

AGENDA
COMMITTEE OF THE WHOLE
January 23, 2018
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. **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.*)
3. **Community Development**
 - A. Consider Amending the Letter of Credit Form in Appendix F, Chapter 22 Subdivision Ordinance, of the Algonquin Municipal Code
 - B. Consider the 2018 Zoning Map Update
4. **General Administration**
 - A. Presentation for Capital Budget for 2018/2019
 1. Proposed Water and Sewer Improvement and Construction Budget
 2. Proposed MFT and Street Improvement Budgets
 3. Proposed Park Improvement Budget
5. **Public Works & Safety**
 - A. Consider an Intergovernmental Agreement with Algonquin Township Road District
 - B. Consider an Agreement with Christopher Burke Engineering for Phase 2 Design Services for the Randall Road Wetland Complex
6. **Executive Session**
7. **Other Business**
8. **Adjournment**



VILLAGE OF ALGONQUIN
COMMUNITY DEVELOPMENT DEPARTMENT

– M E M O R A N D U M –

DATE: January 23, 2018

TO: Committee of the Whole

FROM: Katie Parkhurst, AICP, Senior Planner

SUBJECT: *Amend Appendix F, Chapter 22 of the Municipal Code*

Additional clarification to the terms in which a letter of credit can expire was requested by a bank. After review by staff and Kelly Cahill it was determined this clarification should be added to the standard form. The standard letter of credit form, as provided in Appendix F of the Subdivision Ordinance, Chapter 22 of the Municipal Code, shall include the underlined language.

This letter of credit shall expire on the date referenced above only if we provide written notice, at least sixty (60) days prior to the expiry date, to the village clerk at the address shown above, by certified mail or hand-delivered courier, that we elect not to extend this letter of credit for any additional period. In no event shall this Letter of Credit or the obligations contained herein expire without such prior written notice, it being expressly agreed that the above expiration date shall be extended as required to comply with this notice provision.

The entire letter of credit form, a portion of Appendix F, is attached. Staff recommends moving this to the Village Board for approval.

APPENDIX F
LETTER OF CREDIT FORM

(This form must be used verbatim, please fill in the blanks and make selections)

BENEFICIARY:

Village of Algonquin
2200 Harnish Drive
Algonquin, IL 60102

Date:

By the order of Applicant:

(Name):

(Address):

We hereby issue in your favor our Irrevocable Stand-by Letter of Credit No. _____
“Letter of Credit” for the account of _____ (Applicant) for an amount or amounts not to
exceed in the aggregate US dollars _____ (Amount) available at sight upon presentation
of a written demand signed by one of the following officers of the Village of Algonquin: President,
Village Manager, Village Clerk, Deputy Village Clerk, or Village Treasurer, signed as such,
stating as follows:

“The amount of \$ _____ (US Dollars only) is hereby drawn under
_____ (name of issuer bank) Letter of Credit Number _____ in accordance
with the terms of:

1. An annexation agreement between _____ (name of
developer or applicant) and the Village of Algonquin, with regard to
_____ (development or subdivision name), and
_____ (name of developer or applicant) is in default
thereunder;
2. A Public Improvements Completion Agreement dated _____ between
Applicant and the Village of Algonquin, and _____
_____ (name of developer or applicant) is in default thereunder;
3. An agreement between the Village of Algonquin and _____
(name of developer or applicant), dated _____, and
_____ (name of developer or applicant) is in default thereunder;
4. The Village Subdivision Control Ordinance and that _____
(name of developer or applicant) is in violation of the Village; or

5. _____ (name of developer or applicant) has failed to deliver to the Village satisfactory evidence of renewal of Letter of Credit No. _____ and that the Letter of Credit will expire within 60 days or less.

The principal amount of the Letter of Credit may be reduced, prior to the then current expiration date, upon presentation of a written statement from the Village of Algonquin, signed by the President or the Manager of the Village of Algonquin, certifying the dollar amount of such reduction, which shall not be more than the remaining unpaid principal balance of this Letter of Credit, and that the reduction in the amount requested is permitted pursuant to the recommendation of the Village Engineer. In the event the _____ (developer/applicant) is in default under the Public Improvements Completion Agreement for not completing one or more of the public improvements within the timeframes required in said Agreement, then any request for a reduction shall be accompanied by a revised Engineers Opinion of Probable Costs outlining the estimated costs of the remaining improvements covered by this Letter of Credit No. _____, and in no case shall this Letter of Credit be reduced to an amount less than one hundred twenty percent (120%) of those remaining improvements.

This Letter of Credit shall expire on the date referenced above only if we provide written notice, at least sixty (60) days prior to the expiration date, to the Village Clerk at the address shown above by certified mail or hand-delivered courier that we elect not to extend this Letter of Credit for any additional period. **In no event shall this Letter of Credit or the obligations contained herein expire without such prior written notice, it being expressly agreed that the above expiration date shall be extended as required to comply with this notice provision.**

We hereby agree with Beneficiary that if, on or before the Expiration Date, any such draft and any such certificate is presented to us at our Illinois office as specified under this Letter of Credit, at or prior to 10:00 a.m. _____ (city of opening bank) on a business day, and provided that such documents presented to us conform with the terms and conditions hereof, payment shall be effected in immediately available funds by certified funds or wire transfer in accordance with the instructions set forth on such certificate by the close of the next following business day. A business day shall mean any day other than a Saturday, Sunday or a day on which banking institutions in the City of Chicago are authorized or required by law to close.

If a demand for payment by you hereunder does not, in any respect, conform to the terms and conditions of this Letter of Credit, we will give prompt notice that the demand for payment was not submitted in accordance with the terms and conditions of this Letter of Credit, we will state the reasons therefore and will upon your instructions hold any documents at your disposal or return the same to you. Upon being notified with detail that the demand for payment does not conform with the terms and conditions of this Letter of Credit, you may attempt to correct any such non-conforming demand for payment to the extent that you are able to do so on or before the Expiration Date.

If, within three days after any draft drawn under this Letter of Credit is presented to us in conformance with the terms of this Letter of Credit, we fail to honor it, we agree to pay all attorney's fees, court costs, and other expenses incurred by the Village in enforcing the terms hereof.

This Letter of Credit sets forth in full the terms of our undertaking and such undertaking shall not in any way be modified, amended, or amplified by reference to any document or instrument referred to herein or in which this Letter of Credit is referred to or to which this Letter of Credit relates and any such reference shall not be deemed to incorporate herein by reference any document or instrument.

Any controversy or claim arising out of or relating to this Letter of Credit, or the breach thereof, shall be settled by binding arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules or JAMS Dispute Resolution as determined in your discretion, at the William J. Ganek Municipal Center, 2200 Harnish Drive, Algonquin, Illinois, 60102, and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. The Village may elect, at its exclusive option, to file suit by litigation rather than arbitration and to enforce equitable remedies such as injunctive relief. Issuing Bank agrees that an arbitration award by default may be entered upon it failing to appear or defend itself in any arbitration proceeding.

In the event of arbitration or litigation of this Letter of Credit between the Village and Issuing Bank and Applicant, the Issuing Bank and/or Applicant shall pay all expenses incurred by the Village in the said proceeding, including, but not limited to attorneys' fees, filing costs, witness fees, and other general expenses of the proceeding.

Partial draws are permitted under this Letter of Credit.

To the extent not inconsistent with the express terms hereof, this Letter of Credit is issued subject to the *International Standby Practices* ("ISP98"), as most recently published on the date of this Letter of Credit, by the International Chamber of Commerce, except that, as to matters not governed by ISP98, this Letter of Credit shall be governed by and construed in accordance with the laws of the State of Illinois, without giving effect to principles of conflicts of laws.

Please address all correspondence regarding this Letter of Credit to the attention of _____ (specify name of issuing bank contact or department name along with full address and phone number), mentioning our reference number as it appears above.

[signature block of issuer]



VILLAGE OF ALGONQUIN
COMMUNITY DEVELOPMENT DEPARTMENT

– M E M O R A N D U M –

DATE: January 23, 2018

TO: Committee of the Whole

FROM: Katie Parkhurst, AICP, Senior Planner

SUBJECT: *2018 Zoning Map Update*

Introduction

The Zoning Map has been updated to reflect the developments over the past year. Zoning of lots has been updated and special uses added. A revised map is attached for your review. Summarized below is a list of changes that have been made:

Added/Corrected:

- Added PUD and SU for 650 South Randall Road, Ortho Illinois.
- Added SU for 1300 Chase Street, outside storage for D'Land Construction.
- Added a SU for 1154 North Main Street, Medical Cannabis Dispensary.
- Annexed property on Harnish Drive, added lots zoned B-1PUD SU for Spectrum Senior Housing and R-1E PUD for and future residential.
- Removed SU at 1720 E. Algonquin for drive-through restaurant (this will now be O'Reilly's Auto Parts).
- Added a SU for 1600 East Algonquin Road for Kids Island Learning Center.
- Added SU for 1340 Ryan Parkway for Northwest Pulmonary and Sleep Clinic.
- Added a SU 1329 South Main Street (this is a map correction from 1986 for allowing a residential unit above a commercial office).

Recommendation

Staff recommends forwarding the 2018 Zoning Map to the Village Board for approval.



VILLAGE OF ALGONQUIN

McHENRY / KANE COUNTY, ILLINOIS

ZONING DISTRICTS 2018



ZONING DISTRICTS

R-1E ONE FAMILY DWELLING (18,000 sq.ft. min.)
R-1 ONE FAMILY DWELLING (10,000 sq.ft. min.)
R-1A ONE FAMILY DWELLING (14,000 sq.ft. min.)
R-2 ONE FAMILY DWELLING (8,700 sq.ft. min.)
R-3 TWO FAMILY DWELLING (10,000 sq.ft. min.)
R-4 MULTIPLE FAMILY DWELLING (3,600 sq.ft. min.)
R-5 MULTIPLE FAMILY DWELLING (2,400 sq.ft. min.)
B-1 BUSINESS, LIMITED RETAIL
B-2 BUSINESS, GENERAL RETAIL
I-1 INDUSTRIAL, LIMITED
I-2 INDUSTRIAL, GENERAL
O-1 OLD TOWN
B-P BUSINESS PARK
OR & D OFFICE RESEARCH AND DEVELOPMENT
SU SPECIAL USE
PUD SPECIAL USE, PLANNED UNIT DEVELOPMENT

* INDICATES NOT IN VILLAGE
OLD TOWN DISTRICT

REVISED: FEBRUARY 6, 2018

FEBRUARY 6, 2018

VILLAGE PRESIDENT

DATE

Disclaimer: This map is for reference purposes only. It is not intended to be used as a legal document. The Village of Algonquin is not responsible for any errors or omissions. The Village of Algonquin is not responsible for any damages or losses resulting from the use of this map. The Village of Algonquin is not responsible for any damages or losses resulting from the use of this map.

