at Fox Run Lane and just east of Tanglewood Dr. Additionally, long service leads for [Presidential Park](#) facilities. \$90,000 is allocated for this project which will propose a route through the south portion of the park north of Highland Avenue with a connection to Fox Run. Coordination with the park improvement will be required for service locations and project timing. The water main installation should occur prior or during park construction.
- PRV Replacement Program Year 2 & 3 - \$100,000 is allocated to evaluate and replace PRV's. Replacement was defined in the Water System Master Plan.

- Souwanas & Schuett Streets - \$150,000 is allocated for this project which is being partially funded by Surface Transportation fund through CMAP and the McHenry Council of Mayors in the amount of \$1.5M, with the difference to complete the work being funded through local Street Improvement funds. The project involves narrowing the existing roadway, replacement of all curb & gutter, partial replacement of sanitary sewer on Souwanas, and watermain replacement on Schuett (which will be budgeted in W&S Imprv Fund), storm sewer repair, and replacement of the failed box culvert on Souwanas.
- Towne Park Watermain - Construction oversight for the water main improvement under Crystal Creek connecting two dead end mains at the NE quadrant of Towne Park. \$60,000 is allocated for this work which is expected to occur prior to or in the early stages of construction of the [Towne Park Improvements](#).
- Water System Master Plan Update - Our current [Master Plan](#) was done in 2012. It is suggested that these master plans be updated every 10 years to keep abreast of additions and changes in the water system and EPA regulations. Having current plans and costs also helps to get low interest loans from the IEPA. \$100,000 is allocated for this initiative.
- WTP 1&2 Roof & Aerator Replacement - \$110,000 is provided for engineering services to replace the aging roof & aerators.
- WTP 2 Water Softener Media Replacement - \$25,000 is provided for engineering services to replace the water softener media.
- WTP 3 PFAS Mitigation Study - \$20,000 is provided to perform a study at WTP #3 for [PFAS](#) should the EPA start to require this.
- Contract Engineer - \$100,000 is provided to contract for onsite engineering services to assist staff in managing the large number of RFPs and contracts that will be flowing through the Public Works Administration offices over the next several years. The scope of services for this individual may include generation of RFPs for design and field services, plan review and comment, customer service and correspondence, and contract administration. The contract engineer will be under the direction of the Public Works Director and will work jointly to assist Village staff.
- PR Firm - \$35,000 is allocated to hire a public relations firm to address the department with communication about infrastructure improvements projects within the Village They will assist with public meetings in advance of construction, project brochures, social media content, email list blasts, individual project websites with updated schedules, traffic pattern information, project updates and photos.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$810,000

- Copper Oaks Tower Repair & Maintenance - This is a program that starts with a complete renovation of the tower to bring it to a “baseline condition”. Once the tank is to a “baseline condition” they start a maintenance program that involves annual draining, cleaning, and inspections. \$800,000 is allocated for this project.

- WWTP 6B - \$10,000 is allocated for year 2 of the 3-year establishment of the native seeding at the WWTP.

ACCOUNT 44416 – COLLECTION SYSTEM MAINTENANCE - \$200,000

- Sanitary Sewer Rehabilitation - \$200,000 is provided for this ongoing program to identify and correct failures in the sanitary sewer collection system derived from sanitary sewer studies in order to prolong the life cycle and reduce routes of inflow and infiltration. Work includes potential manhole rehabilitation, sanitary sewer line replacements, and CIPP (Cured in Place Pipe), or lining of sanitary sewer pipe.

ACCOUNT 45520 – WATER TREATMENT PLANT - \$350,000

- WTP 2 Water Softener Media Replacement - The water softener media needs replacement it has reached its useful lifespan, \$350,000 will cover the cost of the media replacement, the interior coating, and bid alternatives.

ACCOUNT 45526 – WASTEWATER COLLECTION - \$1,250,000

- Souwanas & Schuett Streets - \$1,250,000 is allocated for this project which is being partially funded by Surface Transportation fund through CMAP and the McHenry Council of Mayors in the amount of \$1.5M, with the difference to complete the work being funded through local Street Improvement funds. The project involves narrowing the existing roadway, replacement of all curb & gutter, partial replacement of sanitary sewer on Souwanas, and watermain replacement on Schuett (which will be budgeted in W&S Imprv Fund), storm sewer repair, and replacement of the failed box culvert on Souwanas. The project also includes upgrading Souwanas between Scott and the Fox River from a rural cross section to an urban cross section with curb and gutter and proper drainage. Pedestrian sidewalks will be installed on the entire length of Souwanas, between Sandbloom and Oceola.

ACCOUNT 45565 – WATER MAIN - \$2,462,000

- Lead Service Line Replacement - \$300,000 is allocated to replace approximately 30 lead service lines. It is estimated that approximately 200 lead service lines exist in the Village.
- PRV Replacement Program Year 2 -\$250,000 is allocated for this plan which includes the Removal of Zange PRV and the installation of a prefabricated station, SCDA integration for the new station, water main improvements, the removal of the PRV at Arquilla at Hanson Rd, water main improvements including a flushing device for the dead end water main, install individual in-building PRVs, eliminate the PRV at Eastgate and Webster will include, removal of the existing PRV, water main improvements including water main looping to eliminate dead ends or install a flushing device. Additionally, a new sanitary drop manhole and flushing device is required on Algonquin Road in McHenry County ROW.
- Souwanas & Schuett Streets - \$600,000 is allocated for this project which is being partially funded by Surface Transportation fund through CMAP and the McHenry Council of Mayors in the amount of \$1.5M, with the difference to complete the work being funded through local Street Improvement funds. The project involves

narrowing the existing roadway, replacement of all curb & gutter, partial replacement of sanitary sewer on Souwanas, and watermain replacement on Schuett (which will be budgeted in W&S Imprv Fund), storm sewer repair, and replacement of the failed box culvert on Souwanas. The project also includes upgrading Souwanas between Scott and the Fox River from a rural cross section to an urban cross section with curb and gutter and proper drainage. Pedestrian sidewalks will be installed on the entire length of Souwanas, between Sandbloom and Oceola.

- Highland Avenue Water Main - There are water main dead ends on Highland Ave at Fox Run Lane and just east of Tanglewood Dr. Additionally, long service leads for Presidential Park facilities. \$650,000 is allocated for this project which will propose a route through the south portion of the park north of Highland Avenue with a connection to Fox Run. Coordination with the park improvement will be required for service locations and project timing. The water main installation should occur prior or during park construction.
- Towne Park Watermain - Construction oversight for the water main improvement under Crystal Creek connecting two dead end mains at the NE quadrant of Towne Park. \$662,000 is allocated for this work which is expected to occur prior to or in the early stages of construction of the [Towne Park Improvements](#).

ACCOUNT 45570 – WASTEWATER TREATMENT FACILITY - \$0

- WWTP – No projects are planned this year.

SUMMARY OF WATER AND SEWER CAPITAL IMPROVEMENT BUDGET

The projects covered in this memo for water and sewer improvements are recommended for approval based on continued implementation of the multi-year Water/Sewer Capital Improvement Plan. These recommended expenditures continue the implementation of our capital utility planning and add reliability to the water and sewer system for the residents of the village.

Attachment

Water and Sewer Improvement and Construction Fund

Revenues

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 23/24
			Actual	Actual	Actual	Q2	Budget	Budget
12000400	33035	Donations - Operating W&S	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12000400	33055	Donations - Capital W&S	-	459,855.00	-	-	-	-
12000400	33252	Donations - Capital Public Works	-	-	-	-	-	-
12000400	34800	Water Tap-On Fees	309,801.00	433,243.00	987,236.00	560,870.00	400,000.00	800,000.00
12000400	34810	Sewer Tap-On Fees	260,906.00	404,790.00	949,580.00	527,040.00	350,000.00	760,000.00
12000500	36001	Interest	328.58	326.81	205.99	77.22	100.00	100.00
12000500	36020	Interest - Investment Pools	244,484.11	2,324.34	1,026.19	4,286.16	400.00	3,900.00
12000500	38007	Transfer from W&S Operating	6,012,776.00	1,335,927.40	18,630,830.52	680,533.48	3,489,900.00	1,330,000.00
Water & Sewer Imp. & Const. Fund Total			\$ 6,828,295.69	\$ 2,636,466.55	\$ 20,568,878.70	\$ 1,772,806.86	\$ 4,240,400.00	\$ 2,894,000.00

