

AGENDA  
COMMITTEE OF THE WHOLE  
January 22, 2019  
2200 Harnish Drive  
Village Board Room  
- AGENDA -  
7:30 P.M.

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

1. **Roll Call – Establish Quorum**
2. **Administer Oath of Office to Officer Rodney A. Brown**
3. **Public Comment – Audience Participation** (*Persons wishing to address the Committee on an item on this agenda must register with the Chair prior to roll call.*)
4. **Community Development**
5. **General Administration**
  - A. Presentation for Capital Budget for 2019/2020
    1. Proposed Water and Sewer Improvement and Construction Budget
    2. Proposed MFT and Street Improvement Budgets
    3. Proposed Park Improvement Budget
6. **Public Works & Safety**
7. **Executive Session**
8. **Other Business**
9. **Adjournment**



VILLAGE OF ALGONQUIN  
OATH OF OFFICE



I, Rodney A. Brown, do solemnly swear that I will support the Constitution of the United States, the Constitution of the State of Illinois, the Rules of the Algonquin Police Department, the Algonquin Police Commission Rules and Regulations, the Municipal Code of the Village of Algonquin, and that I will faithfully discharge the duties of the office of Police Officer according to the best of my ability.

\_\_\_\_\_  
Rodney A. Brown

\_\_\_\_\_  
*January 22, 2019*

Subscribed and Sworn on this date

\_\_\_\_\_  
Oath administered by: Gerald S. Kautz  
Village Clerk

STATE OF ILLINOIS	)
	) SS
COUNTY OF MCHENRY	)



**VILLAGE OF ALGONQUIN  
MEMORANDUM**

DATE: January 15, 2019

TO: Committee of the Whole

FROM: Tim Schloneger  
Village Manager

SUBJECT: ***Proposed Capital Budget – 2019/2020  
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 \$1,915,000 (including a transfer of \$1,320,000 from the Water & Sewer Operating Fund), and expenditures are budgeted at \$6,984,000. The existing cash reserves will cover the difference between revenues and expenditures. Additionally, IEPA Low Interest Loans will begin funding \$22,340,000 worth of scheduled projects.

**REVENUES - \$1,915,000**

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 - \$6,984,000 (\$22,340,000 multi-year projects separately covered by IEPA Low Interest Loans)**

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 - \$1,240,000 (\$1,490,000 separately covered by IEPA Low Interest Loans) - 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:

- Downtown Streetscape Stage 2 - Wet Utility construction to start in May 2019 (bidding in late Winter). This work is estimated at \$190,000 and will be funded by the IEPA Low Interest Loan. It will involve the Phase 3 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. 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.
- Downtown Streetscape Stage 3 – Wet Utility construction to start in Summer 2019 (bidding late Spring). \$20,000 is budgeted for the Phase 2 Engineering. Additionally, \$500,000 for Phase 3 Construction Oversight Services, funded by the IEPA Low Interest Loan, will go toward the 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.

## Proposed Budget 2019/2020

### Water and Sewer Improvement and Construction Fund

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- Elevated Storage Tank Evaluation -\$120,000 is allocated toward evaluating all of our above ground storage facilities to assess their proper function and place them into a long range schedule for maintenance and mechanical upgrades.
- Ratt Creek Reach 5 (High Hill Dam Area) Water & Sewer Improvements - \$140,000 is budgeted for Phase 1 and 2 Engineering for this project.
- Huntington to Countryside Watermain Improvements (East) - \$180,000 is allocated pursuant to Phase 1 & 2 engineering for a portion of a 16" watermain the runs from Towne Park to the east to the Countryside Standpipe/BPS. This project was identified in the Water System Master Plan.
- Huntington to Countryside Watermain Improvements (West) - \$180,000 is allocated pursuant to Phase 1 & 2 engineering for a portion of a 16" watermain that runs from Towne Park to the west for termination at the Huntington Standpipe/BPS. This project was identified in the Water System Master Plan.
- MCC (motor control center) - \$120,000 is allocated for upgrades at WTP 1, which is a continuation of work. 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.
- PRV Replacement Program Years 1 & 2 - \$150,000 is budgeted to evaluate and replace PRV's. Replacement was defined in the Water System Master Plan.
- Sewer System Project Plan/WWTP Phase 6B Improvements -This work totaling a projected \$800,000 will be covered by the IEPA Low Interest Loan. It will involve the 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.
- State Revolving Loan Admin Water & Sewer - \$60,000 is provided to have a consultant manage the water and sewer loan administration through the complex processes of the IL EPA.

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**Water and Sewer Improvement and Construction Fund**

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- Money (\$145,000) has been 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 torn up instead of having to come back and re-excavate new roads to deal with maintenance issues relative to the distribution and collection systems.
- Contract Engineer - \$75,000 (50/50 share - \$150,000 total) 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 (50/50 share - \$100,000 total) is budgeted to hire a public relations firm to address the ever increasing demand for more, and better, communication about infrastructure improvements projects within the Village. We are envisioning their scope of services to include 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 43348 – METERS AND SUPPLIES - \$1,850,000**

Replacement water meters - Funds are provided to purchase and install the second year of residential meter replacements. Year 1 concentrated on the replacement of larger meters, mostly located on commercial business properties, and the installation of reading equipment and computer interface backend upgrades that will allow us to manage all of our accounts. This budget is for Year 2, which will most likely focus on the east side of Village, wherever we set that imaginary line. Year 3 will complete the project by replacing the remainder of the meters in the Village to the far west end of town, plus any stragglers or uncooperative customers that will refuse access to our equipment without legal prodding.

