

MEMORANDUM

TO: Village President and Board of Trustees

FROM: Robert O. Barber, Village Administrator

DATE: Friday, February 21, 2020

RE: VILLAGE ADMINISTRATOR MATERIALS FOR VILLAGE BOARD MEETING

BOARD MEETING DATE: *Monday, February 24, 2020 at 7:00 p.m.*

A G E N D A

I. PLEDGE TO THE FLAG

II. ROLL CALL

III. APPROVAL OF MINUTES OF THE PREVIOUS MEETINGS OF THE MONTH

IV. VILLAGE CLERK REPORT

V. RECOGNITION OF AUDIENCE

VI. REPORT OF THE VILLAGE PRESIDENT

1. VILLAGE RETAINS SERVICES OF NEW LABOR ATTORNEY. Our previous attorney Tim Guare has retired and the firm he was with no longer specializes in public labor management. After some research and reference checks the Village President has retained Michael Kuczvara of Laner Muchin in Chicago on an hourly basis for labor management guidance.
2. CODE COMPLIANCE OFFICER UPDATE.
3. BRANDY FLORES AND TERRY KASPUT SUBMIT LETTERS OF RESIGNATION FROM THE YOUTH COMMISSION.
4. CONSIDER A REQUEST FROM THE BEECHER FOURTH OF JULY COMMISSION FOR A 30 DAY LINE OF CREDIT NOT TO EXCEED \$50,000 FOR OPENING EXPENSES RELATED TO THE FESTIVAL. At its meeting on Thursday night, the commission was told by its beer vendor that state regulations have changed regarding the wholesale purchase of beer for special events requiring payment

in full for product before the festival opens and being reimbursed for unused product at the end. The old regulations allowed for a one day supply to be purchased up front. This will require \$37,000 according to the committee that runs the beer stand. Since the Commission only has \$38,000 on account and needs to purchase a car for the raffle and have cash available for opening day this is real problem. The commission is going to have to begin banking funds for a \$60,000 reserve to stand on its own once again. If this motion is approved, it would be a standing motion replacing the motion of providing the beer deposit that was approved two years ago.

A. FINANCE AND ADMINISTRATION COMMITTEE - Frank Basile, Marcy Meyer

1. FIRST DRAFT OF BUDGET FOR WORKSHOP will be distributed at the meeting. The workshop is scheduled for Monday, March 30th at 6:00 p.m.
2. VILLAGE PARTICIPATES IN COMMUNITY SOLAR PURCHASING PROGRAM: BIDS WERE NOT FAVORABLE. As a result, the Village has decided to remain in the NIMEC subpool. Please see the enclosed report.

B. PUBLIC BUILDINGS AND PROPERTIES, PARKS AND RECREATION COMMITTEE - Scott Wehling, Todd Kraus

1. PARK DISTRICT REFERENDUM UPDATE. The Committee has come up with the enclosed handout to be distributed or mailed to each residence in the Village. It will also be placed on our social media platforms. Any other ideas for getting the word out?

C. PLANNING, BUILDING AND ZONING COMMITTEE - Stacy Mazurek, Jonathan Kypuros

1. PUBLIC HEARING THIS THURSDAY, FEBRUARY 27TH AT THE WASHINGTON TOWNSHIP CENTER REGARDING FENCES. This hearing is difficult to gauge because there has been very little chatter regarding the issue.

D. PUBLIC SAFETY COMMITTEE - Todd Kraus, Scott Wehling

1. OFFICER MAZUREK RESIGNS TO TAKE A POSITION AS PATROL OFFICER FOR THE CITY OF CALUMET CITY. Depending on the direction the department wants to take an executive session may be called by the Chairman at the meeting.

E. PUBLIC WORKS COMMITTEE - Jonathan Kypuros, Stacy Mazurek

1. BEECHER WASTEWATER TREATMENT PLANT PROGRESS REPORT.
There was \$11,200 in extra sludge that had to be removed out of the inner two rings that was not accounted for in the bid. The Village will be using the remaining \$9,200 of IEPA loan for this grit removal and IHC will bill the Village for the remainder.