Water and Sewer Improvement and Construction Fund

Expenses

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 23/24	FY 23/24	FY 23/24
			Actual	Actual	Actual	Q2	Budget	Dept.	Manager	Budget
Nondepartmental										
12900400	42230	Legal Services	\$ 1,706.25	\$ 962.25	\$ 5,058.75	\$ 231.25	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ -
12900400	42232	Engineering Services	235,333.42	263,739.27	147,903.97	85,635.80	1,223,000.00	970,000.00	970,000.00	-
12900400	43348	Meters & Meter Supplies	1,858,506.24	-	-	-	-	-	-	-
12900400	43370	Infrastructure Maintenance	600,808.80	262,056.63	848,854.60	-	20,000.00	810,000.00	810,000.00	-
12900400	44416	Collection System Maintenance	91,374.00	85,884.26	85,999.24	96,097.50	200,000.00	200,000.00	200,000.00	-
Subtotal			\$ 2,787,728.71	\$ 612,642.41	\$ 1,087,816.56	\$ 181,964.55	\$ 1,453,000.00	\$ 1,990,000.00	\$ 1,990,000.00	\$ -
Capital Expenditures										
12900400	45520	Water Treatment Plant	\$ -	\$ -	\$ -	\$ -	\$ 215,000.00	\$ 350,000.00	\$ 350,000.00	\$ -
12900400	45526	Wastewater Collection	-	18,552.43	91,109.60	69,421.53	480,000.00	1,250,000.00	1,250,000.00	-
12900400	45565	Water Main	-	18,674.24	16,810.75	-	1,975,000.00	2,462,000.00	2,462,000.00	-
12900400	45570	Wastewater Treatment Facility	-	-	-	130,911.27	2,400,000.00	-	-	-
Subtotal			\$ -	\$ 37,226.67	\$ 107,920.35	\$ 200,332.80	\$ 5,070,000.00	\$ 4,062,000.00	\$ 4,062,000.00	\$ -
Water & Sewer Imp. & Const. Fund Total			\$ 2,787,728.71	\$ 649,869.08	\$ 1,195,736.91	\$ 382,297.35	\$ 6,523,000.00	\$ 6,052,000.00	\$ 6,052,000.00	\$ -
Actual figures have been adjusted to reflect capitalization of fixed assets, per auditor.										
Capital expenditures are transferred to and capitalized in the Water & Sewer Operating Fund.										



VILLAGE OF ALGONQUIN
GENERAL SERVICES ADMINISTRATION

- M E M O R A N D U M -

DATE: January 17, 2023

TO: Committee of the Whole

FROM: Tim Schloneger, Village Manager

SUBJECT: Proposed Capital Budgets – 2023/2024 – Motor Fuel Tax (MFT)

OVERVIEW

Attached is the proposed fiscal year 2023/2024 budgets for the Motor Fuel Tax (MFT) Fund. The projects and programs recommended continue the village's commitment to the maintenance, repair and rehabilitation of existing infrastructure. Preventive maintenance is key to controlling long-term costs.

MFT FUND REVENUES - \$1,280,000

Under the MFT Fund, the primary revenue sources are the Motor Fuel Tax allotments provided by the State of Illinois and interest income on accumulated cash reserves. (Separately, \$1,750,000 in one-time [Rebuild Illinois Funds](#) that have been accumulated over the past several years is also being allocated for capital improvements.)

MFT FUND EXPENDITURES - \$3,420,000

ACCOUNT 42232 - ENGINEERING/DESIGN - \$0

ACCOUNT 43309 - MATERIALS - \$300,000

- \$250,000 - Road Salt is used for general deicing of roadways during snow and ice removal operations. This is applied to make sure that any ice on the road surface is melted, therefore making the road less slippery and reducing the probability of a vehicular accident for the traveling public.
- \$25,000 - New wave deicers and brines are applied to road salt to increase its effectiveness as an ice melting product in severely cold conditions.
- \$25,000 - We are providing money to purchase asphalt material so our in-house crews can patch failing sections of pavement.

ACCOUNT 43370 - INFRASTRUCTURE MAINTENANCE - \$320,000

- Bike Path Repair - We have been inspecting our [trail system](#) every year in order to keep the paths in a safe and useable condition. \$20,000 is allocated for contract services to repair any path that we deem necessary in our inspections.
- Asphalt Patching - \$150,000 is allocated to contract out our asphalt patching program. In this program we patch Village owned roads that are deteriorating and are not yet in the capital budget for a full grind an overlay or rehabilitation. The patching allows the roadways to stay in safe and drivable condition until funding is available for a more permanent fix.
- Tree Removal - \$150,000 is allocated to cover contracted tree removal services to maintain our urban forest.

ACCOUNT 44427 – MAINTENANCE – CURB/SIDEWALK - \$350,000

- \$350,000 is allocated for contracted curb, sidewalk and driveway removal and replacement. Each year we inspect approximately 1/5th of the Village's sidewalks, curb and driveway aprons for any deviations or structural issues. A contractor is then hired to remove and replace anything noted in our inspections.

ACCOUNT 44428 – MAINTENANCE – STREETS - \$250,000

- Pavement Marking - \$70,000 has been provided for both thermoplastic and paint pavement marking to be done by a contractor. Each year the Village participates in a joint bid with the [McHenry County Division of Transportation](#) as well as other McHenry County communities to provide this service. We try to cover about 1/4 of the village each year so that markings stay visible and clean in directing the motoring public.
- Street Sweeping - \$160,000 is provided for 13 cycles of contracted service of the Village throughout the year, as well as 2-3 extra sweepings in the fall to cover leaves. A contingency cost is also provided for special event and emergency call out sweeping services.
- Crack Sealing - \$20,000 is provided to continue our program of asphalt roadway preservation techniques to maximize the useful life of our quality roadways and maintain a high-level PCI (pavement condition index) rating on our recently improved road surfaces. Crack sealing involves routing out the crack to open up the void and then filling that void with a resilient rubberized crack fill material that prevents excessive water intrusion into the crack, preventing the crack from worsening, and eventually forming potholes due to winter and spring freeze-thaw cycles.

ACCOUNT 44429 – MAINTENANCE – STREET LIGHTS - \$300,000

- \$300,000 has been provided for contract maintenance for Village owned street lighting. This cost covers a monthly inspection by a hired contractor of all Village owned street lights and parking lot lights as well as any routine maintenance items that need to be done to keep the lights working. This budget item also covers any

major repairs such as replacement of a light pole or fixture due to traffic accidents or other circumstances.

ACCOUNT 44431 – MAINTENANCE – STORM SEWER - \$150,000

- \$150,000 is provided in this line item to pay a contracted service to do storm sewer cleaning as required by the [MS4 Regulations](#) laid down by the [Illinois Environmental Protection Agency \(IEPA\)](#). This contracted service will allow us to get this routine maintenance activity on a regular schedule so that we can cover the entire system in a reasonable time frame. Removing solids from the storm sewer system prevents these materials from being deposited in the Fox River.

ACCOUNT 45593 – CAPITAL IMPROVEMENTS – \$1,750,000

- Tunbridge Subdivision - Monies are provided to reconstruct both sections of the Tunbridge Subdivision. The area proposed to be constructed is the area of Tunbridge subdivision south of Sawmill Drive in Dawson Mill subdivision, west of Golf Club of Illinois, and south to County Line Road. The project scope will include geotechnical analysis of subbase conditions, select curb and gutter removal and replacement, sidewalk repair (per the Public Works Department survey results) bike path replacement, storm structure assessment and repair/replacement, and subbase repair and new asphalt driving surface. These road sections are between 26 and 28 years old and have never been resurfaced.

Attachments

Motor Fuel Tax Fund

Revenues

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 23/24
			Actual	Actual	Actual	Q2	Budget	Budget
03000300	33015	MFT Allotments	\$ 1,108,747.13	\$ 626,276.12	\$ 692,178.97	\$ 351,940.78	\$ 680,000.00	\$ 710,000.00
03000300	33018	MFT Transportation Renewal	-	738,570.76	505,596.63	261,816.07	500,000.00	564,000.00
03000300	33016	MFT Capital Program	352,928.24	700,997.47	330,024.94	330,024.94	330,000.00	-
03000300	33017	High Growth Allotment	9,162.00	66,146.67	61,566.00	-	-	-
03000300	33052	Donations - Capital	-	-	-	-	-	-
03000500	36020	Interest - Investment Pools	38,478.79	4,495.78	2,813.26	30,133.14	-	6,000.00
Motor Fuel Tax Fund Total			\$ 1,509,316.16	\$ 2,136,486.80	\$ 1,592,179.80	\$ 973,914.93	\$ 1,510,000.00	\$ 1,280,000.00

