

AGENDA  
COMMITTEE OF THE WHOLE  
SPECIAL MEETING  
February 4, 2020  
2200 Harnish Drive  
Village Board Room  
- AGENDA -  
7:00 P.M.

Trustee Brehmer– Chairperson  
Trustee Glogowski  
Trustee Steigert  
Trustee Sosine  
Trustee Spella  
Trustee Jasper  
President Schmitt

1. **Roll Call – Establish Quorum**
2. **Presentation for Capital Budget for 2020/2021**
  1. Proposed Water and Sewer Improvement and Construction Budget
  2. Proposed MFT and Street Improvement Budgets
  3. Proposed Park Improvement Budget
3. **Adjournment**



**VILLAGE OF ALGONQUIN  
MEMORANDUM**

DATE: January 23, 2020

TO: Committee of the Whole

FROM: Tim Schloneger  
Village Manager

SUBJECT: ***Proposed Capital Budget – 2020/2021  
Water and Sewer Improvement and Construction Fund***

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**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 \$1,906,000 (including a transfer of \$1,320,000 from the Water & Sewer Operating Fund), and expenditures are budgeted at \$21,990,000. IEPA Low Interest Loans are funding designated projects.

**REVENUES - \$1,906,000**

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

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**Water and Sewer Improvement and Construction Fund**  
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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.

On January 19, 2016 the Village Board adopted a new rate structure that took effect November 1, 2016. The new rates are not only fair and equitable, but are also based on an accurate cost of service analysis. The rate structure covers all costs of day-to-day operations, growth, depreciation and debt service for needed capital improvement projects.

**EXPENDITURES - \$21,990,000**

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 - \$1,930,000 - 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:

- Countryside Standpipe Rehabilitation - At Countryside Standpipe we are looking to partner with Suez Water/Advanced Solutions that perform Tank Maintenance & Professional Services. This is a program starts with a complete renovation of the standpipe 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. This company will make sure we are always in compliant with AWWA, EPA, and OSHA. Money budgeted is for baseline renovation, and therefore will flatten the budget annually. \$50,000 will pay for a consultant to be onsite while the work is progressing to ensure that specifications are being followed and quality work is performed on baseline rehab work.
- Downtown Streetscape Stage 2 - This work was substantially completed last FY and involved Construction Oversight Services necessary for installation sanitary sewer upgrades to wet utilities between the North Harrison Lift Station (north of the marina) to the Riverfront Lift Station near Port Edward Restaurant. \$20,000 has been provided to final out this project.

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**Water and Sewer Improvement and Construction Fund**

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- Downtown Streetscape Stage 3 - \$420,000 is provided for the Phase 3 Construction Oversight Services necessary for installation of potable water and sanitary sewer upgrades to wet utilities between the Riverfront Lift Station near Port Edward Restaurant and a new deep lift station in Zimmerman Park at LaFox Drive and Center Street. This will be a deep sewer that will eventually eliminate two lift stations and the sanitary sewer bottleneck that exists in the Algonquin Hills Subdivision, and get the Village one step closer to a new trunk sewer all the way to the treatment plant. This project will upgrade old water main, where needed, and replace any, and all lead services encountered during the project.
- MCC Upgrades WTP 1 & HSP's WTP 2&3 - \$20,000 is provide for the continuation of work from last FY. The construction involves replacement of an MCC (Motor Control Center) and the addition of other necessary electrical components at WTP no. 1. Work includes electrical drawings to bring the new MCC up to current code, to incorporate VFD's for the facility's high service pumps, and to provide integration with SCADA. Scope for the High Service Pump work includes the replacement of existing electric motors to motors with a heavier duty rating and more applicable to use with Variable Frequency Drives (VFD's). Additionally, VFD's will be added. The upgraded electric motors and addition of the VFD's will enable each facility to better meet system demands, reduce pressure fluctuations, realize electrical savings, and reduce wear-n-tear on equipment.
- PRV Replacement Program Year 1 - \$60,000 is provided for the plan to replace two PRV stations with upgraded versions similar to the facility installed at Springhill and County Line Road. The plan also eliminates two PRVs on the west side of town that have proven to be superfluous. The work will also eliminate about 1000 feet of 12-inch water main that is no longer critical to the operation of the distribution system and that runs under a wetland where it would be almost impossible to access.
- PRV Replacement Program Year 2 & 3 - \$160,000 is allocated to evaluate and replace PRV's. Replacement was defined in the Water System Master Plan.
- Ratt Creek Reach 5 (High Hill Dam Area) Water & Sewer Improvements (IM) - \$50,000 is provided to relocate sanitary and water mains from the High Hill Dam detention area that would be impossible for maintenance crews to access should they ever fail. Sanitary sewers will be moved to the perimeter of the site and around the dam, and water main will be relocated from under the board walk and creek to an area within the Harnish Drive ROW. This work will most likely span two fiscal years and two construction seasons due to its technical and constructability issues.

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- Risk & Resilience Study - The American Water Infrastructure Act of 2018 requires all public water systems to produce a Risk and Resilience Assessment (RRA). The Act gives utilities flexibility in choosing the specific approach and level-of-detail used to meet the requirements. AWWA recommends using the ANSI/AWWA J100 Standard Risk Analysis and Management for Critical Asset Protection (RAMCAP). \$50,000 will allow the Village's Water Division to team with EEI as a consultant to utilize the RAMCAP standard to perform the RRA for our utility and facilities. The act also requires the Village to update our Emergency Response Plans based on the results of the RRA. The Act requires all systems to certify completion of the Emergency Response Plan within 6 months of certifying the RRA. This process is an update and enhancement to our Vulnerability Assessments that were required and completed shortly after the 9/11 terrorist attacks in New York and the subsequent cyberattacks on water facilities on the east coast.
- WWTP Phase 6B Improvements - \$1,000,000 is allocated for Phase 3 Construction Services to oversee the construction of several large maintenance projects necessary to upgrade the existing WWTF to more manageable and serviceable conditions. The work includes complete upgrades to the anaerobic digestion system, expansion of the aerobic digestion system, replacement of the gravity belt thickeners, modernization of the Primary Clarifiers, electrical and SCADA upgrades, emergency power generation, and a new roof on the entire main complex.
- 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 the Project Manager.
- PR Firm - \$50,000 is provided to hire a public relations firm to address the ever increasing outcry for more, and better, communication about infrastructure improvements projects within the Village. They will assist with public meetings in advance of construction, project brochures, social media updates, email list blasts, individual project websites with updated schedules, traffic pattern information, project updates and photos. All public facing information would be kept current and refreshingly informative.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$1,300,000

- Countryside Standpipe Rehabilitation - At Countryside Standpipe we are looking to partner with Suez Water/Advanced Solutions that perform Tank Maintenance & Professional Services. This is a program starts with a complete renovation of the standpipe 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. This company will make sure we are always in compliant with AWWA, EPA, and OSHA. \$500,000 is for baseline renovation, and therefore will flatten the budget annually.
- Ratt Creek Reach 5 (High Hill Dam Area) - \$300,000 is provided to relocate sanitary and water mains from the High Hill Dam detention area that would be impossible for maintenance crews to access should they ever fail. Sanitary sewers will be moved to the perimeter of the site and around the dam, and water main will be relocated from under the board walk and creek to an area within the Harnish Drive ROW. This work will most likely span two fiscal years and two construction seasons due to its technical and constructability issues.
- Terrace Hill - \$500,000 is provided for street improvement projects that have water and sewer related issues that need to be handled as part of the construction of the street. These are being done as part of the street improvement projects so that we can address the water & sewer issues while the road is under construction instead of having to come back and re-excavate new roads to deal with maintenance issues relative to the distribution and collection systems. Terrace Hill has a considerable number of storm and sanitary sewer issues that staff has noted that will be corrected as part of the project.