Map prepared by:
Village of Algonquin
4000 River St.
Algonquin, IL 60110
947.200.2700

Date Source: Village of Algonquin
Planning and Community Development



**VILLAGE OF ALGONQUIN
MEMORANDUM**

DATE: January 18, 2018

TO: Committee of the Whole

FROM: Tim Schloneger
Village Manager

SUBJECT: ***Proposed Capital Budget – 2018/2019
Water and Sewer Improvement and Construction Fund***

OVERVIEW

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

The revenue estimated for this fiscal year is \$1,740,000 (including a transfer of \$1,300,000 from the Water & Sewer Operating Fund), and expenditures are budgeted at \$5,987,000. The existing cash reserves of over \$7,000,000 will cover the difference between revenues and expenditures.

REVENUES - \$1,740,000

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 - \$5,987,000

ACCOUNT 42230 - LEGAL SERVICES - \$15,000 - This line item covers services required for legal matters associated with water and sewer improvement projects.

ACCOUNT 42232 - ENGINEERING - \$1,482,000 - 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:

- \$5,000 is provided for construction oversight services of the Distribution System Improvements 2016 project. Improvements include the Surrey Lane PRV (pressure reducing valve) and the Springhill Drive PRV.
- Monies are provided for construction oversight of the Downtown Algonquin Streetscape Watermain (\$28,000) and Sanitary Sewer (\$24,000). Construction will begin to consider full replacement of existing utilities, primarily water and sewer. In addition, consideration will be given to future demands and the need to upsize water main along Main Street to meet deficient fire flows. Likewise, consideration will be given to the sanitary sewer, to remove improved routing and sewer capacity to meet any development to our northern boundary, to potentially eliminate two existing lift stations, and to construct a temporary lift station at the southwestern corner of Cornish Park.
- \$60,000 is provided for Downtown Streetscape Stage 2 Water & Sewer design engineering services and an additional \$60,000 is being provided for construction oversight.
- \$200,000 is provided for Downtown Streetscape Stage 3 Water & Sewer Phase 2 engineering.

Proposed Budget 2018/2019

Water and Sewer Improvement and Construction Fund

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- \$120,000 is provided for an Elevated Storage Tank Evaluation. This year we will be 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.
- Huntington to Countryside Watermain Improvements (East) is pursuant to Phase 1 (\$60,000) & 2 (\$120,000) engineering for a portion of a 16-inch 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) is pursuant to Phase 1(\$60,000) & 2 (\$120,000) engineering for a portion of a 16-inch 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.
- \$70,000 is provided for construction oversight for the MCC (motor control center) upgrades at WTP #1 is a continuation of work. The construction involves replacement of an MCC and the addition of other necessary electrical components at WTP #1. Work includes electrical drawings to bring the new MCC up to current code, to incorporate VFD's (variable frequency drives) for the facility's high service pumps, and to provide integration with SCADA.
- \$100,000 is provided for PRV Replacement Program Stage 1 is pursuant to Phase 1 and Phase 2 engineering to evaluate and replace PRV's. Replacement was defined in the Water System Master Plan.
- \$20,000 is provided for Randall Road Widening Watermain Relocation provides for engineering design 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 intergovernmental agreement with McHenry County Division of Transportation.
- Sewer System Project Plan is documentation required by IEPA if the Village is to pursue a low interest loan from the Agency. It is anticipated that a low interest loan application will be applied for to cover constructions costs for projects/improvements identified through completion of the Solids Stabilization Study and Phosphorous Removal Study, and those related to the Downtown Streetscape. \$370,000 is provided for Phase I Engineering, and \$60,000 is provided for State Revolving Loan Fund administration for Water & Sewer.

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Water and Sewer Improvement and Construction Fund

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- \$25,000 is provided for improvements to High Service Pumps (HSP) at WTP no. 2 and no. 3. Scope 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 43348 – METERS AND SUPPLIES - \$1,850,000

Monies are provided in this line item to purchase and install the first full year of commercial/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 focus on residential customers for one half of the Village (based on geography). Year 3 will complete the project by replacing the remainder of the meters in the Village, plus any sites missed during the first two years.

ACCOUNT 44416 – COLLECTION SYSTEM MAINTENANCE - \$260,000

- \$70,000 is provided for SL-RAT or Sewer Line Rapid Assessment Tool, which is a quick preliminary assessment tool used to prioritize problems areas in the collection system, used as a precursor to sewer line televising. The technology uses sound, creating an acoustic profile based on algorithmic calculations that can reveal defects such as tree roots, grease, breakage and infiltration.
- \$90,000 is provided for camera inspections that utilize a 360-degree digital scanning of manhole structures producing four (4) deliverable outputs; a 360-degree perspective of the structure, and unfolded view of the structure, and a geometric view suitable for submitting to engineers and CAD applications.
- \$100,000 is provided for sanitary sewer rehabilitation. 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.

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Water and Sewer Improvement and Construction Fund
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ACCOUNT 45520 – WATER TREATMENT PLANT - \$1,150,000

- \$850,000 is provided for MCC (motor control center) upgrades at WTP #1, which is a continuation of work originally to be completed in the prior fiscal year. The construction involves replacement of an MCC and the addition of other necessary electrical components at WTP #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.
- \$300,000 is provided to fund improvements in the operation of the High Service Pumps at Water Treatment Plant #2 and #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 - \$490,000

- \$240,000 is provided for construction of the Downtown Algonquin Streetscape Stage 1A Sanitary Sewer. Construction will begin to consider full replacement of existing utilities, primarily water and sewer. Likewise, consideration will be paid to the sanitary sewer, to remove improved routing and sewer capacity to meet any development to our northern boundary, to potentially eliminate two existing lift stations, and to construct a temporary lift station at the southwestern corner of Cornish Park.
- \$250,000 is provided in this line item to construct sanitary sewer improvements, known as Stage 1B, to move sewage from the areas on Main Street, north of Crystal Creek to Front Street and over to Harrison Street, where flows will then move south toward the WWTF. The exact routing of the sanitary sewer has not yet been determined due to easement conflicts and potential land transactions that have not occurred to date.

ACCOUNT 45565 – WATER MAIN - \$740,000

- \$10,000 is provided for the 2016 Distribution System Improvements, which is an aggregate of several improvement projects, including the replacement of a PRV at Springhill Drive, the rehabilitation of a PRV at Surrey Lane, the addition of inverter duty motors and VFD's at the Countryside and Hillside BPS. The goal of the improvements is

Proposed Budget 2018/2019

Water and Sewer Improvement and Construction Fund

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to increase system flexibility by allowing water to be moved between pressure zones more effectively, providing for more reliable water pressure during periods of emergency and/or maintenance, such as painting the Copper Oaks EWST.

- \$280,000 is provided for construction of the Downtown Algonquin Streetscape Stage 1 Watermain. Construction will begin to consider full replacement of existing utilities, primarily water and sewer. In addition, consideration will be given to future demands and the need to upsize water main along Main Street to meet deficient fire flows.
- \$200,000 is provided in this line item to construct water main improvements, known as Stage 1B, to move potable water from the new 16-inch water main in Towne Park to the intersection of Algonquin Road and Harrison Street, where it will connect hydraulically to the 12-inch water main that hangs from the Algonquin Road Bridge. The exact routing of the water main has not yet been determined due to easement conflicts and potential land transactions that have not occurred to date.
- \$250,000 is provided for the Village's participation in Longmeadow Parkway construction for water main.

SUMMARY OF WATER AND SEWER CAPITAL IMPROVEMENT BUDGET

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

Attachment

Water and Sewer Improvement and Construction Fund

Revenues

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Budget	FY 17/18 Q2	FY 18/19 Budget
12000400	33055	Donations - Capital W&S	\$ 137,660.27	\$ -	\$ -	\$ -	\$ -	\$ -
12000400	34800	Water Tap-On Fees	186,359.00	628,910.00	271,272.40	200,000.00	138,180.00	200,000.00
12000400	34810	Sewer Tap-On Fees	175,413.00	548,686.00	234,292.20	190,000.00	123,124.00	190,000.00
12000500	36001	Interest	69,194.47	100.82	197.15	200.00	110.48	-
12000500	36020	Interest - Investment Pools	15,395.81	13,555.81	34,783.11	9,800.00	32,794.34	50,000.00
12000500	38007	Transfer from W&S Operating	-	-	-	1,200,000.00	-	1,300,000.00
Water & Sewer Imp. & Const. Fund Total			\$ 584,022.55	\$ 1,191,252.63	\$ 540,544.86	\$ 1,600,000.00	\$ 294,208.82	\$ 1,740,000.00

Water and Sewer Improvement and Construction Fund

Expenses

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Q2	FY 17/18 Budget	FY 18/19 Dept.	FY 18/19 Manager	FY 18/19 Budget
Nondepartmental										
12900400	42230	Legal Services	\$ 4,950.00	\$ 1,331.25	\$ 2,143.75	\$ -	\$ 20,000.00	\$ 15,000.00	\$ 15,000.00	\$ -
12900400	42232	Engineering Services	189,227.12	32,534.10	19,362.22	78,162.76	1,987,000.00	1,482,000.00	1,482,000.00	-
12900400	43348	Meters & Meter Supplies	-	-	-	-	-	-	1,850,000.00	-
12900400	43370	Infrastructure Maintenance	466,672.84	154,988.35	101,996.25	-	965,000.00	2,110,000.00	-	-
12900400	44416	Collection System Maintenance	-	-	-	-	-	-	260,000.00	-
Subtotal			\$ 660,849.96	\$ 188,853.70	\$ 123,502.22	\$ 78,162.76	\$ 2,972,000.00	\$ 3,607,000.00	\$ 3,607,000.00	\$ -
Capital Expenditures										
12900400	45520	Water Treatment Plant	\$ -	\$ -	\$ -	\$ -	\$ 850,000.00	\$ 1,150,000.00	\$ 1,150,000.00	\$ -
12900400	45526	Wastewater Collection	-	-	-	-	1,300,000.00	490,000.00	490,000.00	-
12900400	45565	Water Main	830.07	-	-	155,743.88	1,500,000.00	740,000.00	740,000.00	-
12900400	45570	Wastewater Treatment Facility	-	78,448.07	34,316.00	-	-	-	-	-
Subtotal			\$ 830.07	\$ 78,448.07	\$ 34,316.00	\$ 155,743.88	\$ 3,650,000.00	\$ 2,380,000.00	\$ 2,380,000.00	\$ -
Water & Sewer Imp. & Const. Fund Total			\$ 661,680.03	\$ 267,301.77	\$ 157,818.22	\$ 233,906.64	\$ 6,622,000.00	\$ 5,987,000.00	\$ 5,987,000.00	\$ -
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 18, 2018

TO: Committee of the Whole

FROM: Tim Schloneger
Village Manager

SUBJECT: Proposed Capital Budgets – 2018/2019 - MFT and Street Improvement Funds

OVERVIEW

Attached are the proposed fiscal year 2018/2019 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 \$10,024,000. The projected revenue for the two funds total \$6,800,000, and the proposed engineering, road construction and maintenance expenditures total \$16,824,000.