Motor Fuel Tax Fund

Expenditures

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 22/23	FY 22/23	FY 22/23
			Actual	Actual	Actual	Q2	Budget	Dept.	Manager	Budget
03900300	42232	Engineering/Design Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
03900300	43309	Materials	330,552.43	263,282.27	161,952.61	69,055.50	330,000.00	300,000.00	300,000.00	-
03900300	43370	Infrastructure Maintenance	145,633.90	251,413.20	197,026.21	176,248.72	400,000.00	2,070,000.00	320,000.00	-
03900300	44427	Maintenance - Curb/Sidewalk	451,065.15	454,232.05	671,703.70	430,356.75	600,000.00	350,000.00	350,000.00	-
03900300	44428	Maintenance - Streets	218,803.41	183,220.85	183,305.10	125,252.52	260,000.00	250,000.00	250,000.00	-
03900300	44429	Maintenance - Street Lights	66,999.93	41,850.14	224,894.04	66,970.68	160,000.00	300,000.00	300,000.00	-
03900300	44431	Maintenance - Storm Sewer	180,800.00	200,200.00	200,000.00	-	200,000.00	150,000.00	150,000.00	-
03900300	45593	Capital Improvements	-	-	-	-	-	-	1,750,000.00	-
Motor Fuel Tax Fund Total			\$ 1,393,854.82	\$ 1,394,198.51	\$ 1,638,881.66	\$ 867,884.17	\$ 1,950,000.00	\$ 3,420,000.00	\$ 3,420,000.00	\$ -



VILLAGE OF ALGONQUIN
GENERAL SERVICES ADMINISTRATION

- M E M O R A N D U M -

DATE: January 18, 2022

TO: Committee of the Whole

FROM: Tim Schloneger, Village Manager

SUBJECT: Proposed Capital Budget – 2023/2024 - Street Improvement Funds

OVERVIEW

Attached is the proposed fiscal year 2023/2024 budgets for the Street Improvement Fund. The recommended projects continue the village's commitment to implementation of the multi-year street improvement program.

The Street Improvement Funds budget assumes carryover projects from the current fiscal year, outstanding monies to be paid to the state of Illinois for previously completed projects, a draw down in cash reserves, grants, future tax increment financing (TIF) fund reimbursements and the possibility of revenue enhancements and the future issuance of debt. These factors will allow expenditures of road projects to exceed revenues by \$7,230,000. The projected current year revenue totals \$5,700,000, and the proposed engineering, road construction and maintenance expenditures total \$12,930,000.

CAPITAL IMPROVEMENT PLANNING

A Capital Improvement Plan (CIP) is a multi-year plan identifying capital projects to be funded during the planning period. The CIP identifies each proposed capital project to be undertaken, the year the assets will be acquired or the project started, the amount of funds expected to be expended in each year of the CIP, and the way the expenditure will be funded. A CIP is not a static document. It is reviewed every year to reflect changing priorities and unexpected events and opportunities. A CIP includes the maintenance, repair and rehabilitation of existing infrastructure as well as the construction of new infrastructure.

There are three (3) basic methods of financing capital requirements:

1. funding from current revenues/grants
2. funding from fund balance/working capital
3. funding through the issuance of debt

When possible, the Village uses cash for capital improvements within the financial affordability of each fund rather than issuing debt. Debt financing is used when the capital assets or projects cannot be funded prudently from current revenues or fund balances. Debt financing is also utilized to better ensure inter-generational equity by spreading payments for

assets and infrastructure over their useful lives. This is similar to taking out a mortgage to purchase a home that you intend to live in for a long time rather than emptying your savings to pay cash. When debt financing is being considered as a tool for implementation of the CIP, it is important that the time horizon of the CIP be adjusted to match the debt repayment period of the note(s) to ensure adequate financial capacity in future years.

Infrastructure deterioration continues at a constant pace, regardless of revenues or economic conditions. All roads eventually reach the end of their useful life. As the physical condition of the asset declines, deferring maintenance and/or replacement increases long-term costs and liabilities. Our goal is to manage the village's roads in order to minimize the total cost of owning and maintaining them while continuously delivering the standard that the community expects.

Preventive maintenance is key to controlling long-term costs. It costs less in the long run to have good roads than bad roads--if you continuously keep up with preventive maintenance. Deferred maintenance drives up long-term costs; it shortens the cycle for rehabilitation which is four times as costly. Deferred rehabilitation compounds the problem, often leading to pavement failure and the need to reconstruct the whole roadbed, at ten times the cost.

Continued investment in village infrastructure is critical to avoid major structural failures in our road and drainage network in the near future. The capital expenditures for roads and drainage proposed in these funds continue to address the aged and deteriorating infrastructure of the community.

PAVEMENT CONDITION INDEX (PCI) RATING UPDATE

In 2021 the Village partnered with the [Chicago Metropolitan Agency for Planning \(CMAP\)](#), to hire the firm APTech to update the Village's pavement management program.

Pavement management is the process of planning the maintenance and repair of a network of roads or other paved facilities to optimize pavement conditions over the entire network. The process of pavement management includes creating a network inventory, measuring the condition of each roadway, defining treatment strategies, establishing models to predict performance over time, and performing analyses to predict budget needs and create a work plan that will make the most efficient use of resources to achieve agency goals. Pavement management supports accountable, performance-based, goal-oriented decision making, and presentation of information to stakeholders clearly and effectively. Pavement management allows the Village to move from worst-first, reactive planning to proactive, performance-based planning to make the most effective use of available funds over time.

The Village road network includes about 134 centerline-miles (over 19.6 million ft²) of roads, divided into 1,605 pavement management sections. The network is surfaced primarily with Asphalt Concrete (99.25 percent), although there are very small sections of Gravel, Brick, and Portland Cement Concrete (PCC) roads. The network is divided into three functional classes; Major Arterials making up 1 percent of the area, Minor Arterials and Collectors making up 36 percent of the area, and Local roads make up 63 percent of the road surface area.

APTech collected pavement condition data in the Village in Spring 2021. Pavement distress was summarized to calculate Pavement Condition Index (PCI) values for each street in accordance with ASTM Specification D6433, Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys. Overall, the area-weighted average PCI of the Village-

maintained roadway network is 50. This puts the area-weighted average PCI for the Village in the *Poor* condition category.

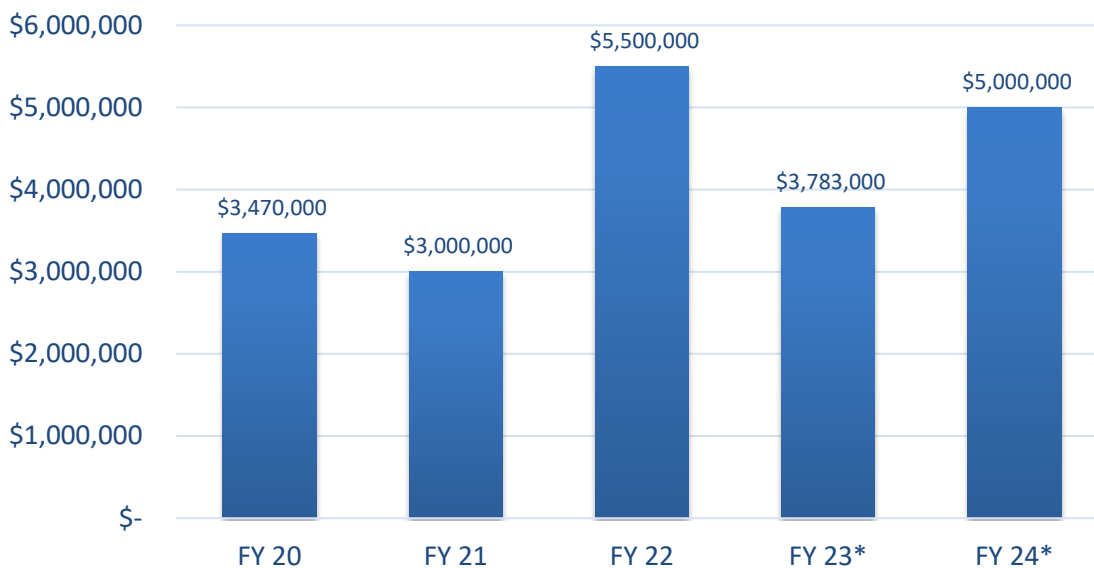
APTech performed a comprehensive pavement condition survey and evaluated the impact of the Village’s existing funding level on future pavement conditions. The resulting outputs were used by the Village to determine funding levels required to: maintain current pavement conditions, improve current pavement conditions, eliminate rehabilitation and reconstruction backlog, and recommend pavement preservation and rehabilitation projects.

The Street Improvement Fund budget is implementing the recommendations of the report by taking an aggressive plan to address maintenance and rehabilitation needs. The models show that substantial upfront investments result in much lower life cycle costs. Once the road network is dramatically improved, the Village will transition to a less intense, and less expensive, program of maintenance and preservation treatments to keep the roads in good condition.