ACCOUNT 44416 – COLLECTION SYSTEM MAINTENANCE - \$100,000

This is an 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 - \$300,000

- MCC Upgrades WTP 1 & HSP's WTP 2&3 - \$300,000 is allocated for the continuation of work from last FY. The construction involves replacement of an MCC (Motor Control Center) and the addition of other necessary electrical components at WTP no. 1. Work includes electrical drawings to bring the new MCC up to current code, to incorporate VFD's for the facility's high service pumps, and to provide integration with SCADA. Scope for the High Service Pump work includes the replacement of existing electric motors to motors with a heavier duty rating and more applicable to use with Variable Frequency Drives (VFD's). Additionally, VFD's will be added. The upgraded electric motors and addition of the VFD's will enable each facility to better meet system demands, reduce pressure fluctuations, realize electrical savings, and reduce wear-n-tear on equipment.

ACCOUNT 45526 – WASTEWATER COLLECTION - \$4,690,000

- Downtown Streetscape Stage 2 - This work was substantially completed last FY and involved installation of sanitary sewer upgrades to wet utilities between the North Harrison Lift Station (north of the marina) to the Riverfront Lift Station near Port Edward Restaurant. \$150,000 has been provided to final out this project.
- Downtown Streetscape Stage 3 - \$4,540,000 is allocated for the construction services necessary for installation of sanitary sewer upgrades to wet utilities between the Riverfront Lift Station near Port Edward Restaurant and a new deep lift station in Zimmerman Park at LaFox Drive and Center Street. This will be a deep sewer that will eventually eliminate two lift stations and the sanitary sewer bottleneck that exists in the Algonquin Hills Subdivision, and get the Village one step closer to a new trunk sewer all the way to the treatment plant.

ACCOUNT 45565 – WATER MAIN - \$1,160,000

- Downtown Streetscape Stage 2 - This work was substantially completed last FY and involved installation of sanitary sewer upgrades to wet utilities between the North Harrison Lift Station (north of the marina) to the Riverfront Lift Station near Port Edward Restaurant. \$150,000 has been provided to final out this project.
- Downtown Streetscape Stage 3 - \$460,000 is provided for the construction services necessary for installation of sanitary sewer upgrades to wet utilities between the Riverfront Lift Station near Port Edward Restaurant and a new deep lift station in Zimmerman Park at LaFox Drive and Center Street. This will be a deep sewer that will eventually eliminate two lift stations and the sanitary sewer bottleneck that exists in the Algonquin Hills Subdivision, and get the Village one step closer to a new trunk sewer all the way to the treatment plant. This project will also upgrade old water main, where needed, and replace any, and all lead services encountered during the project.
- PRV Replacement Program Year 1 - \$550,000 is provided to replace two PRV stations with upgraded versions similar to the facility installed at Springhill and County Line Road. The plan also eliminates two PRVs on the west side of town that have proven to be superfluous. The work will also eliminate about 1000 feet of 12-inch water main that is no longer critical to the operation of the distribution system and that runs under a wetland where it would be almost impossible to access.

ACCOUNT 45570 – WASTEWATER TREATMENT FACILITY - \$12,500,000

- WWTP Phase 6B Improvements - \$12,500,000 is provided for the construction of several large maintenance projects necessary to upgrade the existing WWTF to more manageable and serviceable conditions. The work includes complete upgrades to the anaerobic digestion system, expansion of the aerobic digestion system, replacement of the gravity belt thickeners, modernization of the Primary Clarifiers, electrical and SCADA upgrades, emergency power generation, and a new roof on the entire main complex.



**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

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## Service Area Description

The Water and Sewer Improvement and Construction Fund provides for maintenance and improvements to the Village water distribution system for delivery of safe drinking water, for the conveyance of sewage for treatment, and for protection of our Village of Algonquin residents and the environment.

The Water and Sewer Improvement and Construction Fund supports the Village of Algonquin's mission by:

- Maintaining the Village's Infrastructure and Upholding a High Quality of Life for Residents.



*Primary Sludge Pumping Improvements brings automation to solids handling at the WWTF.*

## FY 19/20 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 19/20 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.



### Complete

- Downtown Streetscape Stage 2 Utilities
- MCC Upgrades WTP 1 & HSP Replacements WTP 2&3
- Water Meter replacement program
- Sanitary sewer manhole rehabilitation
- Water Tower evaluation study



### Near Completion

- Engineering for Ratt Creek Reach 1 water & sewer improvements



### Not Complete

- Terrace Hill watermain & sanitary sewer improvements

## FY 20/21 Objectives

*Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village's Infrastructure and Uphold a High Quality of Life for Residents*

- Countryside Standpipe Rehabilitation
- Downtown Streetscape Stage 3 Utilities
- Construct PRV Replacement Year 1
- Engineering for PRV Replacement Years 2 & 3
- Risk & Resilience Study
- WWTP Phase 6B Improvements

## Performance Measures

The FY 20/21 budget document features performance measures related to the Village’s Guiding Principles to assist linking budgetary decisions to the intended outcomes determined by the Village Board. Output, efficiency, and outcome measures are used to provide a tangible link from Village services and strategies to the Guiding Principles. Aggressive targets are set during the budget process, not to determine success or failure, but to continuously improve service delivery and provide core services in the most cost-effective manner possible. Additional measures and strategies will be featured in subsequent budgets.

<b>Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village’s Infrastructure and Uphold a High Quality of Life for Residents</b>						
Department Objective	Strategy/Measure	2017	2018	2019		2020
		Actual	Actual	Target	Actual	Target
Provide adequate infrastructure throughout the Village.	TBD		0	0	0	0
	TBD		\$0	\$0	\$0	\$0
	TBD		0%	0%	0%	0%
Notes: TBD						

# Water and Sewer Improvement and Construction Fund

# Revenues

			FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 19/20	FY 20/21
			Actual	Actual	Actual	Budget	Q2	Budget
12000400	33035	Donations - Operating W&S	\$ -	\$ -	\$ 140.00	\$ -	\$ -	\$ -
12000400	33055	Donations - Capital W&S	-	-	145,382.00	-	-	-
12000400	34800	Water Tap-On Fees	271,272.40	330,620.00	451,800.00	265,000.00	234,541.00	290,000.00
12000400	34810	Sewer Tap-On Fees	234,292.20	302,012.00	379,519.00	235,000.00	197,928.00	260,000.00
12000500	36001	Interest	197.15	217.74	386.08	300.00	218.54	200.00
12000500	36020	Interest - Investment Pools	34,783.11	72,778.03	95,871.12	94,700.00	20,599.38	35,800.00
12000500	38007	Transfer from W&S Operating	-	1,318,838.97	1,324,647.00	5,906,700.00	666,179.56	1,320,000.00
<b>Water &amp; Sewer Imp. &amp; Const. Fund Total</b>			<b>\$ 540,544.86</b>	<b>\$ 2,024,466.74</b>	<b>\$ 2,397,745.20</b>	<b>\$ 6,501,700.00</b>	<b>\$ 1,119,466.48</b>	<b>\$ 1,906,000.00</b>