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

To update the CIP, 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.

Proposed Budgets – 2018/2019
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 2018/2019 reflects the third year of the improvement efforts.

MFT FUND REVENUES - \$820,000

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 - \$1,269,000

ACCOUNT 42232 - ENGINEERING/DESIGN - \$10,000

Sleepy Hollow Road is a 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. Funds are provided in this line item to finish out the phase 2 engineering design. Construction of this project will be budgeted in the Street Improvement Fund in an out year.

ACCOUNT 43309 - MATERIALS - \$454,000

- \$300,000 is provided for Road Salt to be 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.
- \$24,0000 is provided for new wave deicers and brines that are applied to road salt to increase its effectiveness as an ice melting product in severely cold conditions.
- \$130,000 is provided to purchase asphalt material so our in-house crews can patch failing sections of pavement.

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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 including bike path repair which will remove and replace 3,200 square feet of asphalt.

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

This line item covers contracted services for concrete work in Village right-of-ways. This year's costs are for removal and replacement of 2,300 square feet of concrete sidewalks.

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

This line item includes contracted services for street sweeping (10 cycles) and pavement marking and striping throughout the year.

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

This line item includes contracted services for a street light maintenance.

ACCOUNT 44431 – MAINTENANCE – STORM SEWER - \$50,000

Funds are provided in this line item to pay a contracted service to do storm sewer cleaning as required by the MS4 Regulations. 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 timeframe. Removing solids from the storm sewer system prevents these materials from being deposited in the Fox River.

ACCOUNT 45593 – CAPITAL IMPROVEMENTS – \$70,000

Money is budgeted 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 - \$5,980,000

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 \$600,000 inter-fund transfer from the General Fund.

STREET IMPROVEMENT FUND EXPENDITURES - \$15,555,000

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 - \$1,985,000 - 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 - \$25,000 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 - \$150,000 is provided for these two projects which were also selected by the IMS program and involved 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 ADA regulations.
- Broadsmore & Stonegate Roads - \$50,000 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.
- Crystal Creek Western Bypass Corrections total \$50,000, closing the project out with some assistance from the state.
- Gaslight Drive - \$80,000 is provided in this line item to pay for construction oversight 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 Gaslight South and Gaslight West Subdivisions will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Gaslight Drive, Kingston Place, and a small section of Spring Hill Drive, from Gaslight to the intersection of Hanson Road and County Line Road.

- Harnish Drive - \$100,000 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 on Harnish Drive will involve curb and driveway patching, minor drainage system repairs and pavement patching, repair, or reconstruction, as necessary. 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. This design will be made shovel-ready and will be submitted to the McHenry County Council of Mayors at the next "Call for Projects" for inclusion in the Transportation Improvement Program and federal Surface Transportation Program(STP) funding. Scheduling for construction is dependent on positioning in the STP and contingent on available funding.
- Harper Drive - \$5,000 is provided in this line item to pay for Full Depth Reclamation reporting on this completed project. Reporting will be performed by the Village Engineer to meet the requirements of IDOT for this process that has not been fully vetted and approved for use in the State of Illinois' Standard Specifications for Roadway Construction.
- High Hill Subdivision - \$150,000 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 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.
- The design of the Lake Braewood 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. \$250,000 is provided to begin engineering which will involve stabilizing the upstream and

downstream portions of the creek that tie into the Lake, restoring the shoreline of the Lake (both these will help sediment loading in the Lake), and moving and constructing a new outlet structure.

- Lake Drive South - \$60,000 is provided 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 North, including the adjacent cul-de-sacs of Lake Drive Court and Falcon Ridge Court.
- \$50,000 is provided to finish the design for the Randall Road Pedestrian Underpass. This is now being built as part of the Randall Road Widening Project.
- Randall Road/Ratt Creek Wetland Complex - The Village is proposing to use \$100,000 in local funds for the Phase 2 design and construction of the Ratt Creek Wetland Complex Enhancement 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 – Proposed funding to clean up and restore this reach of Ratt Creek and the High Hill Dam detention area. This creek is 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 for potential restoration and is therefore eligible to receive IEPA 319 Water Quality Grant Funding. \$70,000 has been budgeted to provide a concept and prepare the grant application for submittal to the IEPA.
- Scott, Souwanas & Schuett - \$200,000 is provided to perform 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 Water & Sewer Fund), storm sewer repair, installation of new sidewalk on the north side of Souwanas, replacement of the failed box culvert on Souwanas, and repairs to the riparian corridor

upstream of the box culvert adjacent to WTP #1. Project will also include installation of new trees to replace those trees that are in failed condition. 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.

- Souwanas Creek Reach 2 - \$50,000 is provided to contract a consultant to do Phase 1 engineering services 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.
- Stonegate Road - \$80,000 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.
- \$15,000 is provided to finish phase 2 engineering for Terrace Hill. The project will involve the rehabilitation of 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 1B - \$500,000 for construction is provided here as a placeholder to cover any engineering that may occur in Stage 1B on N. Main Street from Route 62 to N. Main and the Bypass. Construction may include new storm sewers, concrete streets, brick intersections and parking areas, paver sidewalks, roundabout at Main and Cary-Algonquin Road, lighting and landscape enhancements.

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ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE- \$4,480,000 – The anticipated projects include the following:

- Boyer and County Line Roads - \$2,200,000 is provided for these two projects that were 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.
- \$90,000 for brick paver maintenance is provided in to repair failed brick pavers on Bunker Hill and Whitehall Drive in Manchester Lakes Subdivision.
- Copper Oaks Drainage - \$5,000 is provided in this line item to complete the work on Cumberland Parkway to correct the fact that multiple restrictors were removed inadvertently during the construction of the Copper Oaks roadway rehabilitation project. This project involves work between 2 manholes east of the Cumberland Parkway fire station in the easement. A restrictor and overflow system will be constructed to prevent downstream flooding south of Algonquin Road and east of Sandbloom Road to the Fox River.
- Gaslight Drive - \$1,300,000 is provided to pay for construction 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 Gaslight South and Gaslight West Subdivisions will involve curb and driveway patching, minor drainage system repairs and pavement patching and repair, as necessary. The work will involve improvements to Gaslight Drive, Kingston Place, and a small section of Spring Hill Drive, from Gaslight to the intersection of Hanson Road and County Line Road.
- Highland Avenue Detention Maintenance - \$20,000 is provided to perform maintenance on the newly installed natural detentions contiguous to the new roadway on Highland Avenue. These detentions were installed as part of the roadway reconstruction performed this past construction season, and will require minimum three-year maintenance to be successful.
- Lake Drive South - \$750,000 is provided 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 Court.

- Reclamite Treatment. \$70,000 is provided for the Reclamite product which is applied to all our roads within a year after they are constructed. It is an asphalt rejuvenator that helps to extend the life of asphalt pavement.
- \$10,000 is provided in this line-item for maintenance of the Souwanas creek restoration project that was completed 3 years ago. Maintenance will involve several selective herbicide treatments as well as a prescribed burn.
- \$25,000 has been provided to follow up on the native plantings of the Surrey Lane Creek & Drainage Repair stream bank stabilization project and provide any needed maintenances for the Village to ensure the maximum chance for survival and establishment of this native stream bank restoration.
- \$10,000 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.

ACCOUNT 45593 – CAPITAL IMPROVEMENTS - \$9,080,000 – the anticipated projects include the following:

- Downtown Streetscape Stage 1A - \$6,300,000 is provided for the Downtown Streetscape project, which is being delivered using the design-build method. Burke LLC has been hired to handle all aspects of construction including burial of overhead utilities, replacement of water and sanitary sewer lines (covered under the budget for Water and Sewer Improvement), new storm sewers, concrete streets, brick intersections and parking areas, paver sidewalks, site furnishing and pedestrian gathering areas, way-finding signage, street lighting, landscape enhancements, Plaza area, Mineral Springs enhancements, and other amenities. Stage 1A includes burial of electric, cable TV, and phone lines from S. Main and the Bypass to N. Main and Edwards Street, and all other work described previously from S. Main and the Bypass to the Crystal Creek Bridge.

- Crystal Creek Bridge Replacement & Enhancements - The Main Street Bridge over Crystal Creek is being replaced 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 Village's 20% match is reflected here at \$360,000, but will most likely not be paid out this fiscal year. 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.
- \$370,000 is provided for Crystal Creek Western Bypass corrections.
- \$1,000,000 is budgeted here to finish Highland Avenue project. This is the amount we are still waiting to be billed from IDOT.
- Longmeadow Parkway - \$50,000 is provided in this line item to pay off final moneys to Kane County for any local improvement in the Longmeadow Parkway corridor that were specifically requested by the Village of Algonquin. These items include form liner textured surface, graffiti resistant coating, external chimney seals and a small amount of pavement on Sleep Hollow Road to adjust alignment with Longmeadow Parkway intersection.
- \$1,000,000 is provided to construct the Randall Road Pedestrian Underpass. This is now being built as part of the Randall Road Widening Project and this is our portion of the cost.

SUMMARY OF CAPITAL MFT AND STREET IMPROVEMENT BUDGETS

By implementation of the MFT and Street Improvement 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

Revenues

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Budget	FY 17/18 Q2	FY 18/19 Budget
03000300	33015	MFT Allotments	\$ 774,190.96	\$ 806,435.11	\$ 761,560.71	\$ 773,000.00	\$ 378,489.19	\$ 773,000.00
03000300	33016	Capital Program Allotment	264,748.00		-	-	-	-
03000300	33017	High Growth Allotment	-	-	37,932.00	37,000.00	18,644.00	37,000.00
03000300	33052	Donations - Capital	63,662.84	2,958.79	50,339.97	-	-	-
03000500	36020	Interest - Investment Pools	328.87	2,748.35	10,765.36	3,000.00	11,156.14	10,000.00
Motor Fuel Tax Fund Total			\$ 1,102,930.67	\$ 812,142.25	\$ 860,598.04	\$ 813,000.00	\$ 408,289.33	\$ 820,000.00

Motor Fuel Tax Fund

Expenditures

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Q2	FY 17/18 Budget	FY 18/19 Dept.	FY 18/19 Manager	FY 18/19 Budget
03900300	42232	Engineering/Design Services	\$ 146,518.97	\$ 168,148.95	\$ 189,368.80	\$ 1,878.26	\$ -	\$ 10,000.00	\$ 10,000.00	\$ -
03900300	43309	Materials	582,767.61	302,751.91	288,803.23	166,834.70	482,500.00	454,000.00	454,000.00	-
03900300	43370	Infrastructure Maintenance	211,239.37	-	787,635.98	54,179.81	225,000.00	735,000.00	120,000.00	-
03900300	44427	Maintenance - Curb/Sidewalk	-	-	-	-	-	-	240,000.00	-
03900300	44428	Maintenance - Streets	-	-	-	-	-	-	140,000.00	-
03900300	44429	Maintenance - Street Lights	-	-	-	-	-	-	185,000.00	-
03900300	44431	Maintenance - Storm Sewer	-	-	-	-	-	-	50,000.00	-
03900300	45593	Capital Improvements	-	57,924.33	133,984.80	-	70,000.00	70,000.00	70,000.00	-
Motor Fuel Tax Fund Total			\$ 940,525.95	\$ 528,825.19	\$ 1,399,792.81	\$ 222,892.77	\$ 777,500.00	\$ 1,269,000.00	\$ 1,269,000.00	\$ -