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**Water and Sewer Improvement and Construction Fund**  
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ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$1,070,000

Funding 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 torn up instead of having to come back and re-excavate new roads to deal with maintenance issues relative to the distribution and collection systems:

- Crystal Creek (Main Street) Bridge Replacement - \$150,000
- Ratt Creek Reach 5 (High Hill Dam Area) Water - \$300,000
- Sleepy Hollow Road - \$120,000
- Terrace Hill - \$500,000

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 - \$2,200,000

MCC (motor control center) upgrades at WTP 1 is a continuation of work originally to be completed in the prior fiscal year. 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.

Monies are being provided here to fund improvements in the operation of the High Service Pumps at Water Treatment Plant No. 2 and No. 3. Presently, the Plant's HSP's operate at a fixed speed, fixed rate of pumping. Improvements will see the installation of continuous duty rated, premium efficient electric motors and VFD (Variable Frequency Drives) to enable Plant operations and staff to vary the speed and rate of pumping of the HSP's, providing rates of pumping more closely matched to the demands of the distribution system. The varied pumping

scheme better maintains elevated tower levels, reduces fluctuations in system pressures, realizes electrical.

ACCOUNT 45526 – WASTEWATER COLLECTION - \$0 (\$4,650,000 covered by IEPA Low Interest Loan)

- Downtown Streetscape Stage 2 - Wet Utility. Construction to start in May 2019 (bidding in late Winter). \$1,150,000 in work will involve the construction 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. 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.
- Downtown Streetscape Stage 3 -Stage 3 –Wet Utility. Construction to start in Summer 2019 (bidding late Spring). \$3,500,000 in work will involve 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 - \$270,000 (\$1,700,000 separately covered by IEPA Low Interest Loan)

- Downtown Streetscape Stage 2 -Wet Utility. Construction to start in May 2019 (bidding in late Winter). \$200,000 in work will involve the construction 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. 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. We have provided a number here to accomplish any sundry work to the water distribution system that may arise from the installation of the deep sewer.
- Downtown Streetscape Stage 3 -Stage 3 –Wet Utility. Construction to start in Summer 2019 (bidding late Spring). \$1,500,000 in work will involve 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



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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.

- Randall Road Widening Watermain Relocation - \$270,000 is provided for relocation of watermain in two areas of Randall Road widening. The two areas include west of the intersection of Randall Road/Algonquin Road and west of the intersection of Randall Road/Bunker Hill Drive as identified in an IGA with McHenry County DOT.

ACCOUNT 45570 – WASTEWATER TREATMENT FACILITY - \$0 (\$14,500,000 covered by IEPA Low Interest Loan)

Sewer System Project Plan/WWTP Phase 6B Improvements involves the construction of several large maintenance projects necessary to upgrade the existing WWTF to more manageable and serviceable conditions. The \$14,500,000 in 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.

IEPA LOAN PRINCIPAL EXPENSE - \$160,000

IEPA LOAN INTEREST EXPENSE - \$84,000

IEPA Low Interest Loans will begin funding \$22,340,000 worth of scheduled multi-year projects:

- \$190,000 for Downtown Streetscape - Stage 2 Water & Sewer - Construction Oversight
- \$500,000 for Downtown Streetscape - Stage 3 Water & Sewer - Construction Oversight
- \$800,000 for Sewer System Project Plan/WWTP Phase 6B Improvements - Construction Oversight
- \$1,150,000 for Downtown Streetscape - Stage 2 - Wastewater Collection
- \$3,500,000 for Downtown Streetscape - Stage 3 - Wastewater Collection
- \$200,000 for Downtown Streetscape - Stage 2 Construction Water Main

- \$1,500,000 for Downtown Streetscape - Stage 3 Construction Water Main
- \$14,500,000 for Sewer System Project Plan/WWTP Phase 6B - Improvements and Construction

#### **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 18/19 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 18/19 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 1 water & sewer improvements
- 2016 Distribution System Improvements
- Phase 1 engineering for WWTP 6B
- WTP 2 & 3 High Service Pump Improvements
- Year 1 of water meter replacement program
- SL-RAT inspection of sanitary manholes
- Sanitary sewer camera inspections
- Sanitary manhole rehabilitation
- Longmeadow parkway watermain



### Near Completion

- MCC Upgrades WTP1



### Not Complete

- Elevated Storage Tank Evaluation
- Huntington to Countryside Watermain east & west
- PRV Replacement program year 1

## FY 19/20 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

- Downtown streetscape Stage 2 water & sewer improvements
- Elevated Storage Tank Evaluation
- High Hill dam water & sewer improvements phase 1 engineering & construction
- Huntington to Countryside watermain east & west engineering
- PRV replacement program year 1 engineering

- PRV replacement program year 2 engineering
- Construction of WWTP 6B
- Year 2 of water meter replacement program
- Relevant water & sewer repairs as part of road reconstruction projects for Boyer & County Line, Crystal Creek Bridge, Sleepy Hollow Road and Terrace Hill
- Ongoing sanitary sewer rehabilitation