Water and Sewer Improvement and Construction Fund

Expenses

			FY 16/17 Actual	FY 17/18 Actual	FY 18/19 Actual	FY 19/20 Q2	FY 19/20 Budget	FY 20/21 Dept.	FY 20/21 Manager	FY 20/21 Budget
<b>Nondepartmental</b>										
12900400	42230	Legal Services	\$ 2,143.75	\$ 1,662.50	\$ 2,231.25	\$ 1,706.25	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ -
12900400	42232	Engineering Services	19,362.22	100,677.93	22,210.23	115,631.62	1,310,000.00	1,930,000.00	1,930,000.00	-
12900400	43348	Meters & Meter Supplies	-	-	1,901,759.88	1,030,561.00	1,850,000.00	-	-	-
12900400	43370	Infrastructure Maintenance	101,996.25	654,836.93	700.00	45,375.50	1,070,000.00	1,300,000.00	1,300,000.00	-
12900400	44416	Collection System Maintenance	-	-	99,463.38	42,588.00	100,000.00	100,000.00	100,000.00	-
<b>Subtotal</b>			\$ 123,502.22	\$ 757,177.36	\$ 2,026,364.74	\$ 1,235,862.37	\$ 4,340,000.00	\$ 3,340,000.00	\$ 3,340,000.00	\$ -
<b>Capital Expenditures</b>										
12900400	45520	Water Treatment Plant	\$ -	\$ -	\$ 653.34	\$ 310,477.95	\$ 2,200,000.00	\$ 300,000.00	\$ 300,000.00	\$ -
12900400	45526	Wastewater Collection	-	-	-	466,311.87	1,500,000.00	2,650,000.00	4,690,000.00	-
12900400	45565	Water Main	-	1,096.19	-	467,154.33	1,770,000.00	3,200,000.00	1,160,000.00	-
12900400	45570	Wastewater Treatment Facility	34,316.00	-	-	-	-	12,500,000.00	12,500,000.00	-
<b>Subtotal</b>			\$ 34,316.00	\$ 1,096.19	\$ 653.34	\$ 1,243,944.15	\$ 5,470,000.00	\$ 18,650,000.00	\$ 18,650,000.00	\$ -
<b>Other Expenditures</b>										
12900400	-	IEPA Loan Principal Expense	\$ -	\$ -	\$ -	\$ -	\$ 160,000.00	\$ -	\$ -	
12900400	-	IEPA Loan Interest Expense	-	-	-	-	84,000.00	-	-	
<b>Subtotal</b>			\$ -	\$ -	\$ -	\$ -	\$ 244,000.00	\$ -	\$ -	\$ -
<b>Water &amp; Sewer Imp. &amp; Const. Fund Total</b>			\$ 157,818.22	\$ 758,273.55	\$ 2,027,018.08	\$ 2,479,806.52	\$ 10,054,000.00	\$ 21,990,000.00	\$ 21,990,000.00	\$ -
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  
MEMORANDUM**

DATE: January 22, 2020  
TO: Committee of the Whole  
FROM: Tim Schloneger  
Village Manager

***SUBJECT: Proposed Capital Budgets – 2020/2021 - MFT and Street Improvement Funds***

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**OVERVIEW**

Attached are the proposed fiscal year 2020/2021 budgets for the Motor Fuel Tax (MFT) Fund and the Street Improvement Fund. These two funds have separate sources of revenue collection and expenditure requirements. The projects recommended in these two funds continue the village's commitment to maintenance and implementation of the multi-year street improvement program.

The MFT and 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 future issuance of debt. These factors will allow expenditures of road projects to exceed revenues by \$2,011,000. The projected revenue for the two funds total \$9,237,000 (including General Fund Transfers), and the proposed engineering, road construction and maintenance expenditures total \$11,248,000.

**CAPITAL IMPROVEMENT PLAN**

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.

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.

## **CIP UPDATE**

In 2015 the village engaged IMS Infrastructure Management Services (IMS) to perform data collection services through an automated pavement condition survey. The survey included a Road Surface Tester surface condition survey and Dynaflect-based deflection testing on the entire street network.

Following the completion of the data collection by IMS, the village processed the deflection and surface data and imported it into a pavement management application. The village analyzed the data and created reports and exhibits of the pavement network.

The results of the study revealed that the Village is in a state of decline in the overall condition of the roadway system. However, the initial news was good, in that the current rating of the overall system was a seventy-two (72) according to the Pavement Condition Index (PCI) standards. While this was a positive score, it did mean that half of the system was rated at less than seventy-two (72), and was at a point where it will begin failing more quickly unless immediate action is taken.

According to the scenarios examined using the software, in order to maintain a rating of seventy-two (72) over a five (5) year period, an investment of \$87,429,000 in construction costs (excluding

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**MFT and Street Improvement Funds**  
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engineering) was required beginning in 2016. Given the financial commitment, and the sheer effort required to perform the work, staff compiled an aggressive program. The fiscal year 2020/2021 reflects the fifth year of the improvement efforts.

**MFT FUND REVENUES - \$837,000**

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.

**MFT FUND EXPENDITURES - \$1,630,000**

ACCOUNT 42232 - ENGINEERING/DESIGN - \$0

ACCOUNT 43309 - MATERIALS - \$340,000

- \$300,000 - 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.
- \$20,000 - New wave deicers and brines are applied to road salt to increase its effectiveness as an ice melting product in severely cold conditions.
- \$20,000 - We are providing money to purchase asphalt material so our in-house crews can patch failing sections of pavement.

ACCOUNT 43370 - INFRASTRUCTURE MAINTENANCE - \$250,000

- Bike Path Repair - We have been inspecting our trail system every year in order to keep the paths in a safe and useable condition. \$100,000 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.



ACCOUNT 44427 – MAINTENANCE – CURB/SIDEWALK - \$500,000

- \$500,000 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 - \$220,000

- Pavement Marking - \$90,000 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 Highway Department 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.
- \$130,000 allocated for street sweeping provides 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.

ACCOUNT 44429 – MAINTENANCE – STREET LIGHTS - \$120,000

- \$120,000 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 - \$200,000

- \$200,000 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 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 – \$0

- No funds are allocated for capital improvements this fiscal year.

**STREET IMPROVEMENT FUND REVENUES - \$8,400,000**

The estimated revenues for the Street Improvement Fund include the utility tax receipts, telecommunications tax, 100% of the home rule sales taxes, grants, interest estimated for this fiscal year, and a \$3,000,000 inter-fund transfer from the General Fund.

**STREET IMPROVEMENT FUND EXPENDITURES - \$9,618,000**

ACCOUNT 42230 - LEGAL SERVICES - \$10,000 – 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 - \$1,268,000 - The professional services anticipated in this item include construction oversight and inspection services for projects to be built during the next 3 years:

- Algonquin Lakes - \$10,000 is provided in this line item to pay for Phase 2 engineering on this project that was selected by IMS as a high value project that will maintain a fairly good pavement and raise it to a higher level-of-service and improved PCI (pavement condition index). The work in the Algonquin Lakes Subdivision will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Compton Drive, from Sandbloom Road to the end of the subdivision, as well as all other subdivision local roads west of Lake Gillian Way.
- Boyer and County Line Roads - These two projects were also selected by the IMS program, but were somewhat more involved with reference to subbase failures and other issues which created a higher level of design effort in order to put together a detailed set of

engineering documents. Both projects have significant issues related to geometric, drainage and pedestrian access that meet State ADA regulations. \$15,000 has been provided to update the latest engineering plans in order to submit them to IDOT for possible future federal funding money through the Surface Transportation Program.