Street Improvement Fund

Revenues

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Budget	FY 17/18 Q2	FY 18/19 Budget
04000500	31011	Home Rule Sales Tax	\$ 4,007,438.92	\$ 4,120,849.21	\$ 4,227,204.96	\$ 4,220,000.00	\$ 2,019,354.52	\$ 4,150,000.00
04000500	31190	Telecommunications Tax	398,555.00	339,046.89	318,838.18	325,000.00	148,291.54	280,000.00
04000500	31495	Utility Tax Receipts	951,723.06	899,377.48	923,668.17	925,000.00	426,151.47	900,000.00
04000500	33012	Intergovernmental Agreement	466,672.84	-	18,103.35	-	-	-
04000300	33032	Donations - Operating - PW	-	-	-	-	273.13	-
04000300	33052	Donations - Capital - PW	209,622.20	(15,000.00)	2,327.47	-	-	-
04000300	33252	Grants - Capital - PW	-	-	302,294.10	-	49,796.10	-
04000500	36001	Interest	66.02	118.92	476.30	200.00	282.77	-
04000500	36020	Interest -Investment Pools	11,203.50	16,438.10	41,413.84	9,800.00	37,480.74	50,000.00
04000500	38001	Transfer from General Fund	-	-	1,000,000.00	-	-	600,000.00
04000500	38016	Transfer - Special Reveune Fund	-	-	299,800.58	-	-	-
Street Improvement Fund Total			\$ 6,045,281.54	\$ 5,360,830.60	\$ 7,134,126.95	\$ 5,480,000.00	\$ 2,681,630.27	\$ 5,980,000.00
<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 \$.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 18/19 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 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Q2	FY 17/18 Budget	FY 18/19 Dept.	FY 18/19 Manager	FY 18/19 Budget
04900300 42230	Legal Services	\$ 9,252.50	\$ 6,917.50	\$ 12,251.75	\$ 783.75	\$ 25,000.00	\$ 10,000.00	\$ 10,000.00	\$ -
04900300 42232	Engineering/Design Services	775,273.08	861,375.82	1,368,982.80	346,277.64	2,161,000.00	1,485,000.00	1,985,000.00	-
04900300 43370	Infrastructure Maintenance	1,790,162.73	398,480.14	3,147,975.38	1,421,522.86	2,359,000.00	4,480,000.00	4,480,000.00	-
04900300 45593	Capital Improvements	2,406,762.36	1,166,126.88	2,475,645.51	1,079,016.78	4,961,000.00	11,580,000.00	9,080,000.00	-
04900300 45595	Land Acquisition	-	-	94,628.00	247,903.28	-	-	-	-
Street Improvement Fund Total		\$ 4,981,450.67	\$ 2,432,900.34	\$ 7,099,483.44	\$ 3,095,504.31	\$ 9,506,000.00	\$ 17,555,000.00	\$ 15,555,000.00	\$ -



**VILLAGE OF ALGONQUIN
MEMORANDUM**

DATE: *January 18, 2018*

TO: *Committee of the Whole*

FROM: *Tim Schloneger
Village Manager*

SUBJECT: *Proposed Capital Budget – 2018/2019 – Park Fund (Capital)*

OVERVIEW

The Park Fund (Capital) 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 slowdown in new construction, the revenue generated from park impact fees has lessened and become 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 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.

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PARK FUND REVENUES - \$763,100

Revenues include \$3,100 in interest income, \$120,000 in video gaming terminal tax receipts, \$240,000 from the dedicated proportion of the telecommunications tax, and a \$400,000 inter-fund transfer from the General Fund.

PARK FUND EXPENDITURES - \$1,343,000

ACCOUNT 42232 – ENGINEERING AND DESIGN - \$206,000

- \$3,000 for Algonquin Lakes Basketball Court Rehabilitation. This line-item will provide construction management for the entire rebuilding of this court including asphalt, court acrylic paint, and resetting some benches.
- \$25,000 for Dixie Park Creek & Drainage Improvements. Construction management services are provided to naturalize the parcel that the Village acquired as part of the Creek Crossing foreclosure. This area will be planted with native prairie, the riparian corridor will be enhanced, the detention basins that were to serve the build out of the subdivision will be filled, and a bike path connection will be made through this park.
- \$20,000 for Kelliher Park Parking Lot. Engineering cost are included for the parking lot expansion project. This much needed project will eliminate safety issues related to not having enough spaces at this facility.
- \$8,000 for Stoneybrook Park Improvements. Costs are reflected here to provide engineering improvements for a park rehabilitation project. This is one of the only facilities that has not been improved in the last 20 years. We hope to provide a better neighborhood park with better, and more variety of, attributes.
- \$100,000 for Willoughby Farms Park Improvements. Funds will pay 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.
- \$50,000 for Woods Creek Reach 4. Funds are provided for engineering 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.

ACCOUNT 43370 – INFRASTRUCTURE MAINTENANCE - \$83,000

- \$30,000 for Algonquin Lakes Basketball Court Rehab. These funds are allocated for rebuilding of this court including asphalt, court acrylic paint, and resetting some benches.
- \$13,000 is provided for maintenance of the Spella Pollinator Project.
- \$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.

ACCOUNT 44402 – REFORESTATION - \$130,000

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. This work will include the purchase of the tree itself and contractual labor for installation.

ACCOUNT 44408 – WETLAND MITIGATION - \$12,000

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

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ACCOUNT 44425 – MAINTENANCE – OPEN SPACE - \$12,000

- The Spella Park detention basin was an unsuccessful attempt at naturalization when the park was constructed. \$4,000 has been provided for maintenance of the area to include spot herbiciding and mowing and a burn.
- 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. \$8,000 is provided here to burn naturalized areas of the Village on a rotating basis every 3-5 years. This year we are proposing to burn Grand Reserve Prairie, Lake Drive South Detention, and Oak Creek Detention.

ACCOUNT 45593 – PARK DEVELOPMENT - \$900,000

Dixie Park Creek & Drainage Improvements. Funding is provided to naturalize the parcel that the Village acquired as part of the Creek Crossing foreclosure. This area will be planted with native prairie, the riparian corridor will be enhanced, the detention basins that were to serve the build out of the subdivision will be filled, and a bike path connection will be made through this park.

Attachment

Park Improvement Fund

Revenues

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Budget	FY 17/18 Q2	FY 18/19 Budget
06000500	31175	Video Gaming Terminal Tax	\$ 60,122.07	\$ 96,068.43	\$ 115,786.73	\$ 108,000.00	\$ 62,111.01	\$ 120,000.00
06000500	31190	Telecommunications Tax	-	260,678.87	269,241.12	270,000.00	125,223.96	240,000.00
06000300	33052	Donation - Capital - PW	-	329,175.00	12,212.58	-	9,130.00	-
06000300	33150	Donation - Ecosystem Maint.	5,662.00	-	-	-	-	-
06000300	33152	Donation - Reforestation	150.00	47,100.00	3,500.00	-	7,400.00	-
06000300	33153	Donation - Watershed	-	4,539.17	7,849.20	-	4,644.36	-
06000300	33155	Donation - Wetland Mitigation	-	38,567.26	-	-	-	-
06000300	33232	Grants - Operating - PW	-	-	-	-	10,000.00	-
06000500	36001	Interest	79.62	133.26	122.35	2,000.00	73.98	100.00
06000500	36020	Interest - Investment Pools	-	494.70	2,247.92	-	2,301.71	3,000.00
06000500	38001	Transfer - General Fund	-	-	-	-	-	400,000.00
Park Fund Total			\$ 66,013.69	\$ 776,756.69	\$ 410,959.90	\$ 380,000.00	\$ 220,885.02	\$ 763,100.00

Park Improvement Fund

Expenditures

			FY 14/15 Actual	FY 15/16 Actual	FY 16/17 Actual	FY 17/18 Q2	FY 17/18 Budget	FY 18/19 Dept.	FY 18/19 Manager	FY 18/19 Budget
06900300	42232	Engineering Services	\$ 3,326.40	\$ -	\$ 47,290.59	\$ -	\$ 95,000.00	\$ 206,000.00	\$ 206,000.00	\$ -
06900300	43370	Infrastructure Maintenance	-	-	-	13,455.00	35,000.00	83,000.00	83,000.00	-
06900300	44402	Reforestation ¹	-	-	28,890.00	-	11,000.00	130,000.00	130,000.00	-
06900300	44408	Wetland Mitigation ¹	7,616.99	17,197.74	7,245.00	5,247.20	6,000.00	12,000.00	12,000.00	-
06900300	44425	Maintenance-Open Space ¹	21,607.60	20,800.00	49,275.00	6,936.75	26,000.00	12,000.00	12,000.00	-
06900300	45593	Capital Improvements	-	30,308.40	472,324.13	78,436.86	100,000.00	900,000.00	900,000.00	-
06900300	45595	Land Acquisition	-	-	-	-	-	-	-	-
Parks Fund Total			\$ 32,550.99	\$ 68,306.14	\$ 605,024.72	\$ 104,075.81	\$ 273,000.00	\$ 1,343,000.00	\$ 1,343,000.00	\$ -
¹ - Restricted Funds										



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: January 4, 2018

TO: Bob Mitchard, Public Works Director

FROM: Steven R. Ludwig, General Services Superintendent

SUBJECT: Intergovernmental Agreement – Algonquin Township

As you are aware, we have historically maintained several intergovernmental agreements with Algonquin Township as it relates to various roadways and services. Over the last several years, many of those have expired. I have recently drafted a new agreement (which combines all of our historically relevant teamwork in to one document) and worked with the Algonquin Township Road District to meet the needs of both entities.

Both the township and the Village, as well as their respective legal representatives, have reviewed this document. The agreement is mutually beneficial and is proposed and recommended by both entities. The document is now ready for Village Board approval. Please let me know if you have any questions.

**INTERGOVERNMENTAL AGREEMENT
BETWEEN THE ALGONQUIN TOWNSHIP ROAD DISTRICT
AND THE VILLAGE OF ALGONQUIN
FOR THE MAINTENANCE OF CARDINAL DRIVE, SOUTH DRIVE, KLASEN ROAD,
KINGSTON PLACE, DEVONSHIRE ROAD, BRIGHTON LANE, DENNIS AVENUE, ROGER
STREET, AND NEVIN AVENUE (PER INCLUDED MAPS) AND FOR ROADSIDE BRUSH
CLEARANCE AND MATERIAL HAULING**

THIS AGREEMENT made and entered into this ____ day of _____ 2017, by and between the Algonquin Township Road District ("Road District"), a unit of local government and the Village of Algonquin ("Village"), a home rule municipal corporation.