STREET IMPROVEMENT FUND REVENUES - \$10,700,000

The estimated revenues for the Street Improvement Fund include 75% of home rule sales taxes, telecommunications tax, utility tax receipts, and interest estimated for this fiscal year. Additionally, a \$3.3 million transfer from the General Fund and a TIF reimbursement of \$1.7 million has been budgeted in FY 23/24. In the five-year period shown below, approximately \$20.8 million of one-time transfers have been made available to finance projects in the Street Improvement Fund.

Transfers from General and Downtown TIF Fund



STREET IMPROVEMENT FUND EXPENDITURES - \$12,930,000

ACCOUNT 42230 - LEGAL SERVICES - \$15,000 – This line item covers legal services associated with street improvement projects such as right-of-way and easement research. Additional monies are budgeted for permanent easement acquisition within this fiscal year.

ACCOUNT 42232 - ENGINEERING DESIGN SERVICES – \$1,074,000 - The professional services anticipated in this item include construction oversight and inspection services for projects to be built during the next three (3) years:

- 20 Washington Street Parking Lot - \$1,000 is provided to finalize the design and installation of a parking area on the Northeast corner of S. Harrison St. and Washington St. The project will include drainage improvements and a simple parking area. In conjunction with this project we are also proposing to re-surface the existing municipal lot on Washington.
- ADA Transition Plan - \$50,000 is being provided to begin a Village-wide assessment of our infrastructure and current [American with Disabilities Act \(ADA\) Standards](#). In the near future, federal guidelines will require all local municipalities to implement an ADA Transition Plan. Additionally, having a plan in place will allow for additional funding opportunities when applying for federal and state grants for infrastructure projects such as STP, ITEP, CMAQ, etc.
- Boyer and County Line Roads – A total of \$85,000 is provided for these two projects which have significant issues related to geometric, drainage and pedestrian access to meet State ADA regulations. Additionally, future utility improvements must now be considered prior to moving forward. These 2 projects were originally combined and we are planning on submitting this project to the [McHenry County Council of Mayors](#) for Federal funding. Now that we are in the middle of the design, we realize that both roads are eligible for federal funding. Therefore, by breaking it into two separate projects, we have the opportunity for receiving funding for both. Boyer is currently funded for 2026, County Line is on the contingency list for 2026. In case additional funds become available sooner we want these projects to be shovel-ready by the end of 2024. Boyer land acquisition.
- Broadsmore & Stonegate Roads - \$10,000 is provided for work in the Willoughby Farms Estates Subdivision which will involve curb and driveway patching, minor drainage system repairs and pavement repair and resurfacing. The work will involve improvements to Broadsmore Drive, from Randall to Stonegate, and Stonegate Road, from Longmeadow Parkway to Grandview Drive. Phase II Engineering funds are added to update plans and incorporate drainage improvements.
- Bunker Hill Drive - \$20,000 is provided for the Bunker Hill Drive project which is proposed as a road rehabilitation project that completes the portion of Bunker Hill from the limits of the County's Randall Road Improvement to the westerly limit of the Creekside Subdivision, between Saratoga Circle and Greens View Drive. Currently, this section of road had a terribly rough ride, particularly in the winter when the ground is frozen, due to a questionable base that was built over an old farmed wetland. The scope of the project will include topographical survey, geotechnical analysis of subbase conditions, select curb and gutter removal and replacement, sidewalk repair (per the Public Works Department survey results) bike path replacement, storm structure assessment and repair/replacement, and subbase repair and new asphalt driving surface. Phase II Engineering funds added to update plans and resubmit project for STP funding in January 2024.
- Downtown Streetscape Dry Utility Lowering - As the Village continues its streetscape upgrades and improvements, the next phase is to continue the

undergrounding of all the overhead utilities to enhance aesthetics and improve utility reliability. The Village has already fronted the costs for the utilities, ComEd, AT&T and Comcast to perform their portion of the work, when directed, and it is the Village's responsibility to provide all the equipment pads, hand-holes and conduit duct packages to accommodate the necessary cables. \$50,000 is provided for this work which includes the remainder of the work on S. Harrison, between the new bridge and Washington, Washington, between S. Harrison and the Towne Park parking lot, Jefferson, and the stretch along the south side of Crystal Creek, as it flows through Towne Park, from Jefferson to the bypass. This work must be completed in advance of any additional streetscape work to come in the future. This DURP (dry utility undergrounding project) work will not interfere with any proposed development work that may move forward in the historic downtown area, and pausing any additional streetscape work will provide additional time for any development work on the bank property to occur, allowing the Village's streetscape work to be complimentary, and not in conflict, with any of that construction.

- Downtown Streetscape Main Street - IL 62 to Edward St - \$10,000 is allocated for the final phase of the downtown streetscape improvement projects. The limits of this project will be from IL-62 (south limits) to just north of Edward Street to match the south limits of the roundabout project. The scope includes roadway rehabilitation, curb and gutter and sidewalk replacement, roadway lighting, and decorative landscape restoration in the parkway. This project is eligible for STP funding and will gain additional points for beginning Phase I Engineering prior to the call of projects in March 2024. Therefore, these funds are to award Phase I and complete the funding application.
- Downtown Streetscape Main Street & Harrison Street Bike Path & Roundabout - \$50,000 is allocated for this project which involves the construction of a modern Round-a-Bout (RAB) at the intersection of North Main Street and Cary-Algonquin Rd., the reduction of overall vehicular pavement on North Main St. between the RAB and Riverview Ln., the installation of an off-pavement Bike Path on North Main St. to Riverview Ln., On-pavement Bike path down Park St. and North Harrison, continuing to the MCCD Bike path on South Harrison. There will also be Streetscape improvements along North and South Harrison with Brick pavers and speed tables. The project is funded through several grants and funding from McHenry County.
- Downtown Streetscape Washington & South Harrison Streetscape - \$30,000 is allocated for this project which is another continuation of the Downtown Streetscape multi-phased plan. The scope of this project takes the downtown streetscape enhancements, using all the same design elements of Main Street, and extends work on S. Harrison Street, from Algonquin Road to Washington Street, the intersection of Washington Street and S. Harrison, and the public plaza area on Washington, from S. Harrison to Main Street. The intersection at Washington and S. Harrison will be a brick intersection (similar to Main Street). The public plaza will be a curbsless section that can be closed for public events, allowing pedestrians and patrons to gather safely in that area to enjoy entertainment without worrying about tripping on curbs. Walkways will be protected from traffic on normal days by planters, seat-walls, bollards and lighting standards. Tivoli lighting and pedants hung from cabling will light the area and create a very inviting atmosphere for the area businesses and customers.

- Eastgate Road Library Improvements - \$75,000 is allocated for this project which involves pavement rehabilitation and widening to accommodate on-street parking for the Eastgate Library, curb and gutter replacement, selective sidewalk replacement, ADA and pedestrian upgrades, minor underground improvements, signing, striping, and landscape restoration. The Village is in coordination with the Algonquin Public Library as their facility is set for an [expansion](#) in 2023. This project also involves necessary land acquisition from St. Margaret Mary's School property for the on-street parking.
- High Hill Subdivision - \$100,000 is provided for construction oversight on this project. The work in the High Hill Subdivision will involve curb and driveway patching, minor drainage system repairs and pavement resurfacing and repair, as necessary. The work will involve improvements to Winchester, Sussex, Jester, Kirkland, Majestic, Chatham, Bristol and Regal Drive.
- North River Road - As this roadway nears its next cycle of reconstruction, phase one engineering will begin the tedious project which must be done relative to this roadway prior to its next reconstruction, right of way delineation and acquisition. The historic documents relative to this roadway do not clearly define full and clear Village ownership of the right of way in which the road resides. \$30,000 is allocated for this project which will work to bring this roadway in to clear legal definitions and ownership as well as begin the design process for its next repair cycle.
- PAVER Analysis Maintenance - Last year the Village participated in a program offered through CMAP to have our roads analyzed and rated. The information from this analysis is put into a software program called PAVER. Last fiscal year, we signed a contract with Chastain & Assoc. to run road construction scenarios in this program each year. They have staff members who are well versed in the software and can provide us the best analysis of the data. \$6,000 is allocated for updates to this program.
- Randall Road Wetland Complex - \$7,000 is allocated for this project which includes improving the existing wetland complex between Randall Road & Stonegate Road including a berm and water control structure to enhance upland water features and provide on-line detention for several contiguous public and private development projects. An existing turf grass detention will be retrofitted and shaped to provide additional storm water capacity, a portion of Ratt Creek will be stabilized, and invasive species will be physically and chemically removed.
- Ratt Creek Reach 5 - This creek is also experiencing heavy erosion and down cutting causing siltation to build up behind the dam. This area is identified in the Jelkes Creek-Fox River Watershed Plan as a critical area for water quality protection. \$5,000 is allocated for construction oversight.
- Rolls Road Rehabilitation - \$90,000 is budgeted for the roadway rehabilitation of Rolls Road. This project will include roadway rehabilitation using the FDR process, selective curb and sidewalk replacement, pavement marking, underground utility assessments, and landscape restoration.
- Souwanas & Schuett Streets - \$150,000 is provided to complete phase 2 engineering, preparing the plans and specs for a June IDOT letting, for this project which involves

narrowing the existing roadway, replacement of all curb & gutter, partial replacement of sanitary sewer (which will be budgeted in W&S Improvement Fund), storm sewer repair, and replacement of the failed box culvert on Souwanas. The project also includes upgrading Souwanas between Scott and the Fox River from a rural cross section to an urban cross section with curb and gutter and proper drainage. Pedestrian sidewalks will be installed on the entire length of Souwanas, between Sandbloom and Ocoola.