- Broadsmore & Stonegate Roads - \$60,000 is provided in this line item to pay for Phase 1 engineering on this project that was selected by IMS as a high value project that will maintain a fairly good pavement and raise it to a higher level-of-service and improved PCI (pavement condition index). The work in the Willoughby Farms Estates Subdivision will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Broadsmore Drive, from Randall to Stonegate, and Stonegate Road, from Longmeadow Parkway to Grandview Drive. Some of the phase 1 engineering was completed last FY and this amount is a roll over to final up that phase.
- Crystal Creek Bridge Replacement - The Main Street Bridge over Crystal Creek is being replaced in conjunction with the Downtown Streetscape Stage 1A project. \$30,000 is provided here to final out the project and wait for IDOT to bill us for our portion of the cost.
- Crystal Creek Improvements - The purpose of this project was to fix and complete improvements to the creek that IDOT was supposed to do as part of the Western Bypass. The Village received money from IDOT to have these completed. The majority of this project was constructed last FY. \$5,000 is budgeted to final out the project.
- Grand Reserve Drainage - \$10,000 is provided here to take corrective action to mitigate private property flooding in Grand Reserve related to the creek in the backyards of four homes on the east side of Harnish Drive. The majority of this project was constructed last FY. Money is budgeted to final out the project.
- High Hill Subdivision - \$125,000 is provided in this line item to finish Phase 1 engineering on this project that was started last FY. The work in the High Hill Subdivision will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Winchester, Sussex, Jester, Kirkland, Majestic, Chatham, Bristol and Regal Drive.
- Joint Salt Dome with McHenry County DOT - \$50,000 for engineering services is included here, to be paid jointly by MCDOT, to perform site improvements that will accommodate a joint operations facility for seasonal road maintenance shared by McHenry County and

the Village of Algonquin. Site improvements potentially will include grading, storm water management, lighting, pavement and circulation spaces, liquid de-icer batching and storage facilities, a large salt storage facility and material storage and decant facilities.

- Lake Braewood Drainage Repair - The design of the overflow structure and the dam on the downstream side of the lake do not allow for safe and easily accessible access to control the level of the lake during flooding emergencies. In 2013 we performed a comprehensive drainage study of the area that feeds this lake to determine our best options for this project and last fiscal year we came up with a concept plan that would best solve the array of improvements that are needed in this area. \$250,000 is provided to begin engineering to correct the drainage issues that reside in the low portion of this subdivision.
- Randall Road Wetland Complex Stage 1 - \$40,000 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.
- Randall Road Wetland Complex Stage 2 - \$40,000 is allocated for this project which includes the second stage of improving the existing wetland complex between Randall Road & Stonegate Road. This part of the project will reshape the wetlands on the west part of the site for purposes of added detention. The main focus of Stage 2 is to eradicate invasive species and to add wetland species to enhance and upgrade floristic quality, as well as improve groundwater infiltration and water quality benefits due to storm water runoff.
- Ratt Creek Reach 5 - Now that the Harper Drive bike path connection has been constructed, we would like 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. Phase 2 engineering was started last FY, however, this is a complex project that will require further engineering before we can submit for DNR and ACOE permits to construct the project. Therefore, \$20,000 has been allocated this fiscal year.

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- Route 62 Bridge Deck Overlay - \$15,000 is provided here for engineering services related to the aesthetic improvements to the Route 62 Bridge that were agreed to by the Village Board in an IGA with IDOT dated December 3, 2019. Resident Engineer services will be provided by IDOT as part of the project, so this number is provided as a contingency in case the Village Engineer needs to intercede.
- Makers' Park Bike Path - The Village received a grant to construct a bike path connecting the McHenry County Conservation District regional bike path to the Makers' Industrial Park. \$15,000 is provided here will complete the design, construction documents and bidding services, as well as \$45,000 to fund Phase 3 oversight services during the construction phase of the project.
- Scott, Souwanas & Schuett - \$20,000 is provided to complete phase 2 engineering for this project which involves narrowing thee existing roadway, replacement of all curb & gutter, partial replacement of sanitary sewer (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. We will be submitting this project for Federal Surface Transportation Funding and we are highly likely to be put on the project list to receive \$1.5M in federal funding. This phase of the engineering will get the plans set in IDOT format and ready for their review and approval.
- Sleepy Hollow Road -\$20,000 is budgeted to final out this project and take care of any punch list items.
- Stonegate Road - \$60,000 is provided in this line item to pay for Phase 1 engineering on this project that was selected by IMS as a high value project that will maintain a fairly good pavement and raise it to a higher level-of-service and improved PCI (pavement condition index). The work in the Willoughby Farms Subdivision will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Stonegate Road from the terminus near Willoughby Farms Park to County Line Road, not including the intersection, which is included in the County Line/Boyer Road project.
- Terrace Hill - \$280,000 is allocated for this project which will involve the rehabilitation of all the severely failed local roads in the Terrace Hill subdivision. The scope of the project will encompass removal and repair of all asphalt, assessment of the existing subbase, patching of failed curb sections throughout, replacement of all mountable curb in front of each driveway, patching of driveway approaches within the ROW, repair of any failed

storm sewer structures, and restoration of any landscaping disturbed by construction. This project was started last fiscal year and the work will carry over through this year.

- 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 the Project Manager.
- PR Firm - Public Works will again hire a public relations firm to address the ever increasing outcry for more, and better, communication about infrastructure improvements projects within the Village. \$50,000 is allocated for assistance with public meetings in advance of construction, project brochures, social media updates, email list blasts, individual project websites with updated schedules, traffic pattern information, project updates and photos. All public facing information would be kept current and refreshingly informative.
- Crystal Creek Watershed Plan - The Village of Crystal Lake is currently completing an approved IEPA Watershed Plan for the Crystal Creek Watershed. The south portion of this watershed is in the Village of Algonquin. \$8,000 is being provided to include Algonquin's portion in the watershed plan and to call out our projects in this area. Doing this will make them eligible for future IEPA water quality grant funding, which cannot be obtained unless the projects are called out in an approved Watershed Plan.