WHEREAS, the Road District desires to obtain services of the Village for the purpose of providing snow and ice control for the portion of Cardinal Drive, South Drive, Kingston Place, Devonshire Road, Brighton Lane, Dennis Avenue, Roger Street, and Nevin Avenue, under Road District jurisdiction adjacent to the Village; and

WHEREAS, the Village desires to provide snow and ice control for the portion of Cardinal Drive, South Drive, Kingston Place, Devonshire Road, Brighton Lane, Dennis Avenue, Roger Street, and Nevin Avenue, under Road District jurisdiction; and

WHEREAS, the Village desires to obtain services of the Road District for the purpose of providing snow and ice control for the portion of Klasen Road under the jurisdiction of the Village, and annual roadside brush clearance on roadways under the jurisdiction of the Village, and material hauling services to the jurisdiction of the Village; and

WHEREAS, the Road District desires to provide snow and ice control for the portion of Klasen Road under the jurisdiction of the Village, provide annual roadside brush clearance on roadways under the jurisdiction of the Village, and material hauling services to the jurisdiction of the Village; and

WHEREAS, the Road District and the Village are authorized by the terms and provisions of 5 ILCS 220/1 *et seq.*, to enter in to intergovernmental agreements, ventures, and undertakings to perform jointly any governmental purposes or undertaking either of them could do singularly.

NOW THEREFORE, in consideration for mutual promises and undertaking exchanged in the Agreement and other good and valuable consideration, the receipt and sufficiency of which are acknowledged, the parties agree as follows:

1. **Maintenance of Cardinal Drive, South Drive, Kingston Place, Devonshire Road, Brighton Lane, Dennis Avenue, Roger Street, and Nevin Avenue.** The Village shall perform all acts reasonably necessary, in its sole discretion, to provide snow and ice control for the portions of Cardinal Drive, South Drive, Kingston Place, Devonshire Road, Brighton Lane, Dennis Avenue, Roger Street, and Nevin Avenue under Road District jurisdiction in accordance with the standards of other roads under the Road District's jurisdiction. All such acts should be at the Village's expense up to, and including, thirty (30) seasonal snow and ice control events.

2. **Maintenance of Klasen Road.** The Road District shall perform all acts reasonably necessary, in its sole discretion, to provide snow and ice control for the portions of Klasen Road, under Village jurisdiction in accordance with the standards of other roads under the Village's jurisdiction. All such acts should be at the Road District's expense up to, and including, thirty (30) seasonal snow and ice control events.
3. **Roadside Brush Clearance and Material Hauling.** The Road District shall provide roadside brush clearance services for a period of sixty (60) brush clearance hours along roadways (locations as determined annually), under Village jurisdiction. Additionally, should there not be sufficient brush clearance work required, the Village may accept, at its discretion, material hauling services in lieu of brush clearance work. Brush clearance or material hauling services shall be provided after each snow season. This work shall be performed each year between May 1st, and completed prior to November 30th.
4. **Extended Annual Service Criteria.** Should the exchange of services noted above exceed that stated thirty (30) events, the Road District and the Village may mutually agree to continue with service exchange, provided the Road District compensates the Village for the off-setting costs of service. This cost shall be mutually agreed to by the Road District Highway Commissioner and the Village Public Works Director. Either entity, at any point, has the option to deny services beyond the agreement terms noted above.
5. **INDEMNIFICATION.** The Village shall defend, indemnify and hold harmless the Road District and any of its officers, officials, employees, or agents from any and all claims, demands, liability, loss, damages, fines, penalties, attorney's fees and litigation expenses arising out of injury to, including the death of, persons and/or damage to property, to the extent caused by the negligent acts or omissions of Village or any of its officers, officials, employees, contractors or agents related to work performed under this Intergovernmental Agreement. The Road District shall defend, indemnify and hold harmless the Village and any of its officers, officials, employees, or agents from any and all claims, demands, liability, loss, damages, fines, penalties, attorney's fees and litigation expenses arising out of injury to, including the death of, persons and/or damage to property, to the extent caused by the negligent acts or omissions of the Road District or any of its officers, officials, employees, contractors or agents related to work performed under this Intergovernmental Agreement.

Nothing in this indemnification language is intended to constitute a waiver of any defenses available to the Parties, including those of the Illinois Tort Immunity Act.

Notwithstanding the above indemnification provisions, each party to this Agreement assumes the risk of, including full legal and financial responsibility for, injury, disability or death of its own employees, contractors and agents and for any liability for damage to its own property or equipment arising from its own actions or omissions or the actions or omissions of its employees, contractors and agents at all times, and waives all such claims against the other party.

6. **Term.** The term of this agreement shall be for a period ending May 31, 2021.
7. **Termination.** Either party may, with or without cause, terminate this Agreement upon not less than thirty (30) days written notice delivered by certified mail or in person to the other parties.

8. **Governing Law.** The parties agree that because this Agreement is to be performed in Illinois, the State of Illinois shall govern their relation in the interpretation of this Agreement, further jurisdiction and venue for the enforcement of this agreement shall be in McHenry County.
9. **No Discrimination.** No person shall be excluded from employment rights, participation and/or be denied the benefits of, the program, which is subject of this Agreement, on the basis of any form of unlawful discrimination based on factors such as sex (including discrimination based on pregnancy, childbirth, or related medical conditions), race, color, creed, religion, ancestry, national origin, age, mental or physical disability, sex, marital status, veteran status, sexual orientation including gender-related identity, whether or not traditionally associated with the person's designated sex at birth, or any other basis prohibited by applicable federal, state, or local fair employment laws or regulations.
10. **Severability.** If any paragraph, section, subdivision, sentence, clause, or phrase of this Agreement is for any reason held to be contrary to law or contrary to any rule or regulation having the force and effect of law, such decision shall not affect the remaining portion of the Agreement. However, upon the occurrence of such event, either party may terminate the Agreement forthwith, upon the delivery of written notice of termination of the other party.
11. **Notices.** All notices permitted regarding this Agreement shall be transmitted only by personal delivery or by First Class, Certified, or Registered United States mail to the following persons at the addresses stated:

To the Village: Tim Schloneger, Village Manager
Ganek Municipal Complex
2200 Harnish Dr.
Algonquin, IL. 60102

Village President
Ganek Municipal Complex
2200 Harnish Dr.
Algonquin, IL. 60102

To the Township: Andrew Gasser, Highway Commissioner
Algonquin Township Road District
3702 U.S. Highway 14
Crystal Lake, IL. 60014

It is understood and agreed that the entire agreement of the parties is contained herein and that this Agreement supersedes all oral agreements in negotiations between the parties relating to the subject matter hereof. Any alterations, amendments, deletions or waivers of the provisions of the Agreement shall be valid only when expressed in writing and duly signed by the parties.

IN WITNESS WHEREOF, the parties have executed this Agreement of the day and year first above written.

ALGONQUIN TOWNSHIP ROAD DISTRICT

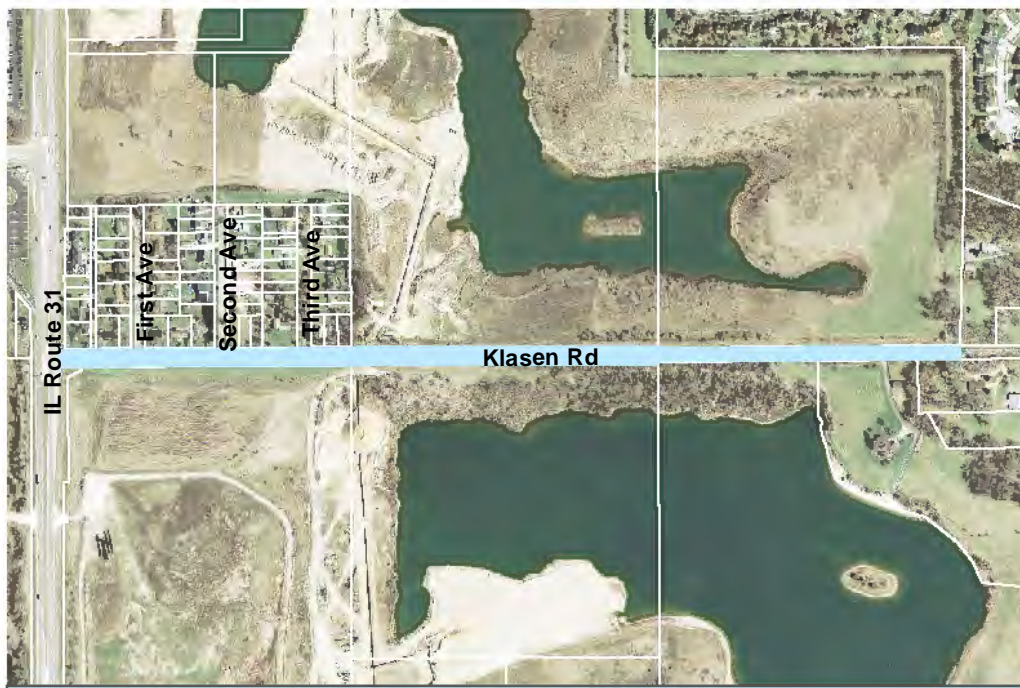
By: _____
Highway Commissioner, Andrew Gasser