The next item to consider is a date and time for the ribbon cutting and open house at the plant where tours will be provided to the residents and Board members. We are looking at either Saturday, June 13th or June 20th from 10am to 12 noon. The Board can pick the date that best works for them. We will also be inviting our local legislators to the event.
2. CONSIDER A RESOLUTION ADOPTING A COMPLETE STREETS POLICY FOR ALL VILLAGE ROAD CONSTRUCTION OR RE-CONSTRUCTION PROJECTS. This policy states that whenever a new road is built or an existing road re-constructed (like Penfield) then the Village will utilize complete streets criteria in assessing construction options for the roadway. This includes bike lanes, crosswalks, and many things we already do. We need this policy in place to obtain 15 more points toward our score for the Church Road STP application and makes our application stronger. We also agreed to adopt such a policy in our comprehensive plan. It is recommended we approve the enclosed resolution.
3. CONSIDER A RESOLUTION INCLUDING THE RESURFACING OF GOULD STREET FROM PENFIELD TO INDIANA AS A LAPPO PROJECT IN THE STP FOR PENFIELD. A window of opportunity has opened for us to submit for additional grant funds to resurface Gould Street from Indiana to Penfield since it is an extension of an existing FAU Route, it is part of a bigger project, and it is being requested in a new call for projects cycle. In other words, the delay of Penfield may have opened the door for a smaller grant called LAPPO which is piggy-backed onto the STP project for resurfacing only. The Village would still have to come up with its 20% share of THE cost but that is much better than 100%. The unit pricing may also be very good with the Penfield bid. Staff recommends approval of the application. This may mean borrowing a little more than what was believed but the delay in Penfield continues the banking of funds. \$980,000 will be needed to pay IDOT for Penfield after construction on the project begins. We always planned on a 10 year loan for this amount but right now we have reserves to cover a portion of this.
4. CONSIDER A RESOLUTION AUTHORIZING THE SUBMITTAL OF AN APPLICATION TO THE WILL COUNTY TRANSPORTATION COMMITTEE FOR STP FUNDS FOR THE RECONSTRUCTION OF CHURCH ROAD FROM DIXIE TO CARDINAL CREEK BOULEVARD. The Board has already approved the use of MFT funds for the application but a formal resolution (enclosed) has to be included with the application. This resolution acknowledges the Village's requirement of 100% for Phase I Environmental and a 20% local match for Phase II design and Phase III Construction.

5. CONSIDER A MOTION AUTHORIZING A PUBLIC HEARING FOR TUESDAY, MARCH 17TH AT 7:00 P.M. ON THE VILLAGE'S LEAD LINE REPLACEMENT PROGRAM. This is an informal walk-through open house type hearing where residents walk through exhibits and are asked to provide written comments. A similar public hearing was held for Penfield Street reconstruction. There is no need for a quorum or attendance by Board members. The consultant and staff handle everything. The purpose of the hearing is to inform residents of the project and the use of IEPA funds to complete the project. The Supt. can provide more information on the program at the meeting. We are being told that this Phase of the project will include \$896,925 in IEPA loan forgiveness and \$61,491 borrowed by the Village for 20 years at 1.5% for the meter replacement portion of the project. All lead lines west of Woodward Street would be replaced. Please see the enclosed material.

F. ECONOMIC DEVELOPMENT AND COMMUNITY RELATIONS COMMITTEE
- Marcy Meyer, Frank Basile

1. POTENTIAL CRAFT GROWER OF CANNABIS APPROACHES THE VILLAGE. A meeting was scheduled as of this printing with a potential craft grower of cannabis and if there is any new information it will be shared by the Chair at the meeting.

G. OLD BUSINESS

H. NEW BUSINESS

I. ADJOURN INTO EXECUTIVE SESSION (if necessary)

J. ADJOURNMENT

Reports:

1. Sewer Department for January
2. New STP Schedule regarding Penfield
3. Public Works Department Annual Report for 2019
4. Report from the City of Joliet on Water Supply Alternatives (presented to Will County Governmental League on 2/13/20)
5. AZAVAR Quarterly Report to the Village

**MINUTES OF THE REGULAR MEETING OF THE PRESIDENT
& BOARD OF TRUSTEES OF THE VILLAGE OF BEECHER
HELD AT THE BEECHER VILLAGE HALL,
625 DIXIE HIGHWAY, BEECHER, ILLINOIS
FEBRUARY 10, 2020 -- 7:00 P.M.**

All present joined in the Pledge to the Flag.

President Szymanski called the meeting to order.

ROLL CALL

PRESENT: President Szymanski and Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

ABSENT: None.

STAFF PRESENT: Clerk Janett Conner, Administrator Robert Barber, Public Works Superintendent Matt Conner, Chief Greg Smith and Treasurer Donna Rooney.

GUEST: George Schuitema and Eddie Hiller.

President Szymanski asked for consideration of the minutes of the January 27, 2020 Board meeting. Trustee Kraus made a motion to approve the minutes as written. Trustee Meyer seconded the motion.

AYES: (5) Trustees Mazurek, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

ABSTAIN: (1) Trustee Basile.

Motion Carried.

RECOGNITION OF AUDIENCE

Chief Smith introduced Brian Fravel as new full-time Police officer. He was previously part-time.

CLERK'S REPORT

1) A report on income received since the last meeting was provided. 2) Clerk Conner reported the dog tag deadline is March 15th.

REPORTS OF VILLAGE COMMISSIONS

There was nothing to report for Beautification Commission.

Trustee Meyer reported that the next meeting of the Fourth of July Commission is February 20th.

Trustee Mazurek provided a Youth Commission update. The Daddy Daughter dance is scheduled for February 29th. Next meeting will be February 19th.

Trustee Wehling reported that the next Historic Preservation Commission meeting is scheduled for February 26th at the Depot. A report was provided on the ongoing plaque program.

VILLAGE PRESIDENT'S REPORT

President Szymanski appointed Michelle Panozzo, Kim Wojciechowski and Megan Haddon to the Beecher Youth Commission. Trustee Kypuros made a motion to approve President Szymanski's appointments. Trustee Mazurek seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion Carried.

The Board considered an Ordinance reducing the population requirements for a Class A liquor license to permit two additional licenses for consumption on premise. Trustee Meyer questioned the Lacey's request for a full liquor license and if there is a process to check on whether food is served at locations with liquor licenses. Trustee Basile asked about the population criteria for liquor licenses. President Szymanski said that approving additional licenses is part of the process, but a license would not be issued until certain conditions are satisfied for the businesses.