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ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE- \$520,000 – The anticipated projects include the following:

- Brick Paver Maintenance - \$200,000 is provided in this line item to repair failed brick pavers on Bunker Hill and Square Barn Road in the Manchester Lakes and Terrace Lakes subdivisions.
- Crystal Creek Improvements - \$20,000 has been provided for the first year of the three year maintenance period to establish the native vegetation that was installed as part of this project.
- Grand Reserve Drainage - \$40,000 is provided to take corrective action to mitigate private property flooding in Grand Reserve related to the creek in the backyards of four homes on the east side of Harnish Drive. The majority of this project was constructed last FY. \$20,000 is budgeted to final out the project and to start the three year maintenance period to establish the native vegetation that was installed as part of the project.
- Highland Avenue Detention Maintenance - \$20,000 is provided in this line item to perform maintenance on the newly installed natural detentions contiguous to the new roadway on Highland Avenue. This detentions were installed as part of the roadway reconstruction performed this past construction season, and will require minimum five year maintenance to be successful. This will be year 3 of 5.
- Pavement Analysis - We have provided \$80,000 to accomplish a Pavement Analysis program on the Village's roadway network. We used IMS to perform this work five years ago, and the data needs to be made current. We will be looking at a number of alternatives to IMS, including using Cityworks to perform the inventory and analysis. In order to acquire funding through the STP Program via CMAP and the McHenry County Council of Mayors, it is mandatory that we have a Pavement Analysis and Maintenance Program in place and actively maintained.
- Reclamite Treatment - \$70,000 is allocated for the product we apply at all our road within a year after they are constructed. It is an asphalt rejuvenator that helps to extend the life of asphalt pavement.
- Route 62 Bridge Deck Overlay - \$80,000 is provided for construction services related to the aesthetic improvements to the Route 62 Bridge that were agreed to by the Village Board in an IGA with IDOT dated December 3, 2019. Aesthetic Improvements include

new railings on Jersey walls and parapet walls, patina stain on concrete, and painting of street lights and banner posts on bridge.

- Souwanas Creek Emergency Repair - \$15,000 is allocated for year 2 of the natural area maintenance of this repair in order to properly establish the plantings.
- Souwanas Creek Reach 2 - This stream and Oak savannah restoration was completed last FY. \$20,000 is budgeted here for year 1 of the 3 year maintenance period.
- Storm Sewer Lining - \$25,000 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.
- Surrey Lane Creek & Drainage Repair - \$25,000 has been provided for the third year of maintenance on the native plantings of the stream bank stabilization project.
- Woods Creek Bunker Hill Drive - \$10,000 is provided for the 3 year maintenance period for the small restoration project that we completed in the Woods Creek Riparian Corridor along the northwest side of Bunker Hill Drive. Part of establishing the prairie and wetland requires mowing, selective herbiciding and a controlled burn. This is the final year of the maintenance period.
- Woods Creek Reach 2 - \$20,000 is budgeted for follow up maintenance of the restoration of the headwaters of Woods Creek. This area is also listed as critical for restoration in the Woods Creek Watershed Plan. We received funding from the IEPA through the Section 319 Water Quality grant to construct this project and a 10-year maintenance period is required as part of the grant.
- Wayfinding Signage - \$75,000 is allocated for approximately 17 wayfinding signs to be installed in various locations around the community directing visitors to Old Town Algonquin.



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ACCOUNT 45590 – CAPITAL PURCHASE - \$0 – No expenditures are proposed.

ACCOUNT 45593 – CAPITAL IMPROVEMENTS - \$7,820,000 – the anticipated projects include the following:

- Crystal Creek Bridge Replacement - The Main Street Bridge over Crystal Creek is being replaced in conjunction with the Downtown streetscape Stage 1A project. \$20,000 is provided here to final out the project and wait for IDOT to bill us for our portion of the cost.
- Crystal Creek Improvements - The purpose of this project was to fix and complete improvements to the creek that IDOT was supposed to do as part of the Western Bypass. The Village received money from IDOT to have these completed. The majority of this project was constructed last FY. \$500,000 is budgeted to final out the project.
- Downtown Streetscape MCCD Trailhead - \$2,000,000 is provided in this line item to fund a design build project to enhance the existing McHenry County Conservation District Trailhead at the northeast corner of Route 31 and S. Main Street. This project will replace the existing trailhead with a design more in keeping with our Downtown Streetscape theme including an arched arbor, curved knee-wall seating, planter beds, brick paver walkways and gathering areas, bike racks, bike maintenance station, picnic tables, drinking fountain with dog tray, bike path tie-ins to reconstructed path, and information kiosk. This project will be built in conjunction with the replacement of the train bridge on LaFox River Drive to limit inconvenience for the users of the bike trail.
- Downtown Streetscape Stage 1B - \$50,000 is being provided here as a contingent amount just in case there are any late change orders on the Stage 1B section of the Downtown Streetscape, from the Crystal Creek Bridge to Algonquin Road.
- Highland Avenue - \$100,000 is the amount we are still waiting to be billed from IDOT.
- Randall Road Wetland Complex Stage 1 - The project 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. \$350,000 is budgeted, and stage 2 will be contingent upon receiving grant funding.

- Makers' Park Bike Path - The Village received a grant to construct a bike path connecting the McHenry County Conservation District regional bike path to the Makers' Industrial Park. \$300,000 is provided to pay to construct the bike path, including earth excavation, path construction, tree removal and replacement and landscape restoration.
- Sleepy Hollow Road - \$300,000 is budgeted to final out this project and take care of any punch list items.
- Terrace Hill - \$4,000,000 is allocated for this project which will involve the rehabilitation of all the severely failed local roads in the Terrace Hill subdivision. The scope of the project will encompass removal and repair of all asphalt, assessment of the existing subbase, patching of failed curb sections throughout, replacement of all mountable curb in front of each driveway, patching of driveway approaches within the ROW, repair of any failed storm sewer structures, and restoration of any landscaping disturbed by construction. This project was started last fiscal year and the work will carry over through this year.

## **SUMMARY OF CAPITAL MFT AND STREET IMPROVEMENT BUDGETS**

By implementation of the Streets Capital Budget, the village can continue to accomplish major road and drainage 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 and keep the village on track with the Capital Improvement Plan.

Attachments

# Motor Fuel Tax Fund

## Service Area Description

The Motor Fuel Tax (MFT) Fund is used for maintenance and improvements of Village streets for residents and the motoring public in order to provide safe and efficient travel through and within the Village of Algonquin.



*The MFT Fund assigns resources for repairing and resurfacing Village streets for improved travel*

The Motor Fuel Tax Fund supports the Village of Algonquin's mission by:

- Maintaining the Village's Infrastructure and Upholding a High Quality of Life for Residents.

## FY 19/20 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 19/20 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.



### **Complete**

- Procure asphalt materials and road salt for maintenance of Village streets through competitive bidding.
- Bike path repairs (removal and replacement of asphalt)
- Concrete (sidewalk, driveway, and curb) removal and replacement
- Pavement marking as needed on certain roadways in the Village
- Maintenance of Village owned street lighting system and needed repairs
- Flush certain storm water structures as part or regular maintenance plan



### **Near Completion**

- N/A



### **Not Complete**

- N/A

## FY 20/21 Objectives

*Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village's Infrastructure and Uphold a High Quality of Life for Residents*

- Procure asphalt materials and road salt for maintenance of Village streets through competitive bidding.
- Bike path repairs (removal and replacement of asphalt)
- Concrete (sidewalk, driveway, and curb) removal and replacement
- Pavement marking as needed on certain roadways in the Village
- Maintenance of Village owned street lighting system and needed repairs
- Flush certain storm water structures as part or regular maintenance plan
- Asphalt pavement patching

## Performance Measures

The FY 20/21 budget document features performance measures related to the Village’s Guiding Principles to assist linking budgetary decisions to the intended outcomes determined by the Village Board. Output, efficiency, and outcome measures are used to provide a tangible link from Village services and strategies to the Guiding Principles. Aggressive targets are set during the budget process, not to determine success or failure, but to continuously improve service delivery and provide core services in the most cost-effective manner possible. Additional measures and strategies will be featured in subsequent budgets.