# Water and Sewer Improvement and Construction Fund

# Expenses

			FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 18/19	FY 19/20	FY 19/20	FY 19/20
			Actual	Actual	Actual	Q2	Budget	Dept.	Manager	Budget
<b>Nondepartmental</b>										
12900400	42230	Legal Services	\$ 1,331.25	\$ 2,143.75	\$ 1,662.50	\$ 875.00	\$ 15,000.00	\$ 10,000.00	\$ 10,000.00	\$ -
12900400	42232	Engineering Services	32,534.10	19,362.22	100,677.93	222,459.98	1,482,000.00	2,670,000.00	1,240,000.00	-
12900400	43348	Meters & Meter Supplies	-	-	-	794,689.88	1,850,000.00	1,850,000.00	1,850,000.00	-
12900400	43370	Infrastructure Maintenance	154,988.35	101,996.25	654,836.93	10,160.70	-	1,090,000.00	1,070,000.00	-
12900400	44416	Collection System Maintenance	-	-	-	11,713.88	260,000.00	100,000.00	100,000.00	-
<b>Subtotal</b>			\$ 188,853.70	\$ 123,502.22	\$ 757,177.36	\$ 1,039,899.44	\$ 3,607,000.00	\$ 5,720,000.00	\$ 4,270,000.00	\$ -
<b>Capital Expenditures</b>										
12900400	45520	Water Treatment Plant	\$ -	\$ -	\$ -	\$ -	\$ 1,150,000.00	\$ 2,200,000.00	\$ 2,200,000.00	\$ -
12900400	45526	Wastewater Collection	-	-	-	460,517.45	490,000.00	4,650,000.00	-	-
12900400	45565	Water Main	-	-	1,096.19	628,643.86	740,000.00	1,970,000.00	270,000.00	-
12900400	45570	Wastewater Treatment Facility	78,448.07	34,316.00	-	-	-	14,500,000.00	-	-
<b>Subtotal</b>			\$ 78,448.07	\$ 34,316.00	\$ 1,096.19	\$ 1,089,161.31	\$ 2,380,000.00	\$ 23,320,000.00	\$ 2,470,000.00	\$ -
<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>			\$ 267,301.77	\$ 157,818.22	\$ 758,273.55	\$ 2,129,060.75	\$ 5,987,000.00	\$ 29,040,000.00	\$ 6,984,000.00	\$ -
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 15, 2019  
TO: Committee of the Whole  
FROM: Tim Schloneger  
Village Manager

***SUBJECT: Proposed Capital Budgets – 2019/2020 - MFT and Street Improvement Funds***

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**OVERVIEW**

Attached are the proposed fiscal year 2019/2020 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 \$6,095,000. The projected revenue for the two funds total \$10,020,000 (including General Fund Transfers), and the proposed engineering, road construction and maintenance expenditures total \$16,115,000.

**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.



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**MFT and Street Improvement Funds**  
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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 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 2019/2020 reflects the fourth year of the improvement efforts.

**MFT FUND REVENUES - \$845,000**

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 - \$1,285,000**

ACCOUNT 42232 - ENGINEERING/DESIGN - \$0

ACCOUNT 43309 - MATERIALS - \$450,000

- \$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.
- \$130,000 - We are providing money to purchase asphalt material so our in-house crews can patch failing sections of pavement.

ACCOUNT 43370 - INFRASTRUCTURE MAINTENANCE - \$120,000

This line item cover contracted services to maintain the Village infrastructure as it pertains to ROW's. This year we are proposing to contract out many of our maintenance services. Bike path cost is based on 3,200 SY of remove and replace asphalt.

ACCOUNT 44427 – MAINTENANCE – CURB/SIDEWALK - \$240,000

This line item cover contracted services to maintain the Village infrastructure as it pertains to ROW's. Concrete contracted approx. \$6.00 sq. ft. (we have 2,300 sq. ft. to replace).

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**ACCOUNT 44428 – MAINTENANCE – STREETS - \$140,000**

This line item covers contracted services to maintain the Village infrastructure as it pertains to ROW's. Street sweeping provides for 13 cycles of the Village throughout the year, and contingency costs for special event and emergency call out sweeping services. Of this total, \$40,000 is included for outsourced pavement marking services.

**ACCOUNT 44429 – MAINTENANCE – STREET LIGHTS - \$185,000**

This line item covers contracted services to maintain the Village infrastructure as it pertains to ROW's. Street light maintenance is based a 2-year contract that was bid out last year for the maintenance of Village owned street lights. This is the second year of our contract.

**ACCOUNT 44431 – MAINTENANCE – STORM SEWER - \$80,000**

This line item covers contracted services to maintain the Village infrastructure as it pertains to ROW's. Monies are 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. The number has increased for this year because there are more structures in the zone we plan to flush this year.

**ACCOUNT 45593 – CAPITAL IMPROVEMENTS – \$70,000**

Money is also budgeted here to final out the installation of the Harper Drive Bike Path. This is the Village's portion of the cost after receiving the CMAQ grant.

**STREET IMPROVEMENT FUND REVENUES - \$9,175,000**

The estimated revenues for the Street Improvement Fund include the utility tax receipts, telecommunications tax, 100% of the home rule sales taxes, interest estimated for this fiscal year, and a \$3,600,000 inter-fund transfer from the General Fund. This transfer includes monies previously allocated to the debt service payment of the Public Works Facility, which mature in 2020.