ORDINANCE #1322 – An Ordinance reducing the population requirements for a Class A liquor license to permit two additional licenses for consumption on premise. Trustee Meyer made a motion to approve Ordinance #1322. Trustee Kypuros seconded the motion.

AYES: (5) Trustees Mazurek, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

ABSTAIN: (1) Trustee Basile.

Motion Carried.

Trustee Basile and Clerk Conner attended the SSMMA meeting with local legislators the previous week and provided a report.

A. FINANCE AND ADMINISTRATION COMMITTEE

TREASURER'S REPORT: A copy of the Treasurer's report was provided to the Board for review and Treasurer Rooney provided a summary. Trustee Basile made a motion to approve the Treasurer's Report and the Report of Financial Activity in the prior month. Trustee Wehling seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

Variance reports for the preceding month were provided in the packet for review.

A list of bills totaling \$130,971.60 to be paid was available for review. A summary of the list of bills was provided. Trustee Basile made a motion to approve payment of the list of bills as presented. Trustee Meyer seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

A budget approval timeline was explained. The Board decided to hold a special Board meeting the fifth Monday in March, March 30th at 6 p.m. and review the entire budget at once. Trustee Basile made a motion authorizing a special Board meeting to discuss the budget on Monday, March 30, 2020 at 6 p.m. Trustee Kypuros seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

Trustee Basile made a motion to authorize a public hearing on the proposed budget on Monday, April 27, 2020 at 7 p.m. Trustee Mazurek seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

It was reported that elected officials and employees are required to take sexual harassment training before December 31, 2020. More information will be provided once the training requirements are available.

B. PUBLIC BUILDINGS AND PROPERTIES, PARKS AND RECREATION COMMITTEE

Trustee Wehling provided an update on the splash pad. He provided two sets of splash pad renderings and prices. He then explained the design and how it would work and how different phases can be added after the initial pad. Can look into financing with grants or if a park district is approved it could be something the district could do. Board discussed brushed concrete vs. rubber floor for pad. Trustee Wehling will look into the difference in cost. The splash pad is being planned for 2021.

The park district referendum will be on the ballot on March 17th. The Board discussed getting information out to the residents. The Board was asked whether there should be a one-page mailing in addition to using social media to get the word out. The Committee will work on a flyer.

C. PLANNING, BUILDING AND ZONING COMMITTEE

A public hearing on the proposed fence amendments is scheduled for Thursday, February 27th at 7 p.m. at the Township Center.

Copies of the new 2019 Comprehensive Land Use Plan were provided to the Board at the last meeting. The project is now complete.

D. PUBLIC SAFETY COMMITTEE

A proposal for a new code enforcement program for 2020 was provided in the packet for review. The intention is to remove code enforcement from the Police Department and make it a function of the Village Hall. The proposed program will add \$15,246 in new expenses to the General Fund, since the original plan in the Police Department included patrol coverage that cannot be reduced. This will be discussed further in the budget workshops. President Szymanski asked if a consensus is needed on the program cost so staff can begin looking for someone to fill the position and be in place for spring, pending approval of the budget. Otherwise the Police Department would need to continue code enforcement until the budget and this program is approved. The Village may also work with the Fire Department on finding staff for this. It was questioned where the funding will come from for this program. The money would most likely not come from the Police budget but be an added expense.

A Laraway Communications Center update was provided. Trustee Kraus and Administrator Barber attended the last Board of Directors meeting on January 30th. There was an agreement to a 5% cap on fees for 2020 which reduced Beecher's cost by over \$12,000 for the coming year and was less than what was anticipated.

E. PUBLIC WORKS COMMITTEE

Trustee Kypuros made a motion to approve an agreement with Baxter and Woodman Engineers in the amount of \$50,000 for Beecher Wastewater Treatment Plant permit compliance. Trustee Mazurek seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

The Board considered a resolution to submit an application to the Will County Governmental League Transportation Committee for inclusion of the rehab of Church Road from Dixie Highway to Cardinal Creek Boulevard as an 80/20 Federal STP project in the new five-year plan for fiscal year 2026 from Baxter and Woodman in the amount of \$4,000 using MFT funds. Administrator Barber reported Penfield Street project was scheduled for 2019 and just learned federal government pushed project back to 2022 due to problems at the State so we need to move forward and get on the list for this new project now since it is unknown how far it could be pushed back. Trustee Kypuros recommended to get moving with this project to get ahead. President Szymanski expressed concerns on applying for a project and tying up future funds and not being able to save to get other local roads improved.

RESOLUTION #2020-02 – A Resolution to submit an application to the Will County Governmental League Transportation Committee for including of the rehab of Church Road from Dixie Highway to Cardinal Creek Boulevard as an 80/20 Federal STP project in the new five-year plan for fiscal year 2026 from Baxter and Woodman in the amount of \$4,000 using MFT funds.

Trustee Kypuros made a motion to adopt Resolution #2020-02. Seconded by Trustee Mazurek.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

Trustee Kypuros made a motion authorizing payment to Baxter and Woodman in the amount of \$19,995.11 upon the receipt of IEPA loan funds for progress payment for construction management services related to the Beecher wastewater treatment plant. Trustee Meyer seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion carried.