<b>Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village’s Infrastructure and Uphold a High Quality of Life for Residents</b>						
Department Objective	Strategy/Measure	2017	2018	2019		2020
		Actual	Actual	Target	Actual	Target
Provide adequate infrastructure throughout the Village.	TBD	0	0	0	0	0
	TBD	0	\$0	\$0	\$0	0
	TBD	0	0%	0%	0%	0
Notes: - TBD						

Motor Fuel Tax Fund

Revenues

			FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 19/20	FY 20/21
			Actual	Actual	Actual	Budget	Q2	Budget
03000300	33015	MFT Allotments	\$ 761,560.71	\$ 767,164.92	\$ 762,705.97	\$ 758,000.00	\$ 460,908.74	\$ 761,000.00
03000300	33017	High Growth Allotment	37,932.00	37,287.00	36,827.00	36,000.00	-	36,000.00
03000300	33052	Donations - Capital	50,339.97	-	-	-	-	-
03000500	36020	Interest - Investment Pools	10,765.36	28,112.36	56,019.05	51,000.00	24,290.72	40,000.00
<b>Motor Fuel Tax Fund Total</b>			<b>\$ 860,598.04</b>	<b>\$ 832,564.28</b>	<b>\$ 855,552.02</b>	<b>\$ 845,000.00</b>	<b>\$ 485,199.46</b>	<b>\$ 837,000.00</b>

Motor Fuel Tax Fund

Expenditures

			FY 16/17 Actual	FY 17/18 Actual	FY 18/19 Actual	FY 19/20 Q2	FY 19/20 Budget	FY 20/21 Dept.	FY 20/21 Manager	FY 20/21 Budget
03900300	42232	Engineering/Design Services	\$ 189,368.80	\$ 1,878.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
03900300	43309	Materials	288,803.23	322,555.62	375,727.88	111,760.80	450,000.00	340,000.00	340,000.00	-
03900300	43370	Infrastructure Maintenance	787,635.98	(170,820.19)	113,501.70	145,633.90	120,000.00	250,000.00	250,000.00	-
03900300	44427	Maintenance - Curb/Sidewalk	-	-	494,778.95	423,647.85	240,000.00	500,000.00	500,000.00	-
03900300	44428	Maintenance - Streets	-	-	129,707.19	117,283.70	140,000.00	220,000.00	220,000.00	-
03900300	44429	Maintenance - Street Lights	-	-	48,661.09	23,777.09	185,000.00	120,000.00	120,000.00	-
03900300	44431	Maintenance - Storm Sewer	-	-	48,304.76	180,800.00	80,000.00	200,000.00	200,000.00	-
03900300	45593	Capital Improvements	133,984.80	-	13,148.19	-	70,000.00	-	-	-
<b>Motor Fuel Tax Fund Total</b>			<b>\$ 1,399,792.81</b>	<b>\$ 153,613.69</b>	<b>\$ 1,223,829.76</b>	<b>\$ 1,002,903.34</b>	<b>\$ 1,285,000.00</b>	<b>\$ 1,630,000.00</b>	<b>\$ 1,630,000.00</b>	<b>\$ -</b>

## Street Improvement Fund

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### Service Area Description

The Street Improvement Fund provides for maintenance and improvements to Village streets and drainage areas for residents and the motoring public in order to provide safe and efficient travel through and within the Village of Algonquin. This fund also ensures safe and environmentally conscious projects for storm water and drainage.

The Street Improvement Fund supports the Village of Algonquin's mission by:

- Maintaining the Village's Infrastructure and Upholding a High Quality of Life for Residents.
- Promoting Programs with a Conservation Focus.



*Resurfacing work performed on a residential street in Algonquin*

### FY 19/20 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 19/20 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.

#### Complete

- Phase 1 engineering for Algonquin Lakes Subdivision
- Crystal Creek restoration
- Downtown Streetscape Stage 1A
- Main Street bridge over Crystal Creek
- Engineering for MCCD Trailhead & LaFox River Drive bridge improvements
- Downtown stage 2 utility lowering
- Grand Reserve Drainage Improvements
- Harper Drive Culvert Repair
- Engineering for Harnish Drive Improvements
- Highland Avenue naturalized detention maintenance
- Concept plan for Lake Braewood Drainage
- Randall Road Pedestrian Underpass
- Construction of Souwanas Creek Reach 2 stream restoration
- Storm sewer repairs
- Terrace Hill golf course drainage report
- Year 3 of 10 for maintenance of Woods Creek Reach 2 stream restoration

#### Near Completion

- Engineering for Downtown Riverwalk & South Harrison Street bridge
- Engineering for Main Street & South Harrison Street bike path
- Engineering for South Harrison Street Streetscape

- Engineering for Armstrong Street bike path connection

**Not Complete**

- Phase 1 engineering for Broadsmore & Stonegate Roads
- Phase 1 engineering for High Hill Subdivision road improvements
- Randall Road wetland complex Stage 1
- Phase 1 engineering for Stonegate Road improvements
- Terrace Hill subdivision street improvements

**FY 20/21 Objectives**

*Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village's Infrastructure and Uphold a High Quality of Life for Residents*

- Phase 2 engineering for Algonquin Lakes Subdivision
- Phase 1 engineering for Broadsmore & Stonegate Roads
- Brick Paver maintenance in Manchester Lakes
- Pavement analysis and ratings
- Engineering for Ratt Creek Reach 5
- Route 62 bridge deck overlay
- Construction of Armstrong Street bike path connection
- Phase 1 engineering for Stonegate Road improvements
- 

*Guiding Principle #6: Continue to Promote and Develop Programs with a Conservation Focus*

- Year 3 of 5 of Highland Avenue naturalized detention maintenance
- Phase 1 engineering for Lake Braewood drainage
- Engineering for Ratt Creek Reach 5 streambank restoration
- Restoration of Randall Road wetland complex Stage 1
- Engineering for Randall Road wetland complex Stage 2



## Performance Measures

The FY 20/21 budget document features performance measures related to the Village’s Guiding Principles to assist linking budgetary decisions to the intended outcomes determined by the Village Board. Output, efficiency, and outcome measures are used to provide a tangible link from Village services and strategies to the Guiding Principles. Aggressive targets are set during the budget process, not to determine success or failure, but to continuously improve service delivery and provide core services in the most cost-effective manner possible. Additional measures and strategies will be featured in subsequent budgets.

### Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to Maintain the Village’s Infrastructure and Uphold a High Quality of Life for Residents

Department Objective	Strategy/Measure	2017	2018	2019		2020
		Actual	Actual	Target	Actual	Target
Provide adequate infrastructure throughout the Village.	Miles of streets improved <sup>1</sup>	6	0.8	3.0	1.5	2
	Construction costs of street improvement fund projects <sup>1</sup>	\$8,000,000	\$1,500,000	\$12,000,000	\$8,000,000	\$4,000,000
	Percentage of overall street system improved <sup>1</sup>	3%	0.5%	4%	1%	1%

**Notes:**

<sup>1</sup> – Strategies and measures are only applicable to the Street Improvement Fund portion of the project. Other funds and revenue sources also contribute to the construction and maintenance of the Village’s street system