Attest: _____
Algonquin Township Clerk, Karen Lukasik

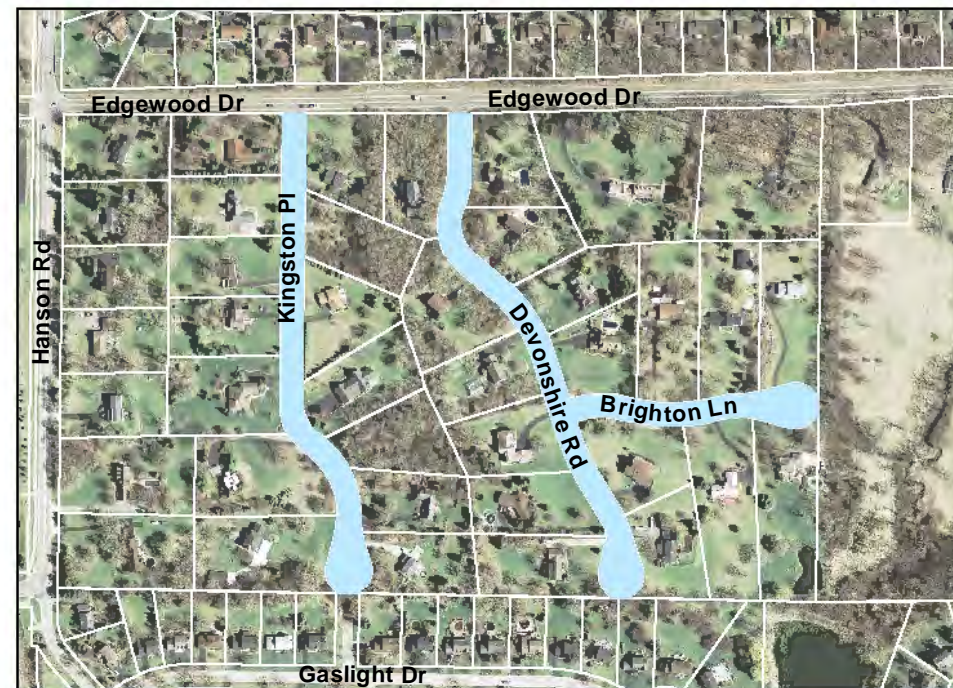
VILLAGE OF ALGONQUIN

By: _____
Village President, John Schmitt

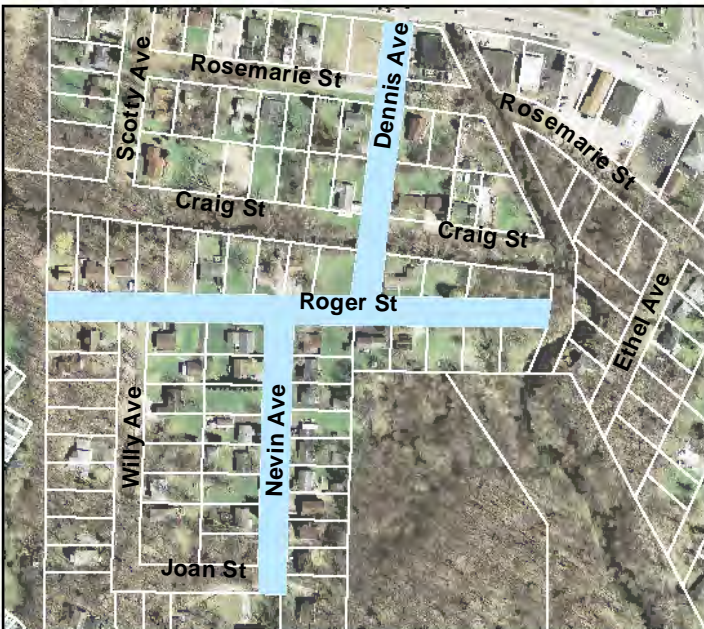
Attest: _____
Village Clerk, Gerald S. Kautz



Service by Township / Owned by Village (0.73 miles)



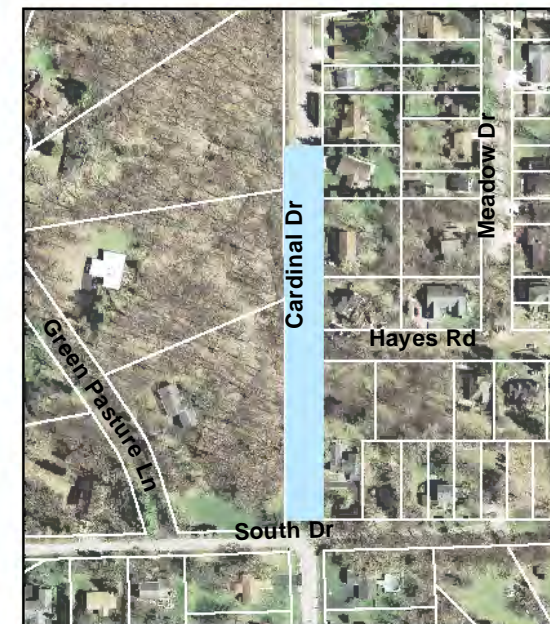
Service by Village / Owned by Township (0.65 miles)



Service by Village / Owned by Township (0.44 miles)



Service by Village / Owned by Township (0.18 miles)



Service by Village / Owned by Township (0.15 miles)



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

DATE: January 10, 2018

TO: Tim Schloneger, Village Manager

FROM: Michele Zimmerman, Assistant Public Works Director

SUBJECT: *Engineering Agreement – Woods Creek Streambank Stabilization Phase II*

Please find attached a copy of the agreement with Christopher Burke Engineering for phase 2 design services for the Randall Road Wetland Complex.

In 2016, the Village purchased the wetland and track of land between Randall Road and Stonegate Road as shown on the attached map in order to accommodate detention for the Randall Road Pedestrian Underpass and bike path connections. As part of this purchase we also envisioned that the wetland could be used as a regional facility to accommodate stormwater storage for adjacent developments as well absorb existing privately owned detentions that are in a state of failure. The plan is to enhance and restore this property to a healthy and functional natural area and then allow development to buy detention credits into this wetland complex, helping to offset the cost of the modifications and restoration.

Christopher Burke performed an initial study and analysis to see if this was feasible. It was confirmed that a regional facility would be possible and could achieve all of our goals. The attached proposal encompasses the final design of the facility as well as all permitting, construction drawings, restoration plans and 5 years' worth of maintenance and monitoring which will most likely be required by the US Army Corp of Engineers.

We expect to start this design immediately as we need the reconstructed complex in order to build the Randall Road Pedestrian Underpass. We also have two private developments adjacent to this wetland that want to construct and expand and are extremely interested in purchasing the detention/wetland credits needed to accommodate their stormwater storage in this regional facility.

The proposal is for \$180,560 and will span over several years as it includes the 5-year maintenance and monitoring tasks. Engineering for this project was not budgeted as we were still working on the design and negotiations with McHenry County Highway Department to construct the underpass as part of their Randall Road widening project when the budget was prepared last year. We currently expect to spend about \$80,000 in this fiscal year and budget the rest next fiscal year and in the pertinent out years. A surplus of money is available in the Street Improvement Fund due to favorable bids coming in for the Downtown Streetscape Utility Lowering. We had budgeted \$2,150,000 and the low bid came in at \$1,900,000.

Therefore, please forward this to the Committee of the Whole where it is our recommendation that they take action to move this matter forward to the Village Board for approval of phase 2 design services in the amount of \$180,560.

**Consulting Engineering
Master Agreement Work Order Form**

I. Incorporation of Master Agreement

All terms and conditions contained within the Village Engineer Master Agreement executed between the parties shall be applicable to the work to be performed under this Work Order and shall be deemed to be fully incorporated as if fully set forth herein.

II. Project Understanding

A. General Understanding/Assumptions

CBBEL understands that the Village of Algonquin would like to utilize local funds for the design and construction of the Ratt Creek Wetland Complex Enhancement project located between Randall Road and Stonegate Road. The project consists of the following:

- Improving the existing wetland complex including a berm and water control structure to enhance upland water features and provide on-line detention.
- Constructing a pedestrian walkway and bridge across the berm spillway to a wetland enhancement educational focal point.

B. Design Criteria

Village, Illinois Department of Natural Resources – Office of Water Resources, United States Army Corp of Engineering, McHenry County Soil and Water Conservation District, and Kane County Stormwater Management Ordinance

III. Scope of Services

A. Surveying Services (CBBEL & AES)

Task A.1 – Pick-Up Survey: CBBEL will conduct a pick-up survey to supplement the survey completed for the Randall Road Underpass and Multi-Use Path Project. The pick-up survey will cover the area to be impacted by the construction of the berm, bridge and walkway.

Task A.2 – Processing and CADD Base File Development: CBBEL will process the raw survey field data and revise the existing CADD base topographic file and Triangulated Irregular Network (TIN) to be used as the basis for design and development of construction documents.

Task A.3 – Tree Survey: AES will tag all desirable native trees to be preserved within the project limits. Tag #, species, diameter at breast height (dbh) and condition will be noted. The location of each tagged tree will be collected via GPS by AES. Results of the tree survey will be included in the Landscape Plan.

B. Engineering Services

Task B.1 - Wetland Permitting

Task B.1.1 – US Army Corps of Engineers Regional Permit 5 Application: (AES with support from CBBEL)

AES staff with support from CBBEL staff will prepare the US Army Corps of Engineers (USACE) Regional Permit 5 permit application submittal to impact federally regulated wetland area in an attempt to authorize the activities as a wetland restoration and enhancement project. This information will include the required exhibits, specifications, data and project information. This information will also be compiled and assembled for placement in a permit application package to the Illinois Environmental Protection Agency, if necessary. AES will also complete the required Section 7 Consultation process required by the online system of the U.S. Fish and Wildlife Service (USFWS) and IDNR consultation regarding the potential presence of threatened and endangered species. AES will submit to Illinois Historic Preservation Agency (IHPA) a request to review their records for potential historic, architectural and archaeological resources within or near the project area per requirements under Section 106 of the National Historic Preservation Act and the Illinois State Agency Historic Resources Preservation Act. As required by the USACE, CBBEL will also include submittal of the soil erosion and sediment control plans to McHenry County Soil and Water Conservation District for review and signoff.

Please note that this task includes preparation of a Regional Permit 5 permit application submittal for wetland restoration and enhancement. If the project does not meet the conditions for a Regional Permit 5 or the USACE requires an Individual Permit for the proposed activity, additional services will be required and a supplemental proposal for Individual Permit application documentation will be submitted to the Village. In addition, this task does not include ecological or archaeological surveys/documentation that may be required by IDNR, USFWS, and/or IHPA.

Task B.1.2 – Kane County Wetland Submittal:

AES staff will assist CBBEL's staff in preparation of the wetland, waters and buffer portions of the Kane County Stormwater Management Ordinance permit application. This information will include the required exhibits, specifications, data and project information.

Task B.1.3 – Permitting Plan Preparation: The required exhibits and specifications for the USACE Regional Permit 5 Application and Kane County Wetland submittals will be prepared under this task. They include:

- Preliminary Construction Plans (CBBEL)
- Vegetation Management & Monitoring Plan completed by AES under Task B.3.2 (AES)

- Proposed Landscaping Plans: completed by AES under Task B.3.1 (AES)
- Erosion Control Plans: Landscape Plan erosion plans completed by AES under Task B.3.1. Erosion plans related to other components of project completed by CBBEL. (AES & CBBEL)

These plans and specifications will provide information to demonstrate the project intent and extent to the permitting agencies.

Task B.2 – IDNR-OWR Permitting Services (CBBEL)

Task B.2.1 - Dam Breach Analysis (Hydrologic and Hydraulic Modeling):

CBBEL will complete a dam breach analysis and mapping of the dam breach wave in support of a dam classification from the Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR). Dams are classified by IDNR-OWR based on hazard potential into one of three hazard classifications based on height and volume of water stored. The IDNR will make the determination regarding the hazard classification by reviewing the breach analysis and the potential impact to structures up to 2 miles downstream. CBBEL will compile a HEC-HMS hydrologic model and a HEC-RAS hydraulic model to compute the outflow hydrograph from the breach and perform the downstream routing. The results of this analysis will be mapped as required by IDNR-OWR in support of the classification. The previously completed XP-SWMM analysis created for the wetland complex will be used as the starting point for this analysis.