F. ECONOMIC DEVELOPMENT AND COMMUNITY RELATIONS COMMITTEE

The Committee is planning to meet and discuss a date and time in March to hold an open house for home builders.

G. OLD BUSINESS

None.

H. NEW BUSINESS

Trustee Meyer reported that she submitted some photos and a video online to HGTV to enter Beecher into their contest to make improvements to the downtown. She had a number of issues submitting the information including the HGTV website being hacked and some files being too large but was able to get it done by contacting HGTV through email.

The following reports were included in the Board packet for review:

1. Illinois Municipal Insurance Cooperative (IMIC) year-end financial report
2. Laraway Communications Center (LCC) year-end report
3. Laraway Communications Center Strategic Plan
4. Building Department monthly report
5. Water Department monthly report

There being no further business, President Szymanski asked for a motion to adjourn. Trustee Wehling made a motion to adjourn the meeting. Trustee Kraus seconded the motion.

AYES: (6) Trustees Mazurek, Basile, Wehling, Kypuros, Meyer and Kraus.

NAYS: (0) None.

Motion Carried.

Meeting adjourned at 7:57 p.m.

Respectfully submitted by:

Janett Conner
Village Clerk

CONSIDER A PROPOSAL FOR A CODE COMPLIANCE OFFICER

BACKGROUND

Prior to 2013, the Village Hall was responsible for code enforcement. Julie Riechers was assigned to code enforcement for one hour each day and upon request. She was also the utility billing clerk and fuel secretary. This program was reactive in nature but complaints did get processed.

When Julie left employment, the decision was made to have the police department take over code enforcement so that the program could become more proactive and less reactive. Aaron Decorte was a part-time officer at the time and was assigned this duty. He went to a three day class and became certified in the property maintenance code. He worked some weekdays and every other weekend for one shift. While on patrol he observed violations and worked with property owners to achieve compliance. There were some citations written but these were to absentee landlords and vacant property owners. Liens were also placed on properties for failure to pay past due mowing fees.

Aaron Dacrote was then made a full time officer in 2015 and was moved to midnights as a probationary officer. He stayed on code enforcement for a time but due to his shift and the lack of communication with the Village Hall the Chief assumed more of the duties. The Chief did not have the time to adequately address code enforcement and asked to be relieved of this responsibility in the Fall of 2015.

The Administrator began to look at various options and it was decided at that time to outsource code enforcement to Safebuilt, Inc. at a rate of \$60 per hour not to exceed \$17,500 per year. This would provide only 292 hours of code enforcement per year. This was not an ideal situation at the time but it was what the Village had budgeted. The Village President agreed to place this item on the Board agenda.

The day of the Village Board meeting Chief Weissgerber signed an MOU where Denis Tatgenhorst would provide code enforcement, community policing, EMA Director, and other duties as assigned as the third day car on the street for 1,000 hours per year for \$36,000 per year. \$17,500 would come from the code enforcement budget, \$5,000 from EMA and the remainder would come from the part-time police budget. This arrangement was discontinued in 2018 by action of the Village Board. Since that time, the police department has been handling code and the Chief would assign officers to specific complaints.

The code enforcement program has limped along since 2018. The main problems with the current practice is the image of the police department and the lack of communication between shifts and between the Village Hall and the police department. There lacks a coordinated procedure or a specific "go to" person for handling of nuisance complaints.

After several meetings with the Village President as the appointing authority, the Public Safety Chair as the committee responsible for program, the Administrator and the Chief the following proposal has come forward for the Village Board to consider.

PROPOSAL

It is recommended that the Village hire a part-time person on a flexible schedule for up to 750 hours at a range of \$16 to \$18 per hour DOE to be the code enforcement officer. This person would be non-sworn but have the ability to write local ordinance tickets. This person would work out of the Village Hall and report directly to the Village Administrator as is stated in our current ordinance. Compliance would be the goal and not the writing of tickets. Duties and budget for this program are described below. The person would wear a uniform different than a police officer (logo polo and ID tag) and a vehicle (if available) could be parked at the Village Hall and be provided for this officer's use. Another option is to use one's personal vehicle and pay mileage. The car would have magnet labels stating "Beecher Code Compliance Officer". The officer and the Administrator would prepare a work schedule acceptable to the Village for completion of the duties. More time would be allocated in the Summer months than in the Winter months.

A recruitment process would include using Indeed.com and Village website. The goals would be to have this officer in place by no later than April 30, 2020 when nuisance complaints begin to rise. This is not currently in the budget so there would be some overlap issues.

Code Compliance Officer Budget:

Hourly Pay of \$17/hr x 750 hrs:	\$12,750
FICA	976
Uniform	200
Vehicle Fuel/Use per yr:	1,500
TOTAL:	\$15,426

One Time Expense for a Vehicle: Police department to provide

Duties of Code Compliance Officer:

1. Inspect Common Hallways of Apartment Buildings
2. Assist Fire Department with Life Safety Inspection Compliance of Commercial Property
3. High Weeds
4. Portable Signs
5. Work with Owners of old buildings to Improve their Properties
6. Swimming Pools and Other Life Safety Complaints
7. Illegal Dumping, especially on vacant lots in newer subdivisions
8. Investigate complaints of unsanitary conditions
9. Annual check of ordinance pertaining to visible addresses
10. Patrol for violations
11. Deliver past due water bills
12. Outside inspection of vacant homes and buildings for compliance
13. Checking for valid building permits and contractors licenses
14. Check of compliance with amusement device licensing
15. Check of zoning violations such as trailers in front yard setbacks
16. Silt fencing, portable johns, and clean streets in areas under construction
17. Notify police department of suspicious activity, abandoned or unlicensed vehicles
18. Other duties as assigned.