- Tunbridge - \$150,000 is provided in this line item for construction oversight for both sections of the Tunbridge Subdivision. The area proposed to be constructed is the area of Tunbridge subdivision south of Sawmill Drive in Dawson Mill subdivision, west of Golf Club of Illinois, and south to County Line Road. The project scope will include topographical survey, geotechnical analysis of subbase conditions, select curb and gutter removal and replacement, sidewalk repair (per the Public Works Department survey results) bike path replacement, storm structure assessment and repair/replacement, and subbase repair and new asphalt driving surface. These road sections are between 26 and 28 years old and have never been resurfaced.
- Willoughby Farms Section 1 - \$20,000 is provided for Phase II engineering to add drainage improvements on Haverford and to provide plan updates. Monies are being provided in this line item for Phase 3 Construction Oversight services for Willoughby Farms Section 1. The area being constructed is within the entire quarter quarter-section that includes the area south of County Line Road to the Westfield School property, on the south, and from the Gallery Center, on the west, to Sleepy Hollow, on the east. The project scope will include topographical survey, geotechnical analysis of subbase conditions, select curb and gutter removal and replacement, sidewalk repair (per the Public Works Department survey results) bike path replacement, storm structure assessment and repair/replacement, and subbase repair and new asphalt driving surface. Barrier curb will be installed around the entire perimeter of the Willoughby Farms Park to prevent motorists and park patrons from driving into the park and creating turf damage.
- Contract Engineer - \$100,000 is provided to contract for onsite engineering services to assist staff in managing the large number of RFPs and contracts that will be flowing through the Public Works Administration offices over the next several years. The scope of services for this individual may include generation of RFPs for design and field services, plan review and comment, customer service and correspondence, and contract administration. The contract engineer will be under the direction of the Public Works Director and will work jointly to assist Village staff.
- PR Firm - \$35,000 is provided for Public Works to hire a public relations firm to assist the department to provide improved communication about infrastructure improvements projects within the Village. They will assist with public meetings in advance of construction, project brochures, social media content, email list blasts, individual project websites with updated schedules, traffic pattern information, project updates and photos.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$3,025,000 – The anticipated projects include the following:

- 20 Washington Street Parking Lot - \$15,000 is allocated for the project which includes drainage improvements and a simple parking area at the Northeast corner of Washington St. and S. Harrison St. This project will also include the resurfacing of the existing municipal lot on Washington Street.
- Brick Paver Maintenance - \$200,000 is provided in this line item to repair failed brick pavers.
- High Hill Subdivision - \$1,300,000 is provide for the work in the High Hill Subdivision which will involve curb and driveway patching, minor drainage system repairs and pavement resurfacing and repair, as necessary. The work will involve improvements to Winchester, Sussex, Jester, Kirkland, Majestic, Chatham, Bristol and Regal Drive.
- Reclamite Treatment. \$160,000 is provide for this product which we apply on all our roads within a year after they are constructed. It is an asphalt rejuvenator that helps to extend the life of asphalt pavement.
- Retaining Wall Maintenance - The 25-year-old concrete segmental block walls on Edgewood Drive, between Main Street (IL-31) and West End Drive have failed significantly over the past several years due to aging, weathering and salt damage from snow and ice removal. Failure of these walls would be catastrophic, as they hold up the bluffs on the north side of the road. These walls must be replaced. We will propose to do this as a Design Build project with Burke LLC to get this done quickly and efficiently with a team that is capable of handling this difficult project, in a confined area with high traffic. \$1,000,000 is allocated for this work.
- Route 62 Bridge Deck - When IDOT resurfaced the bridge deck last year the Village paid to have the decorative railings replaced and painted. Since this was an IDOT job, we are waiting for them to invoice our portion of the cost, which is about \$50,000.
- Willoughby Farms Section 1 - The area being constructed is within the entire quarter quarter-section that includes the area south of County Line Road to the Westfield School property, on the south, and from the Gallery Center, on the west, to Sleepy Hollow, on the east. The project scope will include topographical survey, geotechnical analysis of subbase conditions, select curb and gutter removal and replacement, sidewalk repair (per the Public Works Department survey results) bike path replacement, storm structure assessment and repair/replacement, and subbase repair and new asphalt driving surface. Barrier curb will be installed around the entire perimeter of the Willoughby Farms Park to prevent motorists and park patrons from driving into the park and creating turf damage. \$300,000 is allocated as a placeholder to begin this project.

ACCOUNT 45593 – CAPITAL IMPROVEMENTS - \$8,816,000 – the anticipated projects include the following:

- Downtown Streetscape - Crystal Creek Bridge Replacement - This project was completed in 2019 but was delayed due to private utility relocations. The project received federal funding and was constructed with State standards. As a result of the utility delays, the Village is responsible for paying compensable delays to the contractor. Staff expects this item to be finalized in FY24. \$570,000 is included in this budget are the expected delay costs to be paid by the Village to close out this project.
- Downtown Streetscape Dry Utility Lowering - As the Village continues its streetscape upgrades and improvements, the next phase is to continue the undergrounding of all the overhead utilities to enhance aesthetics and improve utility reliability. The Village has already fronted the costs for the utilities, ComEd, AT&T and Comcast to perform their portion of the work, when directed, and it is the Village's responsibility to provide all the equipment pads, hand-holes and conduit duct packages to accommodate the necessary cables. \$2,300,000 is included for this work which includes the remainder of the work on S. Harrison, between the new bridge and Washington, Washington, between S. Harrison and the Towne Park parking lot, Jefferson, and the stretch along the south side of Crystal Creek, as it flows through Towne Park, from Jefferson to the bypass. This work must be completed in advance of any additional streetscape work to come in the future. This DURP (dry utility undergrounding project) work will not interfere with any proposed development work that may move forward in the historic downtown area, and pausing any additional streetscape work will provide additional time for any development work on the bank property to occur, allowing the Village's streetscape work to be complimentary, and not in conflict, with any of that construction.
- Downtown Streetscape Main Street & Harrison Street Bike Path & Roundabout - \$1,500,000 is allocated for this project which involves the construction of a modern Round-a-Bout (RAB) at the intersection of North Main Street and Cary-Algonquin Rd., the reduction of overall vehicular pavement on North Main St. between the RAB and Riverview Ln., the installation of an off-pavement Bike Path on North Main St. to Riverview Ln., On-pavement Bike path down Park St. and North Harrison, continuing to the MCCD Bike path on South Harrison. There will also be Streetscape improvements along North and South Harrison with Brick pavers and speed tables. The project is funded through several grants and funding from McHenry County. Additional funds provided to cover expected compensable delay costs due to AT&T, Nicor, and Comed utility delays.
- Downtown Streetscape Riverwalk & South Harrison Street Bridge – A total of \$2,500,00 is allocated for this project which is a continuation of the Village's Downtown Streetscape multi-phased improvement plans. The scope of the project involves the total replacement of the S. Harrison Street Bridge (wider and less restrictive to the high flows of Crystal Creek), regrading and natural/hardscape reinforcement of the creek bed thereby lowering the surrounding flood elevations and making Village-owned lands marketable for redevelopment, trail/walkway enhancements connecting Towne Park and Cornish Park via an attractive pedestrian link to downtown that will include lighting, architectural railings, and other visually pleasing amenities to compliment the area.
- Randall Road Wetland Complex - \$106,000 is allocated for this project which includes improving the existing wetland complex between Randall Road & Stonegate

Road including a berm and water control structure to enhance upland water features and provide on-line detention for several contiguous public and private development projects. In stage 1, an existing turf grass detention will be retrofitted and shaped to provide additional stormwater capacity, a portion of Ratt Creek will be stabilized, and invasive species will be physically and chemically removed.