**STREET IMPROVEMENT FUND EXPENDITURES - \$16,115,000**

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 - \$3,055,000 - 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 - \$60,000 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.
- Broadsmore & Stonegate Roads - \$30,000 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 - \$200,000 is provided for the Main Street Bridge over Crystal Creek is being replaced in conjunction with the Downtown Streetscape Stage 1A project. The improvements are complimentary to the Streetscape enhancements and will include ornamental railings, arbor, lighted archway and pedestrian walks and gathering areas to highlight the structure and improve the user experience. This amount is for construction oversight of the project.
- Crystal Creek Improvements - \$5,000 is provided for 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. Money is budgeted to final out the project.

- Downtown Streetscape Dry Utility Relocation Section 2 - \$125,000 is provided for the second section of the utility line lowering including S. Harrison St, Washington St. between Towne Park & S. Harrison St., and S. Harrison St. Parking Lot.
- Downtown Streetscape S. Harrison St. Parking Lot - \$50,000 is provided to start phase 1 engineering on the combined parking lot.
- Downtown Streetscape Stage 1D Roadway - \$170,000 is provided to finish out the engineering for the roundabout at Cary-Algonquin Road as well as the “road diet” between the roundabout and Riverview Drive. This also includes the work to ensure the bike path connection through downtown that has approved federal transportation (ITEP) money for its construction.
- Downtown Streetscape Stage 3 Roadway - \$900,000 is provided to start design on the decorative streetscape elements for stage 3 which includes S. Harrison St. from Algonquin Rd. to Washington St., Washington St. from Main St. to LaFox River Dr., and LaFox River Dr. from Cornish Park to Center St.
- Downtown Streetscape Riverwalk and S. Harrison St. Bridge - \$200,000 is provided to complete the design for this portion of the streetscape. The work also includes a soils report around the riverwalk improvements to ensure the design addresses any environmental issues.
- Gaslight Drive - \$10,000 is provided to pay for construction oversight on this project that was substantially completed last FY. These funds are to final out the projects and complete the punch list.
- 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 Village Engineer is currently assessing the situation and will be providing engineering solutions to the issue, if such solutions exist in the practical sense. These funds may be used to make physical changes to the creek, rerouting of the flow, or purchasing lots to mitigate over the bank flooding issues, or a combination of all of the above.

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- Harnish Drive - \$45,000 is provided to finish the Phase 2 engineering for this project. The work will involve improvements to Harnish Drive from the commercial area west of Dawson Mill Subdivisions, to the intersection of Harnish and Huntington Drive, in front of Neubert School.
- High Hill Subdivision - \$125,000 is provided 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 - \$50,000 for engineering services is budgeted, 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 in the Gaslight West Subdivision has \$120,000 allocated to address one of our greatest maintenance challenges in the Village of Algonquin. 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. Money is provided to begin engineering to correct the drainage issues that reside in the low portion of this subdivision.
- Lake Drive South - \$45,000 is budgeted for this project, which 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 on Lake Drive South will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Lake Drive South, from Algonquin Road to Huntington Drive N, including the adjacent cul-de-sacs of Lake Drive Court and Falcon Ridge Ct.
- Randall Road Ratt Creek Wetland Complex -The Village is proposing to use \$20,000 in local funds for the Phase 2 design and construction of the Randall Road Wetland Complex project between Randall Road and Stonegate Road. The project includes improving the existing wetland complex 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. The project will also include constructing a pedestrian walkway and bridge across the berm spillway to a wetland educational focal point. The wetlands will be reshaped for purposes of added detention, invasive species will be physically and chemically removed, and upgraded wetland species will be added to the area to enhance and upgrade floristic quality. 5 years of maintenance will be included in the design of the project.

- Ratt Creek Reach 5 - Now that the Harper Drive bike path connection has been constructed, \$80,000 is budgeted 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.
- Scott, Souwanas & Schuett - \$20,000 is provided to complete phase 2 engineering 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.
- Sleepy Hollow Road - \$125,000 is budgeted for this busy major collector road that bisects the Willoughby Farms subdivision and serves the Village's largest middle school. The project will involve removal of the driving surface, corrective repairs to failed subbase, bike path repairs, sidewalk removal and replacement where necessary, curb and gutter patching, storm sewers system repairs, replacement of the asphalt driving surface, and landscape restoration to areas disturbed by construction.
- Souwanas Creek Reach 2 - \$35,000 is provided to begin construction for a very failed section of Souwanas Creek which runs under Souwanas Drive and flows behind the townhomes on Stratford Lane in the Riverwoods Subdivision, before making its way through Algonquin Shores and eventually to the Fox River. This creek makes about a 90-degree turn in a junction chamber just south of Souwanas, 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 the unincorporated Algonquin Shores Subdivision for many years since development on the east side of Algonquin increased.

- Stonegate Road - \$60,000 is provided 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 - \$400,000 is provided to finish phase 2 engineering for Terrace Hill and begin construction. The project 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.
- Terrace Hill Golf Course Drainage Report - \$15,000 is provided to cover the cost of a report that will analyze the exceedingly poor drainage on, around and across the Terrace Hill Golf Club. The poor design of this drainage system creates excessive flooding to the homes in Terrace Hill and Prestwicke Subdivisions near the intersection of Bunker Hill and Clover. This report will guide us to current and future solutions to this problem.
- Contract Engineer - \$75,000 (50/50 share \$150,000 total) 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 (50/50 share \$100,000 total) is budgeted to hire a public relations firm to address the ever increasing outcry for more, and better, communication about infrastructure improvements projects within the Village. We are envisioning their scope of services to include 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.