Task B.2.2 - IDNR-OWR Permitting Part 3702 Rules: Following the dam classification, CBBEL will compile the necessary information in support of a dam permit. The following items are required by the IDNR-OWR in support of the dam permit under Part 3702 rules:

- Construction plans and specifications (not included in this task and will be completed under Task B.5)
- Hydraulic spillway design calculations along with 100-year flood frequency routing
- Dam breach analysis (completed in the above Task B.2.1)
- Dewatering calculations and plan including normal and emergency conditions
- Minimum dam height and freeboard calculations
- Downstream floodplain delineation
- Energy dissipation design and calculations
- Agreement to provide as-built plans and specifications
- Detailed inspection plan
- Right of access for authorization
- Operation and maintenance plan
- Financial responsibility statement and ownership documents
- Provide easement documentation of the property inundated in the reservoir up to the 100-year storm event
- Summary report and submittal to IDNR-OWR

Given the downstream land use and proximity of residential areas, we have assumed that the proposed dam will be classified as Class I high hazard. The above items are required in support of a Class I or Class II dam. Should the IDNR-OWR classify the proposed dam as Class III following completion of the above dam breach analysis task, permitting requirements will be reduced.

Task B.3 - Enhancement Landscape Design Services (AES)

AES staff proposes to provide the following scope of services for Enhancement Landscape Design, Management & Monitoring Plan, and contractor bid documents and specifications.

Task B.3.1 - Preparation of Landscape Enhancement Plans: (AES)

AES staff will visit the site to determine appropriate ecological enhancement options then prepare native landscape plan sheets (in AutoCAD) for submittal to CBBEL to include in the overall construction documents for the project. The enhancement plan will be based on site grading plans and hydrographs provided by CBBEL. AES will use CBBEL's grading plans as a base map, and will create a Tree Preservation/Removal plan sheet, Landscape Plan sheet with recommended seed/plant/tree lists for all ecological enhancement areas, and Erosion Control plan sheet. Plant plug, seed, and tree lists will be developed for installation in areas shown on plan sheets based on topography, landscape position, and expected soil moisture conditions. The plan sheets will also include estimated bid quantities. This task includes preparation of one response to Village comments.

Task B.3.2 – Preparation of a Management & Monitoring Plan: (AES)

AES staff will prepare a Management & Monitoring (M&M) Plan for the ecological enhancement areas, as required by the USACE under RP5 and Kane County. The plan will include a 5-year management, maintenance, and monitoring schedule to meet performance standards that will be developed in consultation with the USACE. The plan will also include written guidelines and maps related to vegetation transect monitoring and annual reporting requirements. This task includes preparation of one responses to USACE comments.

Task B.3.3 – Landscape Bid Documents, Exhibits, and Specifications: (AES & CBBEL)

AES staff will provide the CBBEL Engineer with appropriate documents for the ecological enhancement and management, and monitoring activities outlined in the Landscape and Management & Monitoring Plans. Specifications provided by AES may include, but are not limited to, Selective Woody Brush & Tree Removal, Soil Preparation, Seeding, Herbaceous Perennial Planting, Tree Planting, and Management of Plantings. CBBEL will be responsible for specifications including but not limited to Grading and Erosion Control. Bid documents, exhibits, and specifications will be produced in hard copies by CBBEL and digitally for Village review. Up to 10 paper copies will be produced.

Bids will be sought by the Village. This task includes one round of revisions following Village review.

Task B.4 – Structural Design Services (CBBEL)

Task B.4.1 – Type, Size and Location: CBBEL will consider different feasible and economical option for the pedestrian bridge over the creek and prepare a TS&L. TS&L will include a general plan and elevation, deck cross section, abutment cross section, Water Table information, Scour Table, and design notes.

Task B.4.2 – Structural Bid Documents, Exhibits, and Specifications: CBBEL will develop final plans, specification, and cost estimate after TS&L approval. The structure will be designed per current AASHTO for Pedestrian Bridges and the plans will be prepared according to IDOT policies.

Task B.5 – Civil Design Services

CBBEL will develop the full construction drawings, specifications, and cost estimate for the project. Work to be completed under this task includes development of a cover sheet, general notes, a summary of quantities, schedules, typical sections, alignment and ties plans, grading plans, erosion control plans, detail, and cross sections. Work developed under Task B.3.1, Task B.3.3. and Task B.4.2 will be incorporated into these construction documents.

C. Meetings/Coordination

Task C.1 – Wetland Review Agency Coordination (associated with Task B.1 - Wetland Permitting): (AES & CBBEL)

Before and during the permit review process, AES and CBBEL expect to have meetings with the regulatory agencies and client. We also expect to have to prepare responses to comments received during the review process. We have budgeted for attendance at two meetings and include budget to cover the cost of submittal of two responses to comments. If additional meetings, or responses to comments, are required they will be billed on a time and materials basis.

Task C.2 – Coordination and Meetings (associated with Task B.3 - Enhancement Landscape Design Services): (AES)

AES staff will provide correspondence and coordination with the Village and hired ecological restoration contractors. This task includes one presentation and one meeting for one AES staff member. Coordination includes correspondence with agencies regarding submittals and reviews, and with the contractors regarding bid specifications and award.

Task C.3 - Coordination and Meetings (associated with Task B.5 Civil Design Services): (CBBEL) Assumed 2 status meetings with the Village.

D. Wetland & Buffer Enhancement Monitoring & Reporting (AES)

Task D.1 - Wetland & Buffer Enhancement Monitoring & Reporting Services

It is understood that the fulfillment and completion of the following wetland and buffer enhancement monitoring and reporting tasks will be the responsibility of Applied Ecological Services, Inc. (AES). The hired ecological contractor is responsible for implementing all construction and maintenance activities outlined in the overall construction documents including the Landscape Plans and project Specifications (B.3.1, & B.3.3).

Task D.1.1 – Enhancement Monitoring Visits & As-Built Review: (AES & CBBEL)

This task includes AES's observation of the ecological restoration contractor's activities in Year 1, providing input and direction regarding appropriate wetland and buffer enhancement, soil erosion/sediment control and maintenance practices. This task includes observation of the weed control, selective thinning, planting, and other activities. AES will complete regular site visits at the time of enhancement activities, including photo documentation. Site visits will be scheduled on dates concurrent with the enhancement activities. AES will provide the Village of Algonquin with updates as work progresses.

Following the completion of grading and prior to planting, CBBEL will review as-built drawings and if acceptable, submit the drawings to USACE for approval. If the as-built grading appears unacceptable, CBBEL will make recommendations to the Village. As-builts of the constructed wetland and buffer enhancement areas typically must be approved by the USACE prior to the planting installation.

Task D.1.2 – Seasonal Site Monitoring Visits: (AES)

In Years 1-5, AES will monitor the site two times per year to assess the function of the site hydrology and overall condition of wetland and buffer vegetation including invasive weed growth. Observations of maintenance deficiencies and recommendations for remediation will be provided to the Village and to the hired ecological restoration contractor in an e-mail update following each visit, so the contractor can adjust their maintenance tasks and schedule accordingly to address deficiencies promptly and before additional problems develop.

Task D.1.3 - Annual Vegetation Assessments: (AES)

AES will complete vegetation sampling one time per growing season in Years 1-5 in mid to late summer (as required in the approved M&M Plan) to assist in determining compliance with USACE and Kane County performance standards. Vegetation sampling will consist of floristic inventory and transect sampling within wetland enhancement and buffer areas.

Task D.1.4 – Annual Reports: (AES)

AES will prepare annual reports in Years 1-5 (as required in the approved M&M Plan) summarizing the general condition of the enhancement wetland and buffer areas, completed management and monitoring activities for the past year, results of vegetation assessments, and recommendations to assist in achieving USACE and Kane County performance standards. Reports will include photo exhibits documenting site condition and progress. These reports will be submitted to the Village for review prior to submittal to the agencies.

Task D.1.5 – Coordination and Meetings (associated with Task D Wetland Maintenance and Monitoring): (AES)

AES will coordinate project completion, attend meetings, and correspond with the ecological restoration contractor, regulatory agencies, and the Village. In addition, AES has scheduled one meeting per year in Years 4 & 5 with USACE and Kane County for sign-off.

E. Services by Others

CBBEL will retain Testing Services Corporation (TSC) as a subconsultant to provide Geotechnical Engineering Services. Two bridge borings will be provided extending 30 to 50 feet below grade. One boring will extend 15 feet deep for the berm. TSC will provide Laboratory Testing and Boring Logs summarized in an Engineering Report with design recommendations.

F. Deliverables

- USACE Permit
- IDNR OWR Dam Permit
- TS&L
- Engineering Plans, Specification, and Cost Estimate

G. Information to be Provided by Client
Reviews

IV. Man-Hour & Fee Summary

	CBBEL	AES
A. Survey Expenses:		
Task A.1 – Pick-Up Survey	\$ 3,000	
Task A.2 – Processing and CADD Base File Development	\$ 2,000	
Task A.3 – Tree Survey		\$ 7,000
<u>Survey Expenses TOTAL</u>	<u>\$ 5,000</u>	<u>\$7,000</u>
B. Engineering Expenses:		
Task B.1.1 – USACE Regional Permit 5 Application	\$ 1,000	\$ 4,000
Task B.1.2 – Kane County Wetland Submittal:	\$ 2,000	\$ 600
Task B.1.3 – Permitting Plan Preparation:	\$12,250	\$ 1,000
Task B.2.1 - Dam Breach Analysis (Hydrologic and Hydraulic Modeling)	\$ 8,200	
Task B.2.2 - IDNR-OWR Permitting Part 3702 Rules	\$17,500	
Task B.3.1 - Preparation of Landscape Enhancement Plans		\$ 8,000
Task B.3.2 – Preparation of a Management & Monitoring Plan		\$ 2,000
Task B.3.3 – Landscape Bid Documents, Exhibits, and Specifications	\$2,000	\$ 2,500
Direct Costs (5%)	\$ 950	
Task B.4.1 - Type, Size, Location	\$ 3,912	
Task B.4.2 - Structural Bid Documents, Exhibits, and Specifications	\$13,648	
Task B.5 – Civil Design Services (P,S, & E)	\$20,500	
<u>Engineering Expenses TOTAL</u>	<u>\$ 81,960</u>	<u>\$18,100</u>
C. Meetings/Coordination Expenses:		
Task C.1 – Wetland Review Agency Coordination (associated with Task B.1 - Wetland Permitting):	\$ 1,000	\$ 1,800
Task C.2 – Coordination and Meetings (associated with Task B.3 – Enhancement Landscape Design Services):	\$ 2,000	\$ 2,500
Task C.3 - Coordination and Meetings (associated with Task B.5 Civil Design Services):	\$ 2,000	
<u>Meetings/Coordination Expenses TOTAL</u>	<u>\$ 5,000</u>	<u>\$ 4,300</u>
C. Wetland & Buffer Enhancement Monitoring & Reporting Expenses		
<u>Year One</u>		
Task D.1.1 – Enhancement Monitoring Visits & As-Built Review		\$ 6,000