- Ratt Creek Reach 5 - Now that the Harper Drive bike path connection has been constructed, \$40,000 is allocated to clean up and restore the creek and the High Hill Dam detention area. This will make a much more pleasurable experience of the natural area for people using the path. This creek is also experiencing heavy erosion and down cutting causing siltation to build up behind the dam. This area is identified in the Jelkes Creek-Fox River Watershed Plan as a critical area for water quality protection.
- Souwanas & Schuett Streets - \$1,400,000 is allocated for this project which is being partially funded by Surface Transportation fund through CMAP and the McHenry Council of Mayors in the amount of \$1.5M, with the difference to complete the work being funded through local Street Improvement funds. The project involves narrowing the existing roadway, replacement of all curb & gutter, partial replacement of sanitary sewer on Souwanas, and watermain replacement on Schuett (which will be budgeted in W&S Improv Fund), storm sewer repair, and replacement of the failed box culvert on Souwanas. The project also includes upgrading Souwanas between Scott and the Fox River from a rural cross section to an urban cross section with curb and gutter and proper drainage. Pedestrian sidewalks will be installed on the entire length of Souwanas, between Sandbloom and Oceola.
- Rolls Road Rehabilitation - In the 2021 Pavement Assessment, Rolls Road was rated in serious condition as the base is failing and the surface is full of potholes and significant cracking. Sole access to many high-volume restaurants goes through Rolls Road as does the main entrance to Lifetime Fitness. \$400,000 is allocated for this project which will include roadway rehabilitation using the FDR process, selective curb and sidewalk replacement, pavement marking, underground utility assessments, and landscape restoration.

SUMMARY OF STREET IMPROVEMENT BUDGET

By implementation of the Street Improvement Budget, the village can continue to accomplish major road improvements in many areas. Planning and engineering of future road projects and preparing for an opportunity for additional grant funding will help maintain the growing road infrastructure needs for the next several years.

Attachments

Street Improvement Fund

Revenues

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 23/24
			Actual	Actual	Actual	Q2	Budget	Budget
04000500	31011	Home Rule Sales Tax	\$ 3,833,333.16	\$ 3,931,091.31	\$ 4,743,846.57	\$ 2,146,635.85	\$ 4,900,000.00	\$ 4,650,000.00
04000500	31190	Telecommunications Tax	228,372.59	176,225.98	159,599.16	81,380.82	150,000.00	135,000.00
04000500	31495	Utility Tax Receipts	898,906.00	902,073.92	916,953.93	444,182.21	903,500.00	905,000.00
04000500	33012	Intergovernmental Agreement	-	-	-	-	-	-
04000300	33032	Donations - Operating - PW	5,226.94	-	-	-	-	-
04000300	33052	Donations - Capital - PW	174,922.00	-	-	60,610.43	-	-
04000300	33252	Grants - Capital - PW	50,000.00	128,403.50	-	-	400,000.00	-
04000500	36001	Interest	510.46	257.24	189.92	69.07	100.00	-
04000500	36020	Interest - Investment Pools	77,680.05	7,455.64	4,464.15	53,122.26	1,400.00	10,000.00
04000500	38001	Transfer - General Fund	3,470,000.00	3,000,000.00	5,500,000.00	3,317,607.44	633,000.00	3,300,000.00
04000500	38016	Transfer - Special Reveune Fund	-	-	-	-	-	-
04000500	38060	Transfer - Special Service Area	-	-	-	-	-	-
Street Improvement Fund Total			\$ 8,738,951.20	\$ 8,145,507.59	\$ 11,325,053.73	\$ 6,103,608.08	\$ 6,988,000.00	\$ 9,000,000.00
Balance Sheet Adjustment								
04	18000	Advance From Street Impr.	\$ -	\$ -	\$ -	\$ -	\$ 3,150,000.00	\$ 1,700,000.00
Street Improvement Fund Total			\$ 8,738,951.20	\$ 8,145,507.59	\$ 11,325,053.73	\$ 6,103,608.08	\$ 10,138,000.00	\$ 10,700,000.00

Notes: Ordinance 2022-O-05 amended the home rule retailers' occupation tax and service occupation tax to a rate of one percent (1.00%). Allocations in FY 23/24 for home rule sales tax are as follows: 75% to the Street Improvement Fund; 12.5% to the Park Improvement Fund; and 12.5% to the Natural Area and Improvement Fund.

Utility tax receipts are based on use tax charges on energy usage for natural gas (Nicor) and electricity (ComEd). ComEd is based on kilowatt (KW) hours, and Nicor is based on therms.

Street Improvement Fund

Expenditures

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 23/24	FY 23/24	FY 23/24
			Actual	Actual	Actual	Q2	Budget	Dept.	Manager	Budget
04900300	42230	Legal Services	\$ 14,621.25	\$ 9,629.96	\$ 49,763.29	\$ 2,057.50	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ -
04900300	42232	Engineering/Design Services	876,078.56	792,642.39	2,063,727.69	350,034.10	1,554,000.00	1,074,000.00	1,074,000.00	-
04900300	43370	Infrastructure Maintenance	549,321.67	306,665.91	3,553,388.08	688,778.80	3,220,000.00	3,125,000.00	3,025,000.00	-
04900300	45593	Capital Improvements	4,355,058.71	5,313,256.56	2,655,646.08	2,438,488.78	13,325,000.00	8,416,000.00	8,816,000.00	-
04900300	45595	Land Acquisition	320.00	2,500.00	31,154.16	601.25	-	-	-	-
04900500	48026	Transfer to Nat. Area/Drainage Fund	-	-	580,900.00		-	-	-	-
Street Improvement Fund Total			\$ 5,795,400.19	\$ 6,424,694.82	\$ 8,934,579.30	\$ 3,479,960.43	\$ 18,114,000.00	\$ 12,630,000.00	\$ 12,930,000.00	\$ -



VILLAGE OF ALGONQUIN
GENERAL SERVICES ADMINISTRATION

– M E M O R A N D U M –

DATE: January 18, 2023

TO: Committee of the Whole

FROM: Tim Schloneger, Village Manager

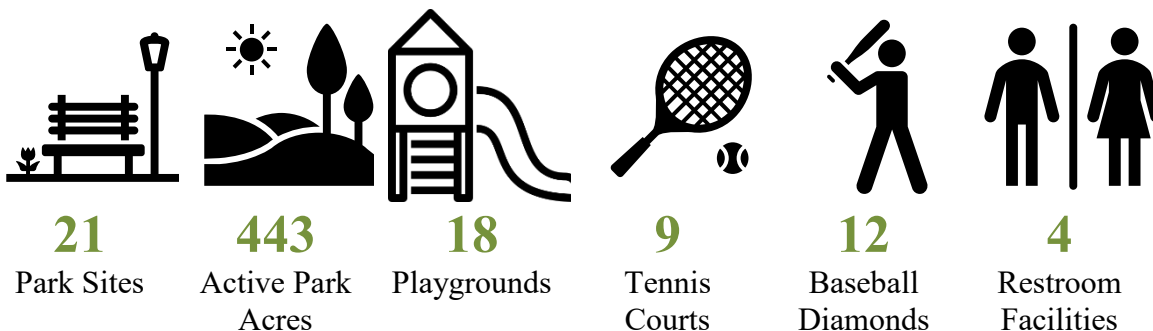
SUBJECT: Proposed Capital Budget – 2023/2024 – Park Improvement Fund

OVERVIEW

The Park Improvement Fund is utilized for the acquisition, development, and improvement to parklands. Through it, the village provides a comprehensive park system that provides recreational opportunities for all residents while protecting assets, natural resources and open space for the benefit of present and future generations.

During the high growth years, park impact fees, paid by developers, financed many new park development and other enhancements. With the evolving market for new construction, the revenue generated from park impact fees has become less predictable and more intermittent. Furthermore, the recreational improvements built during the growth years are substantial and require systematic maintenance. Therefore, the Village has dedicated four recurring revenue streams to protect and preserve the standards of excellence expected by the community. First, video gaming revenue received via the state (5% of net terminal income) is deposited into the Park Improvement Fund. Second, “push tax” revenue payable by Video Gaming Terminal Operators, as the designated tax collector, is allocated here. Third, a portion (2.25% tax rate) of the revenue from the village’s telecommunications tax is also dedicated to the fund. And finally, 12.5% of the revenue from the Village’s home rule retailers' occupation tax and service occupation tax is dedicated to finance scheduled improvements.

Village of Algonquin Park System



In addition to dedicated revenue streams, this year a transfer from the Natural Area and Drainage Improvement Fund (\$155,000) will help finance the projects this fiscal year.