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ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE- \$740,000 – The anticipated projects include the following:

- Gaslight Drive - \$100,000 is provided to pay for construction on this project that was substantially completed last FY. These funds are to final out the project and complete the punch list.
- Grand Reserve Drainage - \$300,000 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 Village Engineer is currently assessing the situation and will be providing engineering solutions to the issue, if such solutions exist in the practical sense. These funds may be used to make physical changes to the creek, rerouting of the flow, or purchasing lots to mitigate over the bank flooding issues, or a combination of all of the above.
- Harper Drive Culvert Repair - \$140,000 is budgeted to fix the 72-inch culvert that runs under Harper Drive at the intersection with Edgewood Road. This is a corrugated metal pipe that was installed by the developer in the 1970's. Because of the material of the pipe, it has significantly rusted and large pieces of it have fallen off and washed downstream. If not repaired, this will eventually collapse the road in this location. Because an open creek (Ratt Creek Tributary) runs through this pipe to convey the water under the road, we are proposing to line it with a geopolymer material in order to avoid excavation of the road, disturbance of the restored creek, and the need for an ArmyCorp of Engineers Permit.
- Highland Avenue Detention Maintenance - \$25,000 is provided 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 2 of 5.
- Reclamite Treatment - \$70,000 is provided to apply the product 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.
- Surrey Lane Creek & Drainage Repair - \$25,000 is budgeted to follow up on the native plantings of the stream bank stabilization project and provide any needed maintenances



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for the Village to ensure the maximum chance for survival and establishment of this native stream bank restoration.

- Souwanas Creek Emergency Repair -This project was done last fiscal year and was an emergency that came up due to the failure of the storm sewer pipe through Souwanas Creek and the subsequent erosion issues it was causing. \$25,000 is budgeted to wrap up any punch list or restoration items that may remain outstanding. This will also cover year 1 of the maintenance period in order to properly establish the native plantings.
- Storm Sewer Lining - \$25,000 is budgeted 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.
- 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.
- Woods Creek Reach 2 Maintenance - \$20,000 is allocated for ongoing maintenance.

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

ACCOUNT 45593 – CAPITAL IMPROVEMENTS - \$12,310,000 – the anticipated projects include the following:

- Crystal Creek Bridge Replacement - \$1,500,000 is budgeted to replace the Main Street Bridge over Crystal Creek in conjunction with the Downtown Streetscape Stage 1A project. FAU/STP funds are being used to cover 80% of the construction of the bridge. The improvements are complimentary to the Streetscape enhancements and will include ornamental railings, arbor, lighted archway and pedestrian walks and gathering areas to highlight the structure and improve the user experience.
- Crystal Creek Improvements - \$40,000 is budgeted 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.

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- Highland Avenue (FAU) - \$1,000,000 will cover the amount we are still waiting to be billed from IDOT.
- Randall Road Pedestrian Bridge - \$270,000 is provided to in order to finish the design for the Pedestrian Bridge. This is now being built as part of the McDOT Randall Road Widening Project.
- Randall Road Wetland Complex - The Village is proposing to use \$150,000 in local funds for construction of the Randall Road Wetland Complex project between Randall Road and Stonegate Road. The project includes improving the existing wetland complex 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. The project will also include constructing a pedestrian walkway and bridge across the berm spillway to a wetland educational focal point. The wetlands will be reshaped for purposes of added detention, invasive species will be physically and chemically removed, and upgraded wetland species will be added to the area to enhance and upgrade floristic quality. 5 years of maintenance will be included in the design of the project.
- Sleepy Hollow Road - \$3,000,000 is budgeted for this busy major collector road that bisects the Willoughby Farms subdivision and serves the Village's largest middle school. The project will involve removal of the driving surface, corrective repairs to failed subbase, bike path repairs, sidewalk removal and replacement where necessary, curb and gutter patching, storm sewer system repairs, replacement of the asphalt driving surface, and landscape restoration to areas disturbed by construction.
- Souwanas Creek Reach 2 - \$500,000 is provided to finish out phase 2 engineering services and begin construction for a very failed section of Souwanas Creek which runs under Souwanas Drive and flows behind the townhomes on Stratford Lane in the Riverwoods Subdivision, before making its way through Algonquin Shores and eventually to the Fox River. This creek makes about a 90-degree turn in a junction chamber just south of Souwanas, 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 the unincorporated Algonquin Shores Subdivision for many years since development on the east side of Algonquin increased.
- Terrace Hill - \$5,300,000 is budgeted for 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.

- Downtown Streetscape Stage 4A – MCCD Trailhead - \$550,000 is provided 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.

#### **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

# 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.



*Resurfacing work performed on a residential street in Algonquin*

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.

## FY 18/19 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 18/19 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.