	CBBEL	AES
Task D.1.2 - Seasonal Site Monitoring Visits		\$ 1,500
Task D.1.3 - Annual Vegetation Assessments		\$ 4,000
Task D.1.4 - Annual Reports		\$ 2,500
Task D.1.5 - Project Coordination, Meetings, & Correspondence		\$ 1,000
TOTAL YEAR 1		\$15,000
<u>Year Two</u>		
Task D.1.2 - Seasonal Site Monitoring Visits		\$ 1,500
Task D.1.3 - Annual Vegetation Assessments		\$ 4,000
Task D.1.4 - Annual Reports		\$ 2,500
Task D.1.5 - Project Coordination, Meetings, & Correspondence		\$ 1,000
TOTAL YEAR 2		\$ 9,000
<u>Year Three</u>		
Task D.1.2 - Seasonal Site Monitoring Visits		\$ 1,500
Task D.1.3 - Annual Vegetation Assessments		\$ 4,000
Task D.1.4 - Annual Reports		\$ 2,500
Task D.1.5 - Project Coordination, Meetings, & Correspondence		\$ 1,000
TOTAL YEAR 3		\$ 9,000
<u>Year Four</u>		
Task D.1.2 - Seasonal Site Monitoring Visits		\$1,500
Task D.1.3 - Annual Vegetation Assessments		\$ 4,000
Task D.1.4 - Annual Reports		\$ 2,500
Task D.1.5 - Project Coordination, Meetings, & Correspondence		\$ 1,500
TOTAL YEAR 4		\$ 9,500
<u>Year Five</u>		
Task D.1.2 - Seasonal Site Monitoring Visits		\$ 1,500
Task D.1.3 - Annual Vegetation Assessments		\$ 4,000
Task D.1.4 - Annual Reports		\$ 2,500
Task D.1.5 - Project Coordination, Meetings, & Correspondence		\$ 1,500
TOTAL YEAR 5		\$ 9,500
<u>Wetland & Buffer Enhancement Monitoring & Reporting Expenses</u>		
TOTAL	0.00	\$52,000
PROJECT SUBTOTAL	\$91,960	\$81,400
E. Services by Others		
Testing Services Corporation		\$ 7,200
<u>Services by Others TOTAL</u>		<u>\$ 7,200</u>
PROJECT TOTAL		\$180,560

VILLAGE OF ALGONQUIN

Accepted by: _____

Title: _____

Date: _____

CHRISTOPHER B. BURKE ENGINEERING, LTD.

Accepted by:  _____

Title: CTE V.P. _____

Date: 1/5/18 _____

CHRISTOPHER B. BURKE ENGINEERING, LTD.
STANDARD CHARGES FOR PROFESSIONAL SERVICES

<u>Personnel</u>	<u>Charges</u> <u>(\$/Hr)</u>
Principal.....	210
Engineer VI.....	184
Engineer V.....	150
Engineer IV.....	121
Engineer III.....	112
Engineer I/II.....	91
Survey V.....	150
Survey IV.....	115
Survey III.....	110
Survey II.....	86
Survey I.....	67
Resource Planner V.....	102
Resource Planner IV.....	97
Resource Planner III.....	88
Resource Planner II.....	80
Engineering Technician IV.....	115
Engineering Technician III.....	95
Engineering Technician I/II.....	87
CAD Manager.....	121
Assistant CAD Manager.....	115
CAD II.....	112
CAD I.....	87
GIS Specialist III.....	107
GIS Specialist I/II.....	60
Environmental Resource Specialist V.....	133
Environmental Resource Specialist IV.....	121
Environmental Resource Specialist III.....	102
Environmental Resource Specialist II.....	83
Environmental Resource Technician.....	78
Administrative.....	79
Engineering Intern.....	46
Survey Intern.....	46
Information Technician III.....	84
Information Technician I/II.....	54

APPLIED ECOLOGICAL SERVICES, INC
STANDARD RATES FOR PROFESSIONAL SERVICES

RATE SCHEDULE

PROFESSIONAL TITLE	RATE
Principal Ecologist	\$ 190.00 - 250.00/hour
Principal Ecotoxicologist	\$ 130.00 - 185.00/hour
Principal Environmental Engineer	\$ 130.00 - 180.00/hour
Senior Communications Consultant	\$ 170.00/hour
Senior Ecologist	\$ 110.00 - 160.00/hour
Senior Engineer	\$ 110.00 - 160.00/hours
Senior Geologist	\$ 180.00 - 200.00/hour
Senior Hydrologist	\$ 100.00 - 150.00/hour
Senior Landscape Architect/Planner	\$ 100.00 - 180.00/hour
Landscape Architect	\$ 90.00 - 120.00/hour
Staff Cartographer/GIS analyst	\$ 80.00 - 120.00/hour
Staff Ecologist	\$ 80.00 - 120.00/hour
Staff Engineer	\$ 100.00 - 150.00/hour
Staff Biologist	\$ 80.00 - 120.00/hour
Staff Ecological/Landscape Designer	\$ 80.00 - 120.00/hour
Associate Ecologist	\$ 85.00/hour
Associate Ecological/Landscape Designer	\$ 75.00/hour
CADD/GIS Draftsperson	\$ 70.00 - 95.00/hour
Technical Assistant	\$ 60.00/hour
Clerical	\$ 60.00/hour

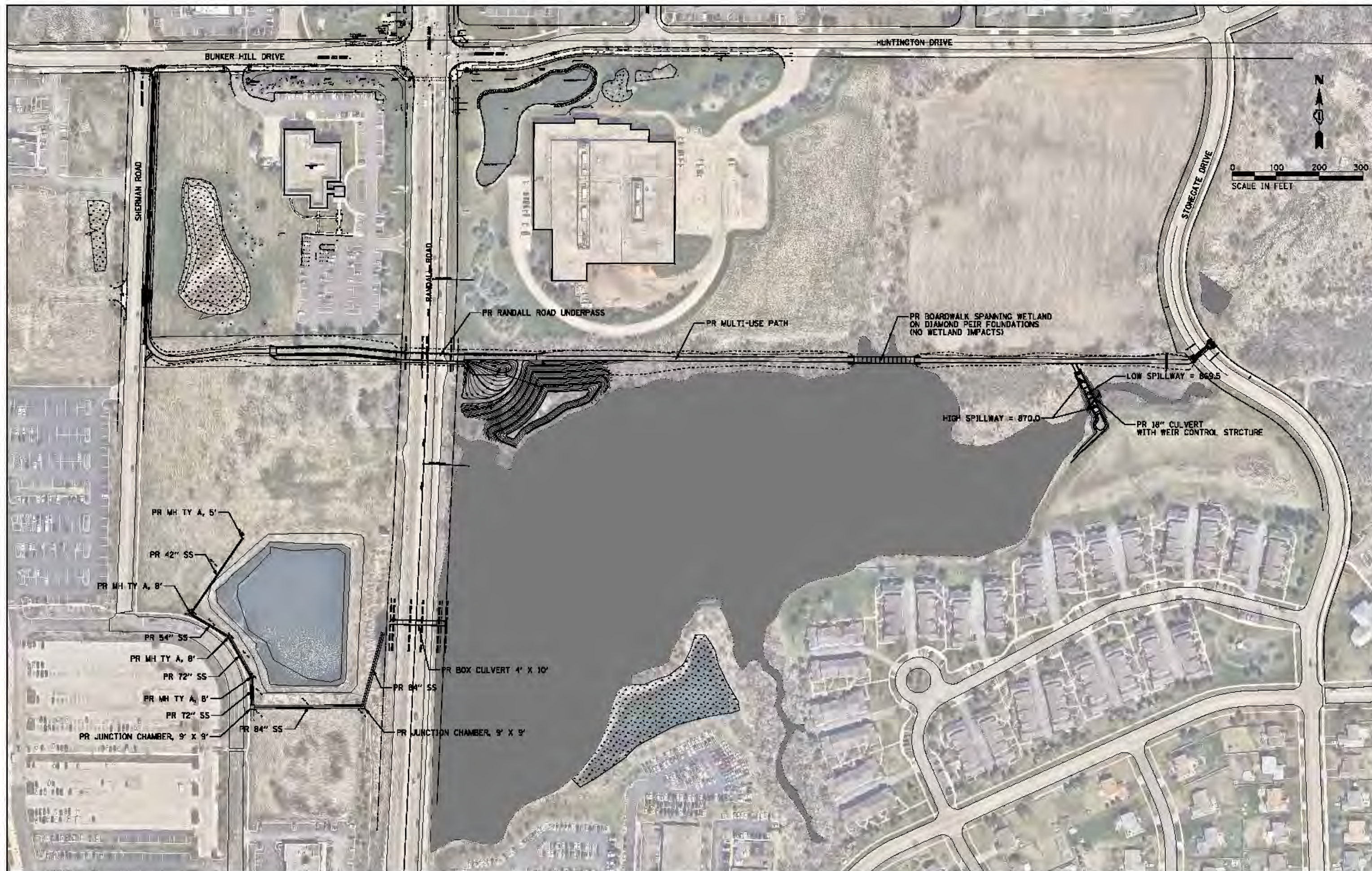
OTHER SERVICES

Construction Oversight	\$ 80.00-120.00/hour
Technical Writing	\$ 100.00/hour
Automated Data Compliance/Processing	\$ 35.00/hour

EXPENSES

Transportation mileage	\$ 0.60/mile
Per Diem	\$ 50.00/person/day
Computer Plotting - Black and White	\$ 1.50/square foot
Computer Plotting - Color	\$ 3.00/square foot
Black and White Copies and Prints	\$ 0.10/page
Color Copies and Prints	\$ 0.25/page
11 x 17 prints - color	\$ 2.00/sheet
CD burning	\$ 1.00 each
DVD burning	\$ 5.00 each
Scanning - small document	\$ 0.10/page
Scanning - large document	\$ 3.50/square foot
GPS Equipment	\$ 200.00/day
Computer Processing	\$ 35.00/hour
Corporate Plane Air Fare	\$ 2.85/mile
Any additional services	Cost plus 15%

*Time spent providing testimony for legal proceedings will be billed at double normal hourly rate. Effective Jan 1, 2013



FILE NAME =	USER NAME = mcmoran	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RANDALL ROAD UNDERPASS AND MULTI-USE PATH OVERALL WETLAND ENHANCEMENT					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\VALDONGUIN\070273\070273\000708\CV.dwg	Overall Wetland Enhancement.sht	DRAWN -	REVISED -		SCALE: 1"	SHEET	OF	SHEETS	STA.	TO STA.				
Default	PLOT SCALE = 100'	CHECKED -	REVISED -								CONTRACT NO.			
	PLOT DATE = 9/12/2017	DATE -	REVISED -								ILLINOIS FED. AID PROJECT			