PARK IMPROVEMENT FUND REVENUES - \$1,930,000

Revenues include \$775,000 from Home Rule Sales Tax, \$180,000 in video gaming terminal tax receipts, \$200,000 from the Video Gaming Push Tax, \$112,500 from the dedicated portion of the telecommunications tax, \$5,000 in reforestation donations, \$500,000 in OSLAD grants for park development, \$2,500 in investment interest, and an \$155,000 inter-fund transfer from the Natural Area and Drainage Improvement Fund.

In addition to these dedicated monies, a \$383,000 drawdown in fund reserves will balance the fund.

PARK IMPROVEMENT FUND EXPENDITURES - \$2,313,000

ACCOUNT 42232 – ENGINEERING AND DESIGN - \$603,000

- Kelliher Park Pickleball Court - The Village is redesigning and repurposing the severely failing tennis courts at Kelliher Park on Square Barn Road. We are converting this under-used tennis facility to two side-by-side pickle ball courts, similar to those at Stoneybrook Park. \$5,000 has been provided to final out this project.
- Presidential Park - This park has been determined in our [Parks and Recreation Master Plan](#) to be one of our renovation priorities in the Village. The plan provided some conceptual options to be considered, and further staff discussions have included a premier baseball facility with proper stands, sound system, lighting, synthetic infield and enhance drainage and irrigation, new washroom and concession facilities, storage, dugouts, home run fencing, storm water management, relocated parking lot and access points, new modern multi-age playground, challenge course for exercise, and improved walking paths. The amount of soccer fields may be reduced, but the one field would be enhanced and improved. Enhanced landscaping and addition trees would also be added to provide a welcoming feel to the site. We have included \$300,000 which will conclude engineering design for the entire site.
- Towne Park - We are proposing \$278,000 for continuing engineering based off the [conceptual plan](#) developed last fiscal year for the redevelopment of Towne Park. This is one of very impactful pieces of the redevelopment program for Old Town Algonquin area.
- Willoughby Farms Park Tennis Court - \$5,000 has been provided to finalize the substantial reconstruction of the Willoughby Farms Park tennis courts.
- Woods Creek Reach 5 Restoration - \$5,000 is provided to final out the next reach of Woods Creek, between just north of Woods Creek to a point just east of Rock River Court. This restoration project is similar to those completed upstream and includes bank stabilization, opportunistic tree removal, re-establishing the native vegetation, and inclusion of cross vanes and rock riffles to improve habitat.
- Willoughby Farms Park Master Plan – We are proposing to begin the master planning process for Willoughby Farms Park in early 2024 with the goal of completion in the

following fiscal year. Public feedback will be solicited to inform the redevelopment plan, which will also consider any proposed development to the west and connections to Westfield Community School. \$10,000 has been allocated to begin this process.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$0

- No projects are planned this fiscal year.

ACCOUNT 44402 – REFORESTATION - \$100,000

- Funding is provided for reforestation of parkway planting areas within the Village that have not previously possessed a tree. This funding is provided by the reforestation fee assessed to developers for mitigation of tree loss during development as prescribed in Chapter 5, Section 15 of Village Code.

ACCOUNT 44408 – WETLAND MITIGATION - \$0

- No projects are planned this fiscal year.

ACCOUNT 44425 – MAINTENANCE – OPEN SPACE - \$0

- No projects are planned this fiscal year.

ACCOUNT 45593 – PARK DEVELOPMENT - \$1,610,000

- Holder Park Playground & Fence - \$475,000 is allocated to replace the playground at Holder Park as well as the fence around the ball field.
- Kelliher Park Pickleball Court - The Village is redesigning and repurposing the severely failing tennis courts at Kelliher Park on Square Barn Road. We are converting this under-used tennis facility to two side-by-side pickle ball courts, similar to those at Stoneybrook Park. \$45,000 has been provided to final out this project.
- Snapper Park Playground - This project was started last fiscal year. It was for the replacement of the playground in Snapper Park. \$100,000 is allocated to finalize this project.
- Willoughby Farms Park Tennis Court - \$110,000 has been provided for the substantial reconstruction of the Willoughby Farms Park tennis courts. We need to final out this project in this fiscal year.
- Wood Park Playground - \$300,000 is allocated to replace the playground at Wood Park.
- Woods Creek Reach 5 Restoration - \$80,000 is provided to final out the next reach of Woods Creek, between just north of Woods Creek to a point just east of Rock River Court. This restoration project will be similar to those completed upstream and will include bank stabilization, opportunistic tree removal, re-establishing the native vegetation, and inclusion of cross vanes and rock riffles to improve habitat.

- Presidential Park (OSLAD Grant) - \$250,000 is budgeted to begin the [reconstruction of this park site](#), including soccer fields, playground, challenge course, fitness area, restroom facility/open air shelter and baseball facilities. A majority of the project work will occur in FY 24/25 during the summer construction season. The Village has secured a \$400,000 grant for this project.
- Towne Park (OSLAD Grant) - \$250,000 is budgeted for the improvements that will include an updated park layout, improved visitor access for all users (bicyclists, motorists, pedestrians), new playground equipment, new shelter/picnic area, improved walking paths, enhanced natural areas, and the addition of an amphitheater. Similar to Presidential Park, some preliminary work will begin in FY 23/24 with more substantial work occurring in FY 24/25. The Village is awaiting a final decision on its grant application for \$600,000 for this project.

Attachment

Park Improvement Fund

Revenues

			FY 19/20 Actual	FY 20/21 Actual	FY 21/22 Actual	FY 22/23 Q2	FY 22/23 Budget	FY 23/24 Budget
06000500	31011	Home Rule Sales Tax	\$ -	\$ -	\$ 97,126.15	\$ 219,836.21	\$ 500,000.00	\$ 775,000.00
06000500	31175	Video Gaming Terminal Tax	114,787.26	90,497.38	176,241.11	95,168.74	150,000.00	180,000.00
06000500	31176	Video Gaming Push Tax	-	-	-	-	200,000.00	200,000.00
06000500	31190	Telecommunications Tax	192,847.99	148,813.03	134,908.20	6,896.79	125,000.00	112,500.00
06000300	33052	Donation - Capital - PW	183,963.00	107,911.00	11,856.00	-	-	-
06000300	33150	Donation - Ecosystem Maint.	-	-	-	-	-	-
06000300	33152	Donation - Reforestation	2,700.00	400.00	106,700.00	104,350.00	5,000.00	5,000.00
06000300	33153	Donation - Watershed	8,935.00	1,900.00	700.00	(700.00)	-	-
06000300	33155	Donation - Wetland Mitigation	2,600.00	-	-	-	-	-
06000300	33232	Grants - Operating - PW	10,000.00	-	-	-	-	-
06000300	33252	Grants - Capital - PW	28,170.00	436,886.25	4,943.75	200,000.00	660,000.00	500,000.00
06000500	36001	Interest	266.37	105.20	31.85	17.45	-	-
06000500	36020	Interest - Investment Pools	13,249.79	770.58	56.29	4,885.14	-	2,500.00
06000500	38001	Transfer - General Fund	142,500.00	-	-	1,162,000.00	502,000.00	-
06000500	38###	Transfer - Natural Area Fund	-	-	-	-	-	155,000.00
Park Improvement Fund Total			\$ 700,019.41	\$ 787,283.44	\$ 532,563.35	\$ 1,792,454.33	\$ 2,142,000.00	\$ 1,930,000.00

Notes: Ordinance 2022-O-05 amended the home rule retailers' occupation tax and service occupation tax to a rate of one percent (1.00%). Allocations in FY 23/24 for home rule sales tax are as follows: 75% to the Street Improvement Fund; 12.5% to the Park Improvement Fund; and 12.5% to the Natural Area and Improvement Fund.



VILLAGE OF ALGONQUIN
GENERAL SERVICES ADMINISTRATION

- M E M O R A N D U M -

DATE: January 17, 2023

TO: Committee of the Whole

FROM: Tim Schloneger, Village Manager

SUBJECT: Proposed Capital Budget – 2023/2024 – Natural Area & Drainage Improvement Fund

OVERVIEW

The Natural Area and Drainage Improvement Fund is utilized to improve water quality through refined stormwater management, flood reduction, enriched natural area management, groundwater recharge protection, utilization of green infrastructure, and control of invasive species. The goal is to enhance ecosystem benefits within the Village's watersheds and ultimately the Fox River.

Historically, these projects have been financed in both the Street Improvement Fund and the Park Improvement Fund. As these projects have evolved from supplemental infrastructure in our park system and along our roadways to its own distinctive infrastructure type, setting up a framework to put these projects under one budgetary umbrella is long overdue.

NATURAL AREA & DRAINAGE FUND REVENUES - \$782,500

Revenues include \$775,000 in Home Rule Sales Tax, \$5,000 in Watershed Donations, and \$2,500 in investment interest. A draw down in available reserves of \$1,123,500 will balance the fund.