### Complete

- Crystal Creek Western Bypass Corrections
- Gaslight Drive Street Improvements
- Downtown Streetscape Phase 1A
- Engineering for Randall Road Wetland Complex
- Engineering for Souwanas Creek Reach 2



### Near Completion

- Crystal Creek Bridge



### Not Complete

- Phase 2 engineering for Algonquin Lakes
- Phase 1 engineering for Broadsmore & Stonegate Roads
- Construction of Boyer & County Line Roads
- Phase 2 engineering for Harnish Drive
- Phase 1 engineering for High Hill subdivision
- Phase 1 engineering for Lake Braewood Drainage
- Lake Drive South construction
- Phase 2 engineering for Ratt Creek Reach 5
- Phase 2 engineering for Scott, Souwanas & Schuett Streets
- Phase 1 engineering for Stonegate Road

## FY 19/20 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

- Finish Phase 2 engineering for Algonquin Lakes
- Finish Phase 1 engineering for Broadmore & Stonegate Roads
- Downtown Streetscape
- Finish Phase 2 engineering for Harnish Drive
- Finish Phase 1 engineering for High Hill subdivision
- Finish Phase 1 engineering for Lake Braewood Drainage
- Engineering for joint salt dome facility with McHenry County Dept of Transportation
- Randall Road Pedestrian Underpass
- Finish Phase 2 engineering for Scott, Souwanas & Schuett Streets
- Road re-construction on Sleepy Hollow Road
- Finish Phase 1 engineering for Stonegate Road
- Road re-construction in Terrace Hill subdivision

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

- Grand Reserve Drainage
- Construct Randall Road Wetland complex
- Finish engineering for Ratt Creek reach 5
- Construct Souwanas Creek Reach 2

## Performance Measures

The FY 19/20 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	2016	2017	2018		2019
		Actual	Actual	Target	Actual	Target
Provide adequate infrastructure throughout the Village.	Miles of streets improved <sup>1</sup>	3.2	6	3.5	0.8	3.0
	Construction costs of street improvement fund projects <sup>1</sup>	\$3,900,000	\$8,000,000	\$17,000,000	\$1,500,000	\$12,000,000
	Percentage of overall street system improved <sup>1</sup>	2%	3%	4%	0.5%	4%

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 15/16	FY 16/17	FY 17/18	FY 18/19	FY 18/19	FY 19/20
			Actual	Actual	Actual	Budget	Q2	Budget
04000500	31011	Home Rule Sales Tax	\$ 4,120,849.21	\$ 4,227,204.96	\$ 4,187,426.26	\$ 4,150,000.00	\$ 2,041,289.65	\$ 4,240,000.00
04000500	31190	Telecommunications Tax	339,046.89	318,838.18	286,035.63	280,000.00	141,004.76	265,000.00
04000500	31495	Utility Tax Receipts	899,377.48	923,668.17	919,159.83	900,000.00	471,005.28	925,000.00
04000500	33012	Intergovernmental Agreement	-	18,103.35	-	-	-	-
04000300	33032	Donations - Operating - PW	-	-	2,673.13	-	-	-
04000300	33052	Donations - Capital - PW	(15,000.00)	2,327.47	-	-	-	-
04000300	33252	Grants - Capital - PW	-	302,294.10	49,796.10	-	-	-
04000500	36001	Interest	118.92	476.30	572.98	-	229.26	500.00
04000500	36020	Interest -Investment Pools	16,438.10	41,413.84	85,114.32	50,000.00	76,596.71	144,500.00
04000500	38001	Transfer - General Fund	-	1,000,000.00	-	600,000.00	600,000.00	3,600,000.00
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>\$ 5,360,830.60</b>	<b>\$ 7,134,126.95</b>	<b>\$ 5,530,778.25</b>	<b>\$ 5,980,000.00</b>	<b>\$ 3,532,080.52</b>	<b>\$ 9,175,000.00</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 15/16	FY 16/17	FY 17/18	FY 18/19	FY 18/19	FY 19/20	FY 19/20	FY 19/20
			Actual	Actual	Actual	Q2	Budget	Dept.	Manager	Budget
04900300	42230	Legal Services	\$ 6,917.50	\$ 12,251.75	\$ 22,494.53	\$ 3,762.50	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ -
04900300	42232	Engineering/Design Services	861,375.82	1,368,982.80	647,981.93	261,268.63	2,035,000.00	3,290,000.00	3,055,000.00	-
04900300	43370	Infrastructure Maintenance	398,480.14	3,147,975.38	1,693,520.65	81,221.28	4,480,000.00	3,760,000.00	740,000.00	-
04900300	45593	Capital Improvements	1,166,126.88	2,475,645.51	391,642.15	1,895,308.36	9,080,000.00	11,610,000.00	12,310,000.00	-
04900300	45595	Land Acquisition	-	94,628.00	622,283.47	11,500.00	-	750,000.00	-	-
<b>Street Improvement Fund Total</b>			<b>\$ 2,432,900.34</b>	<b>\$ 7,099,483.44</b>	<b>\$ 3,377,922.73</b>	<b>\$ 2,253,060.77</b>	<b>\$ 15,605,000.00</b>	<b>\$ 19,420,000.00</b>	<b>\$ 16,115,000.00</b>	<b>\$ -</b>

# 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 18/19 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 18/19 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.



### Complete

- Purchase of asphalt materials & road salt for maintenance of Village streets
- Bike path repairs
- Concrete sidewalk, driveway & curb removal and replacement
- Pavement marking
- Street sweeping
- Village-owned street light maintenance
- Storm sewer cleaning



### Near Completion

- N/A



### Not Complete

- N/A

## FY 19/20 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*

- Purchase of asphalt materials & road salt for maintenance of Village streets
- Bike path repairs
- Concrete sidewalk, driveway & curb removal and replacement
- Pavement marking
- Street sweeping
- Village owned street light maintenance
- Storm sewer cleaning



## Performance Measures

The FY 19/20 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	2016	2017	2018		2019
		Actual	Actual	Target	Actual	Target
Provide adequate infrastructure throughout the Village.	Miles of streets improved <sup>1</sup>	0.6	0	0	0	Output
	Construction costs of MFT street improvement projects <sup>1</sup>	\$700,000	\$0	\$0	\$0	Output
	Percentage of overall street system improved <sup>1</sup>	0.3%	0%	0%	0%	Output
Notes: <sup>1</sup> – Strategies and measures are only applicable to the MFT-funded portion of the project. Other funds and revenue sources also contribute to the construction and maintenance of the Village’s street system.						