**NOW HIRING:
CODE COMPLIANCE OFFICER**

The Village of Beecher is seeking a part-time code compliance officer which is a non-sworn position reporting directly to the Village Administrator. Flexible schedule weekdays capped at 750 hours per year. \$16 to \$18/hr. DOE. Enforcement of the Property Maintenance Code, Nuisance and Licensing ordinances, and certain chapters of the Municipal Code. Apply to Village of Beecher, 625 Dixie Highway, P.O. Box 1154, Beecher, IL 60401 or download application at www.villageofbeecher.org. Applications due by Friday, March 20th.

Chapter 14

CODE ENFORCEMENT OFFICER

1-14-1: OFFICE CREATED:

The position of village code enforcement officer is hereby created subject to the provisions of this chapter. Nothing in this chapter shall supersede or detract from the statutory powers and authority of other elected and appointed officials of the village. Further, in the event of any conflict between state statutes, as amended from time to time, and this chapter, state statute shall supersede and control. (Ord. 1155, 4-23-2012)

1-14-2: APPOINTMENT AND QUALIFICATIONS:

The village president shall appoint a village code enforcement officer, by and with the advice and consent of the village board of trustees, for a term of one year or as set forth by contract. In making such an appointment, the village president shall consider the qualifications, past conduct, knowledge and experience of the individual being considered for such an appointment in all aspects of this code, village operations and the provisions of this chapter. The village code enforcement officer must have a valid driver's license and must not have been convicted of a felony. The village code enforcement officer must take an oath of office as a sworn officer of the village, but shall not possess the power of arrest or the ability to carry a firearm. (Ord. 1155, 4-23-2012)

1-14-3: COMPENSATION:

The rate of compensation of the village code enforcement officer shall be set by the village board of trustees and may be adjusted from time to time as the village board of trustees deems appropriate. (Ord. 1155, 4-23-2012)

1-14-4: REMOVAL FROM OFFICE:

The village code enforcement officer shall at all times be subject to the removal of office by a majority vote of the total membership of the corporate authorities. (Ord. 1155, 4-23-2012)

1-14-5: DUTIES AND RESPONSIBILITIES:

The village code enforcement officer shall act independently of the Beecher police department and be under the direct supervision of the village administrator. The village code enforcement officer shall work with and assist the village zoning administrator, chief of police, and the building inspectors in enforcing certain provisions of this code and shall have the authority to issue local citations for violations of local ordinances and issue cease and desist orders to violations in progress. The village code enforcement officer shall have the authority as provided by state law and the ordinances of the village to inspect private and public property for conformance to the codes under the officer's authority

as stated herein. In the event the village code enforcement officer does not obtain compliance with such an order, a sworn officer of the Beecher police department shall be summoned to assist in the enforcement of this code. The village code enforcement officer shall have the authority to issue long form complaints through the police department or the village prosecutor and act as the village's official agent or witness in local court when called upon to do so.

The village code enforcement officer shall have the authority to enforce the following provisions of this code:

- (A) Business regulations, with the exception of liquor regulations.
- (B) Current building regulations as adopted in this code.
- (C) Barbed wire fence regulations.
- (D) Obstructing gutters, sewers regulations.
- (E) Graffiti prohibited regulations.
- (F) Dog license regulations.
- (G) Removal of dog excrement regulations.
- (H) Swine and poultry regulations.
- (I) Nuisances, plants and weeds regulations.
- (J) Solicitor regulations.
- (K) Health and sanitation regulations.
- (L) Public ways and property regulations.
- (M) The village zoning ordinance, as amended from time to time.
- (N) The village subdivision ordinance, as amended from time to time.
- (O) The international property maintenance code, as amended from time to time. (Ord. 1155, 4-23-2012)

Chapter 4

NUISANCES

6-4-1: PROHIBITED GENERALLY:

- (A) For the purposes of this section, the term "public nuisance" shall be defined as any activity, inactivity, neglect, omission, commission, abandonment, inadvertent or otherwise, or the like, which does, or tends to, permits, or results in a condition or conditions or circumstances which deleteriously affects the public health, public safety, public welfare, public morals, public sensibilities, public rights and enjoyment of residence or property, panders to vicious tastes, creates attractive nuisances for minors, results in a dilapidated, abandoned or dangerous building or buildings, or improvement or improvements, or unfinished or uncompleted improvements on real property, permits the growth of noxious or poisonous weeds or growth and accumulation of trash dumps or not maintaining pond areas or the like. Any person who shall be responsible for the maintenance of a public nuisance shall be guilty of an offense of the provisions specified hereinbefore and hereinafter in this chapter.
- (B) It shall be unlawful to commit or do any act which endangers the public health or results in annoyance or discomfort to the public. It shall be unlawful for any person to permit or maintain the existence of any nuisance on any property under such person's control.
- (C) It shall be unlawful for any property owner within the Village to permit or maintain the existence of any nuisance consisting of any weeds, grasses or plants, other than trees, bushes, flowers or other ornamental plants, on the Village parkway abutting such owner's property. For purposes of this subsection, "parkway" is defined as that area located between the property owner's lot line and the Village street.
- (D) It shall be unlawful for any property owner or entity responsible for maintenance of a pond to allow:
- 1) more than one-third ($\frac{1}{3}$) of the water surface area of the pond to be covered in algae; 2) to allow more than one-third ($\frac{1}{3}$) of the water surface area of the pond to have vegetation of any kind; 3) to allow garbage or other debris to remain in the pond area; 4) to allow grass or weeds to exceed eight inches (8") in height in the pond areas not covered with water; 5) to allow foul odors to originate from such pond areas; 6) to allow weeds or debris in cement troughs or rip rap around pond and pond structures; or 7) to allow culverts or other pond improvements to remain damaged or missing. For purposes of this subsection, "pond" is defined as any area designated or used for stormwater purposes, regardless if such facility always has water present or is a dry bottom stormwater facility. (Ord. 1276, 9-25-2017)

6-4-2: NUISANCE ABATEMENT:

The Village is hereby authorized to abate any nuisance existing in the Village, whether such nuisance is recognized by ordinance or otherwise, subject to the notification provisions as required by law. In addition to the assessment of any fine or penalty, the Village shall also assess the cost of abatement

of any nuisance to the party responsible and/or the owner of the property upon which the nuisance occurred according to State Statute. (Ord. 1173, 2-11-2013)

6-4-3: STAGNANT WATER:

Any stagnant pool of water in the Village is hereby declared to be a nuisance. It shall be unlawful for any person to permit any such nuisance to remain or exist on any property under his or its control. (Ord. 1173, 2-11-2013)

6-4-4: REFUSE:

It shall be unlawful for any person to deposit anywhere in the Village any uncovered piles of refuse, garbage, offal or carcasses of dead animals. Such refuse must be buried at least two feet (2') below the surface of the ground. Any uncovered pile of refuse is hereby declared to be a nuisance. (Ord. 1173, 2-11-2013)

6-4-5: PREMISES:

It shall be unlawful to permit any building, structure or place, to remain in such a condition as to be dangerous to the public health in any way. Any such structure, building or place is hereby declared to be a nuisance. Further, clothing collection boxes and other similar containers are prohibited from being located outside of a building and are hereby declared to be a nuisance unless special permission is granted by the Board of Trustees or by the granting of a special use permit pursuant to the Village zoning ordinance. (Ord. 1173, 2-11-2013)

6-4-6: PLANTS, WEEDS, AND POND MAINTENANCE ABATEMENT:

- (A) It shall be the duty of the Chief of Police or Code Enforcement Officer to serve or cause to be served a notice upon the owner or occupant or entity responsible for maintenance of any such premises on which weeds or plants are permitted to grow or where ponds are not maintained in violation of the provisions of this chapter, and to demand the abatement of the nuisance within five (5) days.
- (B) If the person so served does not abate the nuisance within five (5) days after such notice, the Superintendent of Public Works or designee may proceed to abate such nuisance, keeping an account of the expense thereof, and such expense shall be charged to and paid by the owner or occupant of the premises concerned, and the same shall constitute a lien upon the real estate affected, superior to all other liens and encumbrances, except tax liens; provided, that within sixty (60) days after such cost and expense is incurred by the Municipality, the person or persons, performing the service by the authority of the Municipality, in his or its own name, files notice of lien in the Office of the Recorder of Deeds of Will County, consisting of a sworn statement setting out: 1) description of the real estate sufficient for identification thereof, 2) the amount of money representing the cost and expense incurred or payable for the service, and 3) the date or dates when such cost and expense was incurred by the Municipality. Upon payment of the cost and expense by the owner of or persons interested in such property, after notice of lien has been filed,

the lien shall be released by the Municipality or person in whose name the lien has been filed and the release may be filed of record as in the case of filing notice of lien. (Ord. 1276, 9-25-2017)

6-4-7: PROHIBITED WEEDS:

Any weed such as jimson, burdock, ragweed, thistle, cocklebur, or other weeds of a similar kind, found growing in the Village are hereby declared to be nuisances, and it shall be unlawful to permit any such weeds to grow or remain in the Village. (Ord. 1173, 2-11-2013)

6-4-8: PROHIBITED HEIGHTS:

- (A) Prohibited Heights: It shall be unlawful for any person or entity to permit any weeds, grass or plants, other than trees, bushes or flowers or other ornamental trees to grow to a height exceeding eight inches (8"); any such plants or weeds shall be and are hereby declared to be a nuisance. This prohibition shall not apply to vegetation native to the area, including ferns, wildflowers, grasses, forbs, shrubs, and trees as long as they are properly and reasonably managed to create a landscape amenity as determined by the Village's Code Enforcement Officer.
- (B) Application To New Subdivisions: The prohibition contained in subsection (A) of this section shall apply to and be enforced as to any property located within the Village as stated hereinafter.
1. In the case of newly created subdivisions (those subdivisions that are approved by the Village after the effective date hereof), all lots, parkways and common areas shall be fine graded and all weeds thereon shall be maintained in accordance with the standards of this section and shall not allow any prohibited weeds to grow thereon.
 2. Provided, however, that the requirements of subsection (A) of this section may be enforced in any newly subdivided property commencing immediately after approval of such new subdivision that may be approved after the effective date hereof, and after the installation and acceptance by the Village of required public improvements. Grass and weed control in such case shall include trimming around posts, poles, fence lines and trees.
- (C) Accumulation Of Grass Clippings And Other Debris: No person shall cause or knowingly allow the accumulation or dumping of grass clippings unless said grass clippings are in an enclosed container designed for the purpose of composting that does not produce a noxious odor.
- (D) Abatement Of Nuisance: In the event the Village elects to abate any nuisance for a violation of this section in accordance with the terms and provisions of this chapter, a minimum charge of at least one hundred dollars (\$100.00) per acre or fraction thereof, plus the Village's costs for preparation and recording of said lien shall be assessed. (Ord. 1173, 2-11-2013)

6-4-9: BARBERRY BUSHES:

It shall be unlawful and a nuisance to plant or permit the growth of the bush of the species of tall, common or European barberry, further known as *Barberis vulgaris*, or its horticultural varieties within the Village. (Ord. 1173, 2-11-2013)

6-4-10: POISON IVY AND OTHER NOXIOUS WEEDS:

It shall be unlawful and a nuisance for any person to knowingly permit, allow or maintain any poison ivy or other noxious weed or plant on any lot owned, controlled or leased by such person in the Village. (Ord. 1173, 2-11-2013)

6-4-11: NOISE:

- (A) Definition: When used in this section, "loud noise" shall mean any sound which because of its volume level, duration and character, annoys, disturbs, injures or endangers the comfort, health, peace or safety of reasonable persons of ordinary sensibilities within the limits of the Village. As provided in this section, prohibited acts may be established both or either by the testimony of persons who heard the loud noise and by recorded decibel levels.
- (B) General Prohibitions: It shall be unlawful for any person to make, continue, or cause to be made or continued or to allow to be made on the premises under the person's ownership or control, any loud noise.
- (C) Specific Prohibitions: The following are declared to be loud noises in violation of this section:
1. Sound Reproducing Devices: The use, operation, or permitting to be played, used, or operated of any musical instrument, machine, or electronic device, speaker, or other objects for the producing or reproducing of sound in such a manner as to constitute a loud noise with louder volume than is necessary for the convenient hearing of the person or persons who are in the immediate area where such device is being operated and who are voluntary listeners.
 2. Loading, Unloading, And Opening Containers: The creation of loud noise in connection with loading or unloading any vehicle or the opening and destruction of any containers.
 3. Construction: Any violation of section 4-1-6 of this Code.
 4. Domestic Power Tools: The operation of any mechanically powered saw, drill, sander, grinder or other tool, lawn or garden tool, lawn mower, or similar device used outdoors or indoors between the hours of nine o'clock (9:00) P.M. and seven o'clock (7:00) A.M. as to be plainly audible across property boundaries or through partitions common to two (2) separate dwelling units.
 5. Blowers: The operation of any noise creating blower, power fan, or any internal combustion engine between the hours of nine o'clock (9:00) P.M. and seven o'clock (7:00) A.M., the operation of which causes noise due to the explosion of gases, fuels, or fluids, provided that the loud noise can be heard across property line of the property from which the loud noise emanates.
 6. Yelling And Shouting: Yelling, shouting, or other similar noise emanating from a person that is a loud noise.
 7. Horns And Signaling Devices: Operating a horn or other audible signaling device on any motor vehicle that constitutes a loud noise.
 8. Noisy Parties Or Gatherings: Hosting any party or gathering between the hours of ten o'clock (10:00) P.M. and seven o'clock (7:00) A.M. Monday through Thursday and eleven o'clock (11:00)

P.M. and seven o'clock (7:00) A.M. Friday, Saturday and Sunday which constitutes a loud noise that is plainly audible across property boundaries or between partitions common to two (2) separate dwelling units.

9. Motor Vehicles: The operation of a motor vehicle which causes excessive noise as a result of a defective or modified exhaust system or as a result of an unnecessary rapid acceleration or deceleration, engine revving, or tire squealing and the operation of audio equipment in a vehicle which is plainly audible within twenty five feet (25') of the vehicle.
10. Stationary Source: It shall be unlawful for any person to cause the sound pressure level to exceed the limits listed below at any point on the boundary of the property where the person is located.
 - (a) If a person is located within a residential zone: Fifty five (55) dBA at all times.
 - (b) If the person is located within a commercial zone: Sixty five (65) dBA at all times.
 - (c) If the person is located within an industrial zone: Seventy (70) dBA at all times.
 - (d) If the property boundary lies between two (2) zones the lower limits shall apply regardless of the zone in which the person creating the noise is located.