NATURAL AREA & DRAINAGE FUND EXPENDITURES - \$1,906,000

ACCOUNT 42232 – ENGINEERING AND DESIGN - \$515,000

- Dixie Creek Reach 3 Restoration - \$30,000 is allocated for this project which involves restoration of the creek and riparian corridor from Wynnfield Drive to the [Dixie Briggs Fromm](#) property which was restored by [Dundee Township](#). This is the next portion that is downstream from the recently restored Creek Crossing corridor and represents a green infrastructure link between the two restored properties. This project will correct major erosion of the creek banks behind the homes on Notting Hill Road as well as the restoration of a high-quality fen and detention on White Chapel Drive that is listed as a critical restoration area in the [Woods Creek Watershed Plan](#).

- Ratt Creek Harper Drive Culvert Emergency Repair - \$20,000 is allocated for this repair which was started last fiscal year as it was an emergency project. There is a culvert that runs under Harper Drive and the stream on the down side of this had been reinforced by gabion baskets and rocks approximately 15 years ago. These have now washed out and the wire baskets were failing which had the possibility to undermine Edgewood Drive should a significant storm event occur.
- Stormwater Master Plan - To date, the Village has conducted hydrologic and hydraulic analyses for various improvement projects throughout several study areas. In this study, we expanded these analyses to focus on flood reduction assessments and included other area not previously studied. Staff understands that the focus of the effort will be to identify drainage and flooding problems within the context of structure and street flooding during large storm events. The Plan will include for each study area, an existing condition analysis to determine level of service, recommended improvements and a cost estimate for the identified improvements. \$20,000 is budgeted to final out this plan.
- Surrey Lane Reach 2 Creek Restoration - \$95,000 is allocated for this project which involves restoration of the creek and riparian corridor from the Surrey Lane preserve to Surrey Lane. This is the portion that is upstream from the recently restored Surrey Lane Preserve project. This project will correct major erosion of the creek banks behind the homes on Surrey Court and Zange Drive. This erosion is causing sediment build up in the newly dredged detention pond in the Surrey Lane Preserve so we want to stabilize this entire creek section.
- Windy Knoll & Oakview Drive Ravines - \$150,000 is allocated for this project which entails the extension of three existing storm sewers to Ratt Creek. The current configuration discharges a storm water into ditches on private property that has been scouring and eroding their backyards for a number of years. The storm sewer would eliminate the backyard erosion.
- Woods Creek Reach 6&7 - \$70,000 is allocated for this project which involves restoration of the creek and riparian corridor in the middle section of the Woods Creek Riparian Corridor north of Bunker Hill Drive. This project will correct major erosion of the creek banks as well as the restoration of a high-quality fen and detention area.
- Woods Creek Reach 8 - \$130,000 is allocated for this project which involves restoration of the creek and riparian corridor in the last section of the Woods Creek Riparian Corridor north of Bunker Hill Drive that is located in the Village of Algonquin. This project will correct major erosion of the creek banks as well as the restoration of several seeps and fens.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$536,000

- Holder/Woods Creek Trail Detention Maintenance - \$15,000 is allocated for this final year of the maintenance period for naturalizing these facilities through a grant we received from the Green Energy Foundation.
- Lake Drive South Detention Maintenance - \$15,000 is allocated for this year of maintenance.

- Natural Area Maintenance - Each year the Village performs an inspection of our restored natural areas with the Village Ecologist. From this inspection, a series of maintenance steps are created, which need to occur in each area on an on-going basis in order to keep the areas in their pristine conditions and to alleviate them from turning to weedy and un-maintained spaces. Keeping these areas maintained is important to keeping the proper habitat allowing wildlife to flourish. This allows our residents a chance to experience this in their own community. Keeping proper vegetation in the natural areas also insures that they function as they were designed. Proper plants and habitat are important for the filtering process. Most of these areas provide improved groundwater infiltration and aid in water quality. \$140,000 is allocated for this year's program.
- Randall Road Wetland Complex - \$50,000 is allocated for the maintenance establishment period.
- Ratt Creek Harper Drive Culvert Emergency Repair - \$100,000 is allocated for this repair which was started last fiscal year as it was an emergency project. There is a culvert that runs under Harper Drive and the stream on the down side of this had been reinforced by gabion baskets and rocks approximately 15 years ago. These have now washed out and the wire baskets were failing which had the possibility to undermine Edgewood Drive should a significant storm event occur.
- Ratt Creek Reach 5 - \$20,000 is allocated for this project which is in the maintenance establishment period.
- Stoneybrook Park Naturalized Detention - \$6,000 is allocated for this project which is in the maintenance establishment period.
- Storm Sewer Lining - \$160,000 is allocated to contract storm sewer lining and storm manhole lining to rehabilitate some areas in the drainage system that present problems or failures. These usually come up throughout the year when a sink hole forms on a property or in the road. This money will allow us to do a more permanent fix and extend the life of the pipe or structure before a major excavation project needs to be done. The amount has increased this year because there is a major failure in the culvert that runs under Sandbloom road through which Souwanas Creek drains. The bottom of the culvert is completely rusted out and, should it fail, will compromise Sandbloom Road.
- Terrace Hill Natural Area Maintenance - \$10,000 is allocated toward the 3-year maintenance period for the portions of the Terrace Hill project that we naturalized. This includes the detention basin in Wood Park and Woods Creek reconstruction.
- Woods Creek Reach 5 - \$20,000 is allocated toward the maintenance establishment period.

ACCOUNT 44408 – WETLAND MITIGATION - \$200,000

- \$200,000 is allocated for this project which uses the mitigation funds collected from the CarMax and Westview Crossing Developments to restore and naturalize a green corridor on these parcels. This project was started last fiscal year and these funds are rolled over to complete the project.

ACCOUNT 45593 – CAPITAL IMPROVEMENTS - \$500,000

- Dixie Creek Resch 3 - \$300,000 is budgeted to continue construction for a very failed section of Dixie Creek Reach 3 which is directly downstream from the Creeks Crossing/Dixie Creek Preserve restoration. This section is located between Wynnfield Drive and the Dixie Briggs Fromm Preservation area owned by Dundee Township. The creek drains through here, through Lake Braewood down to Edgewood Road and eventually to the Fox River. This creek makes about a 90-degree turn just south of the township property, which creates uncharacteristic flow patterns downstream that tend to exacerbate erosion to private and public open space property downstream. This section of Souwanas Creek has been blamed for erosion and silt deposits in Lake Braewood and the township property.
- Spella Southwest Fen Restoration - \$200,000 is allocated for this area which is located at the southwest headwater of the Spella Wetland. This area consists of an old farming pond and has several high-quality fens that are being overtaken by invasive tree and shrub species. In order to protect these sensitive areas and improve water quality and groundwater infiltration before it enters the Spella Wetland, we are proposing to do a restoration here.

ACCOUNT 48006 – TRANSFERS - \$155,000

A transfer to the Park Improvement Fund of \$155,000 is budgeted to finance natural area and drainage projects have been programmed in the current and upcoming fiscal years.

Attachment

Natural Area and Drainage Improvement Fund

Revenues

			FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 22/23	FY 23/24
			Actual	Actual	Actual	Q2	Budget	Budget
26000500	31011	Home Rule Sales Tax	\$ -	\$ -	\$ 97,126.15	\$ 219,836.21	\$ 500,000.00	\$ 775,000.00
26000300	33032	Donations - Operating - PW	\$ -	\$ -	\$ 836.77	\$ -	\$ -	\$ -
26000300	33153	Donation - Watershed	-	-	-	202,663.85	5,000.00	5,000.00
26000300	33155	Donation - Wetland Mitigation	-	-	-	99,100.00	-	-
26000300	33252	Grants - Capital - PW	-	-	-	-	860,000.00	-
26000500	36001	Interest	-	-	33.07	40.72	-	-
26000500	36020	Interest - Investment Pools	-	-	-	4,342.46	-	2,500.00
26000500	38004	Transfer - Street Imp. Fund	-	-	580,900.00	-	-	-
26000500	38001	Transfer- General Fund	-	-	-	1,325,000.00	465,000.00	-
26000500	38006	Transfer - Park Imp. Fund	-	-	135,000.00	-	-	-
Natural Area and Drainage Improvement Fund Total			\$ -	\$ -	\$ 813,895.99	\$ 1,850,983.24	\$ 1,830,000.00	\$ 782,500.00
<p>Notes: Ordinance 2022-O-05 amended the home rule retailers' occupation tax and service occupation tax to a rate of one percent (1.00%). Allocations in FY 23/24 for home rule sales tax are as follows: 75% to the Street Improvement Fund; 12.5% to the Park Improvement Fund; and 12.5% to the Natural Area and Improvement Fund.</p>								