Motor Fuel Tax Fund

Revenues

			FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 18/19	FY 19/20
			Actual	Actual	Actual	Budget	Q2	Budget
03000300	33015	MFT Allotments	\$ 806,435.11	\$ 761,560.71	\$ 767,164.92	\$ 773,000.00	\$ 378,796.26	\$ 758,000.00
03000300	33017	High Growth Allotment	-	37,932.00	37,287.00	37,000.00	-	36,000.00
03000300	33052	Donations - Capital	2,958.79	50,339.97	-	-	-	-
03000500	36020	Interest - Investment Pools	2,748.35	10,765.36	28,112.36	10,000.00	27,134.85	51,000.00
<b>Motor Fuel Tax Fund Total</b>			<b>\$ 812,142.25</b>	<b>\$ 860,598.04</b>	<b>\$ 832,564.28</b>	<b>\$ 820,000.00</b>	<b>\$ 405,931.11</b>	<b>\$ 845,000.00</b>

# Motor Fuel Tax Fund

# Expenditures

			FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 18/19	FY 19/20	FY 19/20	FY 19/20
			Actual	Actual	Actual	Q2	Budget	Dept.	Manager	Budget
03900300	42232	Engineering/Design Services	\$ 168,148.95	\$ 189,368.80	\$ 1,878.26	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -
03900300	43309	Materials	302,751.91	288,803.23	322,555.62	113,915.13	454,000.00	450,000.00	450,000.00	-
03900300	43370	Infrastructure Maintenance	-	787,635.98	(170,820.19)	-	120,000.00	120,000.00	120,000.00	-
03900300	44427	Maintenance - Curb/Sidewalk	-	-	-	257,312.30	240,000.00	240,000.00	240,000.00	-
03900300	44428	Maintenance - Streets	-	-	-	24,890.00	140,000.00	140,000.00	140,000.00	-
03900300	44429	Maintenance - Street Lights	-	-	-	9,002.90	185,000.00	185,000.00	185,000.00	-
03900300	44431	Maintenance - Storm Sewer	-	-	-	48,304.76	50,000.00	80,000.00	80,000.00	-
03900300	45593	Capital Improvements	57,924.33	133,984.80	-	-	70,000.00	70,000.00	70,000.00	-
<b>Motor Fuel Tax Fund Total</b>			<b>\$ 528,825.19</b>	<b>\$ 1,399,792.81</b>	<b>\$ 153,613.69</b>	<b>\$ 453,425.09</b>	<b>\$ 1,269,000.00</b>	<b>\$ 1,285,000.00</b>	<b>\$ 1,285,000.00</b>	<b>\$ -</b>



**VILLAGE OF ALGONQUIN  
MEMORANDUM**

**DATE:** *January 15, 2019*

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

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

**SUBJECT:** *Proposed Capital Budget – 2019/2020 – Park Improvement Fund*

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**OVERVIEW**

The Park Improvement Fund is utilized for the acquisition of parklands, development of and improvements to new 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, as of July 1, 2015, a portion (2.25% tax rate) of the revenue from the village's telecommunications tax is also being dedicated to the fund.

## **Proposed Budget – 2019/2020**

### **Park Fund**

#### **Page 2**

**January 15, 2019**

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### **PARK FUND REVENUES - \$360,000**

Revenues include \$15,000 in interest income, \$105,000 in video gaming terminal tax receipts, \$220,000 from the dedicated portion of the telecommunications tax, and \$20,000 in reforestation and watershed donations.

### **PARK FUND EXPENDITURES - \$1,295,000**

#### **ACCOUNT 42232 – ENGINEERING AND DESIGN - \$280,000**

- Creeks Crossing Park Drainage & Improvements - \$20,000 for construction management services is provided to final out this project. This area was planted with native prairie, the riparian corridor was enhanced, the detention basins that were to serve the build out of the subdivision were filled, and a bike path connection was made through this park.
- Gaslight Tennis Court Rehab - \$10,000 is 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.
- Kelliher Park Parking Lot - \$35,000 for construction oversight is included for the parking lot expansion project. This much needed project will eliminate safety issues related to not having enough spaces and customers parking randomly all over this facility.
- Stoneybrook Park Improvements - \$10,000 is provided for engineering 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. We hope to provide a better neighborhood park with better, and more variety of, attributes. The amount provided is to finish out the phase 2 engineering.
- Willoughby Farms Park Improvements - \$90,000 is provided for engineering maintenance improvements at Willoughby Farms Park. As parks age, the playgrounds, tennis courts, and in this case, the in-line rink/basketball court need to be updated. This project will address every need at this site at one time to provide a comprehensive facility update.
- Woods Creek Reach 4 - \$35,000 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.