# Street Improvement Fund

# Revenues

			FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 19/20	FY 20/21
			Actual	Actual	Actual	Budget	Q2	Budget
04000500	31011	Home Rule Sales Tax	\$ 4,227,204.96	\$ 4,187,426.26	\$ 4,147,954.22	\$ 4,240,000.00	\$ 1,966,302.38	\$ 4,050,000.00
04000500	31190	Telecommunications Tax	318,838.18	286,035.63	268,779.44	265,000.00	124,291.86	205,000.00
04000500	31495	Utility Tax Receipts	923,668.17	919,159.83	963,975.34	925,000.00	438,642.65	920,000.00
04000500	33012	Intergovernmental Agreement	18,103.35	-	-	-	-	-
04000300	33032	Donations - Operating - PW	-	2,673.13	-	-	5,726.94	-
04000300	33052	Donations - Capital - PW	2,327.47	-	-	-	-	-
04000300	33252	Grants - Capital - PW	302,294.10	49,796.10	22,068.00	-	-	150,000.00
04000500	36001	Interest	476.30	572.98	592.63	500.00	295.47	400.00
04000500	36020	Interest -Investment Pools	41,413.84	85,114.32	139,787.89	144,500.00	53,810.47	74,600.00
04000500	38001	Transfer - General Fund	1,000,000.00	-	600,000.00	3,600,000.00	2,000,000.00	3,000,000.00
04000500	38016	Transfer - Special Reveune Fund	299,800.58	-	-	-	-	-
04000500	38060	Transfer - Special Service Area	-	-	201,954.86	-	-	-
<b>Street Improvement Fund Total</b>			<b>\$ 7,134,126.95</b>	<b>\$ 5,530,778.25</b>	<b>\$ 6,345,112.38</b>	<b>\$ 9,175,000.00</b>	<b>\$ 4,589,069.77</b>	<b>\$ 8,400,000.00</b>
<p>On March 7, 2006, the Village Board approved two ordinances. The first eliminated the utility tax on natural gas and delivery charges for Village residents and businesses. The 4% utility tax related to natural gas no longer applied as of July 1, 2006. A use tax fee of \$0.0103 was implemented as a charge per therm. The second ordinance established a home rule retailers' occupation tax and service occupation tax of three-quarters percent (0.75%). This tax applies to retail and service sales and was effective on July 1, 2006. It does not apply to sales of food for human consumption off the premises where it is sold (i.e., groceries), prescription and non-prescription medicines, or other medical supplies. In addition, it does not apply to sales of tangible personal property that is titled or registered with an agency of this state's government (e.g., cars, trucks, motorcycles, etc.). No change in home rule sales tax allocations is proposed for FY 19/20 with 100% allocations designated to the Street Improvement Fund.</p> <p>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.</p>								

# Street Improvement Fund

# Expenditures

			FY 16/17 Actual	FY 17/18 Actual	FY 18/19 Actual	FY 19/20 Q2	FY 19/20 Budget	FY 20/21 Dept.	FY 20/21 Manager	FY 20/21 Budget
04900300	42230	Legal Services	\$ 12,251.75	\$ 22,494.53	\$ 6,428.50	\$ 4,863.75	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ -
04900300	42232	Engineering/Design Services	1,368,982.80	647,981.93	586,137.79	510,609.64	2,095,000.00	1,300,000.00	1,268,000.00	-
04900300	43370	Infrastructure Maintenance	3,147,975.38	1,693,520.65	1,470,844.21	50,436.94	1,040,000.00	445,000.00	520,000.00	-
04900300	45593	Capital Improvements	2,475,645.51	391,642.15	173,761.47	2,272,370.63	12,110,000.00	8,820,000.00	7,820,000.00	-
04900300	45595	Land Acquisition	94,628.00	622,283.47	8,162.50	4,326.50	-	-	-	-
<b>Street Improvement Fund Total</b>			<b>\$ 7,099,483.44</b>	<b>\$ 3,377,922.73</b>	<b>\$ 2,245,334.47</b>	<b>\$ 2,842,607.46</b>	<b>\$ 15,255,000.00</b>	<b>\$ 10,575,000.00</b>	<b>\$ 9,618,000.00</b>	<b>\$ -</b>



**VILLAGE OF ALGONQUIN  
MEMORANDUM**

**DATE:** *January 22, 2020*

**TO:** *Committee of the Whole*

**FROM:** *Tim Schloneger  
Village Manager*

**SUBJECT:** ***Proposed Capital Budget – 2020/2021 – Park Improvement Fund***

**OVERVIEW**

The Park Improvement Fund is utilized for the acquisition of parklands, development of and improvements to parks, and wetlands/native area enhancements. 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. The development fees were restricted to specific uses such as reforestation, enhancement of wetlands, and improvements to other natural areas.

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 two 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, a portion (2.25% tax rate) of the revenue from the village's telecommunications tax is also being dedicated to the fund.

## **Proposed Budget – 2020/2021**

### **Park Fund**

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#### **PARK FUND REVENUES - \$751,000**

Revenues include \$11,000 in interest income, \$115,000 in video gaming terminal tax receipts, \$170,000 from the dedicated portion of the telecommunications tax, \$55,000 in reforestation and watershed donations, and \$400,000 from an Open Space Land Acquisition and Development (OSLAD) grant.

#### **PARK FUND EXPENDITURES - \$1,547,000**

##### **ACCOUNT 42232 – ENGINEERING AND DESIGN - \$248,000**

- Gaslight Tennis Court Rehab - \$20,000 has been provided to engineering the substantial reconstruction of the Gaslight Park tennis courts. Due to the age and condition of these facilities, they need to be completely removed and replaced. We have also provided \$25,000 for construction oversight once we award the project. This project is on hold until the outcome of the Comprehensive Parks and Recreation Master Plan process, expected in fall 2020.
- Creeks Crossing Drainage Improvement - \$3,000 has been provided for inspection of the maintenance period for the natural area restoration. The Village ecologist will make sure that the contractor is sufficiently targeting and managing the site for the proper establishment of the native areas.
- Kelliher Park Parking Lot - This project was substantially completed last FY. However, the Algonquin Lakes Tennis Court Rehab was rolled into this project. Therefore, \$10,000 has been carried over to cover construction management on the court project as well as to cover any punch list inspections.
- Comprehensive Parks and Recreation Master Plan - The development of this plan was started last FY with our hired consultant. This plan will guide physical park development as well as recreational programming. \$60,000 has been provided to complete this plan.
- Stoneybrook Park Improvements - Costs are reflected here to provide improvements for a park rehabilitation project. Engineering was started last FY and \$10,000 has been provided to wrap up the phase 2 design. This is one of the only facilities that has not been improved in the last 20 years, and is long overdue. The project will provide a better neighborhood park with enhanced, and more variety of, attributes. \$70,000 has been provided for construction management as

## **Proposed Budget – 2020/2021**

### **Park Fund**

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**January 22, 2020**

the Village has received an OSLAD grant from the Illinois Department of Natural Resources.

- Woods Creek Reach 4 - \$15,000 is provided for construction oversight to improve this next section of the Woods Creek corridor. This section runs front the Spella Park bridge to Woods Creek Lane and is directly downstream from the restoration project completed last FY through the IEPA 319 grant. The Village received a grant from DCEO to put towards this improvement.
- Woods Creek Reach 5 - \$35,000 is provided for to begin the engineering design for the next reach of Woods Creek. This restoration project will be similar to those completed upstream and will include bank stabilization, re-establishing the native vegetation, and inclusion of cross vanes and rock riffles to improve habitat.

#### **ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$135,000**

- Algonquin Lakes Basketball Court Rehab - \$50,000 is allocated for rebuilding of this court including asphalt, court acrylic paint, and resetting some benches. This project was rolled into the Kelliher Park Parking Lot project as that contractor was doing similar work. This court was not able to be done last fiscal year due to the winter weather change so we have rolled over money to get this completed.
- Creeks Crossing Drainage Improvement - The restoration of this natural area was completed last FY. This now has a 3 year maintenance period in the amount of \$20,000 annually for the establishment of the native plantings.
- 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. \$50,000 is allocated for these activities.

**Proposed Budget – 2020/2021**

**Park Fund**

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**January 22, 2020**

- Spella Pollinator Project - 2 years ago, Village received a grant through the ComEd Green Regions Program to convert the mowed sled hill into a pollinator habitat. \$15,000 is allocated for year 2 of the maintenance period in order to get this new native area established.

**ACCOUNT 44402 – REFORESTATION - \$54,000**

- 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 - \$90,000:**

- Holder Park Detention Naturalization - This is the final turf grass detention basin on the east side of town that is owned by the Village and has not been naturalized. \$55,000 has been provided for a design build project to eradicate the turf grass and weeds and to plant the basin with native wetland and prairie plants that will provide groundwater infiltration as well as cleansing of storm water runoff.
- Spella Fen Buffer - A restoration project was completed that involved brushing out all of the invasive tree species from the headwater area of Spella Wetland and seeded the area. This section contains some rare fens and seeps which is why we wanted to restore this critical area. \$15,000 has been provided for maintenance of the area to include spot herbiciding, mowing & burning. This will be the third and final year of the required maintenance period by the contractor.
- Targeted Phragmite Control - \$20,000 has been provided to eliminate perennial, aggressive wetland grass that outcompetes native plants and displaces native animals.

**Proposed Budget – 2020/2021**

**Park Fund**

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**January 22, 2020**

ACCOUNT 45593 – PARK DEVELOPMENT - \$1,020,000

- Kelliher Park Parking Lot - This project was substantially completed last FY. \$30,000 has been rolled over to pay out some small remaining items as well as to pay the retainage that was held on the project. This amount does not include the Algonquin Lakes Basketball Court Rehab that was rolled into this project. Costs for that are reflected in line item 43370.
- Stoneybrook Park Improvements - \$700,000 is reflected here to provide improvements for a park rehabilitation project. This is one of the only facilities that has not been improved in the last 20 years, and is long overdue. The project will provide a better neighborhood park with enhanced, and more variety of, attributes. The Village has received an OSLAD grant (\$400,000) that will help pay for this project.
- Woods Creek Reach 4 - Money is provided for construction to improve this next section of the Woods Creek corridor. This section runs front the Spella Park bridge to Woods Creek Lane and is directly downstream from the restoration project completed last FY through the IEPA 319 grant. The project was started last year and money has been provided to complete the restoration.
- Gaslight Tennis Court Rehab - \$250,000 has been provided for the substantial reconstruction of the Gaslight Park tennis courts. Due to the age and condition of these facilities, they need to be completely removed and replaced. This project is on hold until the outcome of the Comprehensive Parks and Recreation Master Plan process, expected in fall 2020.

Attachment



# Park Improvement Fund

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## Service Area Description

The Park Fund provides funds for large-scale new development of park sites as well as major wetland restoration and stream corridor maintenance projects. Large-scale development and restoration provide both passive and active recreational activities for all Village residents.

The Park Fund supports the Village of Algonquin's mission by:

- Maintaining the Village's Infrastructure and Upholding a High Quality of Life for Residents.
- Promoting Programs with a Conservation Focus.



*Towne Park reopened to the public with various site improvements in May 2015*

## FY 19/20 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 19/20 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.



### Complete

- Kelliher Park parking lot expansion
- Woods Creek Reach 4 restoration
- Creek Crossing Park & Preserve
- Natural Area Maintenance



### Near Completion

- Parks and Recreation Master Plan
- Algonquin Lakes B-ball Court Rehab
- Targeted Phragmite control



### Not Complete

- Willoughby Farms Park Improvements engineering
- Stoneybrook Park Improvements

## FY 20/21 Objectives

*Guiding Principle #3: Evaluate, Plan for, and Implement Important Capital Improvement Projects in Order to add to the Village's Infrastructure and Uphold a High Quality of Life for Residents*

- Gaslight Park Tennis Court Rehab
- Stoneybrook Park Improvements

***Guiding Principle #6: Continue to Promote and Develop Programs with a Conservation Focus***

- Woods Creek Reach 5
- Natural Area Maintenance
- Reforestation program
- Holder Park detention naturalization

**Performance Measures**

The FY 20/21 budget document features performance measures related to the Village’s Guiding Principles to assist linking budgetary decisions to the intended outcomes determined by the Village Board. Output, efficiency, and outcome measures are used to provide a tangible link from Village services and strategies to the Guiding Principles. Aggressive targets are set during the budget process, not to determine success or failure, but to continuously improve service delivery and provide core services in the most cost-effective manner possible. Additional measures and strategies will be featured in subsequent budgets.

<b>Guiding Principle #6: Continue to Promote and Develop Programs with a Conservation Focus</b>						
Department Objective	Strategy/Measure	2017	2018	2019		2020
		Actual	Actual	Target	Actual	Target
Preserve and enhance Village’s tree resources.	Total Number of Trees Planted	200	500	300	611	600
	Total Cost per Tree <sup>1</sup>	\$140	\$140	\$140	\$140	\$140
	Number of Tree Sites Remaining on Wait List	1,625	1,100	800	914	600

1 – Tree only, not installation.

# Park Improvement Fund

# Revenues

			FY 16/17 Actual	FY 17/18 Actual	FY 18/19 Actual	FY 19/20 Budget	FY 19/20 Q2	FY 20/21 Budget
06000500	31175	Video Gaming Terminal Tax	\$ 115,786.73	\$ 110,846.12	\$ 116,645.39	\$ 105,000.00	\$ 69,752.85	\$ 115,000.00
06000500	31190	Telecommunications Tax	269,241.12	241,541.19	226,969.30	220,000.00	104,957.58	170,000.00
06000300	33052	Donation - Capital - PW	12,212.58	27,390.00	334,608.00	-	138,313.00	-
06000300	33150	Donation - Ecosystem Maint.	-	-	-	-	-	-
06000300	33152	Donation - Reforestation	3,500.00	33,025.00	21,350.00	15,000.00	1,200.00	50,000.00
06000300	33153	Donation - Watershed	7,849.20	5,159.36	66,723.50	5,000.00	3,535.00	5,000.00
06000300	33155	Donation - Wetland Mitigation	-	100.00	-	-	2,600.00	-
06000300	33232	Grants - Operating - PW	-	10,000.00	-	-	10,000.00	-
06000300	33252	Grants - Capital - PW	-	-	-	-	-	400,000.00
06000500	36001	Interest	122.35	149.70	265.42	100.00	149.89	100.00
06000500	36020	Interest - Investment Pools	2,247.92	5,957.50	19,964.52	14,900.00	9,411.43	10,900.00
06000500	38001	Transfer - General Fund	-	-	400,000.00	-		-
<b>Park Improvement Fund Total</b>			<b>\$ 410,959.90</b>	<b>\$ 434,168.87</b>	<b>\$ 1,186,526.13</b>	<b>\$ 360,000.00</b>	<b>\$ 339,919.75</b>	<b>\$ 751,000.00</b>