- Parks and Recreation Master Plan - \$80,000 is provided to develop a Parks and Recreation Master Plan to update plans developed 10+ years ago to guide physical park development and recreation programming. A CMAP LTA program application was submitted for this program in which we will hear back in 2019.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$105,000

- Algonquin Lakes Basketball Court Rehab - \$30,000 is budgeted for rebuilding of this court including asphalt, court acrylic paint, and resetting some benches.
- Creeks Crossing Park & Drainage Improvement project - \$20,000 is provided for year 1 of the maintenance period to establish the native restoration in the Creeks Crossing Park & Drainage Improvement project.
- Natural Area Maintenance - \$40,000 is provided for natural area maintenance. In past years an assessment done of our natural areas which included wetland detention basins, detention basins, wetlands, and native planted open space. The plan outlined a series of maintenance steps 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.
- Spella Pollinator Project - Last year the Village received a grant through the ComEd Green Regions Program to convert the mowed sled hill into a pollinator habitat. \$15,000 is budgeted for year 1 of the maintenance period in order to get this new native area established.

ACCOUNT 44402 – REFORESTATION - \$55,000

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.

## Proposed Budget – 2019/2020

### Park Fund

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January 15, 2019

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#### ACCOUNT 44408 – WETLAND MITIGATION - \$15,000

As part of the ongoing maintenance required in restored and newly established natural areas, it is essential to monitor the sites to make sure that they are not being invaded by non-native species, that the native plantings are establishing and growing as designed, and that no other ecological problems occur that could negate the restoration work. Because the monitoring involves specific knowledge of botany, ornithology and wetland and prairie matrices, it must be done by a qualified ecologist.

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. Money has been provided for maintenance of the area to include spot herbiciding, mowing & burning.

#### ACCOUNT 44425 – MAINTENANCE – OPEN SPACE - \$30,000:

As part of the ongoing maintenance required in restored natural areas, it is essential to monitor the sites to make sure that they are not being invaded by non-native species. Some restored areas are showing patches of heavy Phragmites growth. If not specifically targeted and aggressively eradicated, this non-native species will take over the restored areas. Areas to be targeted are the Spella Wetland and the fens along the Woods Creek Corridor

#### ACCOUNT 45593 – PARK DEVELOPMENT - \$810,000

- Creeks Crossing Park Drainage & Improvements - \$60,000 for construction services is provided to final out this project. This area was planted with native prairie, the riparian corridor was enhanced, the detention basins that were to serve the build out of the subdivision were filled, and a bike path connection was made through this park.
- Kelliher Park Parking Lot - \$500,000 for construction costs is included for the parking lot expansion project. This much needed project will eliminate safety issues related to not having enough spaces and customers parking randomly all over this facility.
- Woods Creek Reach 4 - \$250,000 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.

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 18/19 Accomplishments

The following list provides a status update for departmental objectives outlined in the FY 18/19 budget document and other tasks completed during the fiscal year. The status list is current as of the date this document was published.



### Complete

- Construction of Creeks Crossing Park and associated drainage improvements.
- Phase 1 engineering for Willoughby Farms Park
- Natural areas management



### Near Completion

- N/A



### Not Complete

- N/A

## FY 19/20 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*

- Kelliher Park Parking Lot
- Phase 2 engineering for Stoneybrook Park Improvements
- Phase 2 engineering for Willoughby Farms Park
- Algonquin Lakes Basketball Court rehab
- Develop Parks and Recreation Master Plan to guide future park development consistent with tastes and preferences of the community

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

- Woods Creek Reach 4

## Performance Measures

The FY 19/20 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 #6: Continue to Promote and Develop Programs with a Conservation Focus						
Department Objective	Strategy/Measure	2016	2017	2018		2019
		Actual	Actual	Target	Actual	Target
Preserve and enhance Village's tree resources.	Total Number of Trees Planted	469	200	200	500	300
	Total Cost per Tree <sup>1</sup>	\$140	\$140	\$140	\$140	\$140
	Number of Tree Sites Remaining on Wait List	1,275	1,625	1,400	1,100	800

1 – Tree only, not installation.

# Park Improvement Fund

# Revenues

			FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 18/19	FY 19/20
			Actual	Actual	Actual	Budget	Q2	Budget
06000500	31175	Video Gaming Terminal Tax	\$ 96,068.43	\$ 115,786.73	\$ 110,846.12	\$ 120,000.00	\$ 51,669.68	\$ 105,000.00
06000500	31190	Telecommunications Tax	260,678.87	269,241.12	241,541.19	240,000.00	119,070.66	220,000.00
06000300	33052	Donation - Capital - PW	329,175.00	12,212.58	27,390.00	-	211,353.00	-
06000300	33150	Donation - Ecosystem Maint.	-	-	-	-	-	-
06000300	33152	Donation - Reforestation	47,100.00	3,500.00	33,025.00	-	19,700.00	15,000.00
06000300	33153	Donation - Watershed	4,539.17	7,849.20	5,159.36	-	66,723.50	5,000.00
06000300	33155	Donation - Wetland Mitigation	38,567.26	-	100.00	-	-	-
06000300	33232	Grants - Operating - PW	-	-	10,000.00	-	-	-
06000500	36001	Interest	133.26	122.35	149.70	100.00	93.89	100.00
06000500	36020	Interest - Investment Pools	494.70	2,247.92	5,957.50	3,000.00	7,219.58	14,900.00
06000500	38001	Transfer - General Fund	-	-	-	400,000.00	400,000.00	-
<b>Park Fund Total</b>			<b>\$ 776,756.69</b>	<b>\$ 410,959.90</b>	<b>\$ 434,168.87</b>	<b>\$ 763,100.00</b>	<b>\$ 875,830.31</b>	<b>\$ 360,000.00</b>