(D) Exemptions: The following shall be exempt from enforcement under this section:

1. Loud noise caused by emergency or public works vehicles or in the performance of emergency work for the immediate safety, health, or welfare of the community or individuals of the community or to restore property to a safe condition.
2. Outdoor gatherings provided that a permit has been issued by the Village for such gathering.
3. Snowblowers, snow removal machinery, emergency generators during power outages that have mufflers, Municipal street sweeping and landscape operations conducted on golf courses.
4. Reasonable activities conducted on public or private property, which is conducted in accordance with the permitted use for such property, such as schools, churches, entertainment events, provided however that such activities cease by eleven o'clock (11:00) P.M. each day. (Ord. 1228, 6-22-2015)

6-4-12: PENALTIES:

- (A) Penalty: Whosoever violates or fails to comply with any of the provisions of this chapter, shall be guilty of an offense and fined not less than one hundred dollars (\$100.00) nor more than seven hundred fifty dollars (\$750.00). A separate offense shall be deemed committed for each day during or on which a violation occurs or continues. Except when fines and costs are paid by compromise payment as provided in subsection (B) of this section prior to court, the Circuit Clerk shall add to the fine any and all costs and fees upon an authorized disposition.
- (B) Compromise Payment: In the event the Beecher Police elect to charge any individual under a compromise citation as set forth hereinafter, any such person accused of a violation of this chapter and originally charged under this section may settle and compromise said claim without a court appearance by payment of one-half ($\frac{1}{2}$) of the minimum required fine to the Village within ten (10)

business days of the date of violation if the compromise box designation is so checked on the complaint and notice to appear form. (Ord. 1228, 6-22-2015)

VILLAGE OF BEECHER, ILLINOIS

JOB DESCRIPTION – CODE COMPLIANCE OFFICER

POSITION: PART-TIME

REPORTS TO: VILLAGE ADMINISTRATOR

SUMMARY:

The Code Enforcement Officer inspects and enforces all property maintenance and zoning laws and certain municipal ordinances pertaining to nuisances and licensing.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Other duties may be assigned.

- Inspects sites for zoning or property maintenance code compliance as a result of complaints by residents, as direct assignments by supervisor, or as self-initiated.
- Documents all violations in written and photographic form for use in the enforcement process as needed along with processing complaints and preparing for court with the Village Prosecutor.
- Coordinates with other affected Village Departments and prepares reports as needed.
- Notifies property owners of violations and works with them to effect compliance. Follow-up with complainant when applicable to keep them apprised of status.
- Responds to all verbal and written messages from residents and contractors regarding zoning and property maintenance matters.
- Enforces Village Codes pertaining to licenses, contractors and nuisances.
- Prepares concise reports regarding each case; files, enters information in computer and prepares legal notices and citations.
- Comply with all Village policies, protocols, and procedures.
- Perform other duties as assigned.

SUPERVISORY RESPONSIBILITIES:

Position does not have supervisory responsibilities.

QUALIFICATION REQUIREMENTS:

To perform this job successfully, the individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations shall be made to enable individuals with disabilities to perform the essential functions. A valid Illinois State Driver's License is required.

EDUCATION/EXPERIENCE:

Work requires knowledge of a specific vocational, administrative, or technical nature which may be obtained with a two-year associate's degree, diploma or equivalent from a college, technical, business, vocational, or correspondence school. Appropriate certification may be awarded upon satisfactory completion of advanced study or training. One to three years of experience in the inspection field is required. Must become certified in the I.C.C. Property Maintenance Code within one (1) year from the date of hire.

LANGUAGE SKILLS:

Ability to read, analyze, and interpret complex documents including blueprints, site plans, surveys, and elevation plans. Ability to respond effectively to citizen inquiries or complaints. Ability to make effective and persuasive speeches and presentations on controversial or complex topics to top management, public groups, and/or commissions.

MATHEMATICAL SKILLS:

Ability to add and subtract numbers and to multiply and divide. Ability to perform these operations using units of weight measurement, volume, and distance. Ability to calculate figures and amounts such as proportions, percentages, and area.

REASONING ABILITIES:

Ability to define problems, collect data, establish facts, and draw valid conclusions.

PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations shall be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to talk or hear. The employee frequently is required to stand and walk indoors or outdoors in all weather conditions. The employee is also required to sit and work at a desk for up to several hours.

The employee must occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision, distance vision, peripheral vision, depth perception, and the ability to adjust focus.

WORK ENVIRONMENT:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations shall be made to enable individuals with disabilities to perform the essential functions. The noise level in the work environment is usually moderate. The noise level in the work environment can at times be exceptionally loud. Extensive use of computers, video displays, and keyboards as required. The position often works in a vehicle.

SAFETY:

All employees are expected, as a condition of employment, to adopt the concept that the safe way to perform a task is the most efficient and the only acceptable way to perform it. Safety adherence of performance will be considered an important measure of employee performance evaluation. As such, the employee must:

- Comply with established safe working rules.
- Report all accidents and injuries immediately, and cooperate in all accident and injury investigations, supplying full and complete information.
- Submit recommendations for safety and efficiency, as well as report defective equipment and unsafe conditions.
- Know their exact duties in the event of a fire or catastrophe.
- Provide public protection from unsafe conditions and hazards.

MEMORANDUM

TO: Village President and Board of Trustees

FROM: Robert O. Barber, Village Administrator



DATE: 2/19/20

RE: PARTICIPATION IN CS2 PROGRAM

Through the Metropolitan Mayors Caucus the Village participated in the CS2 bid process for all of its electrical accounts. When bids were opened, a 15 year offer was made at 30% below Com Ed market rates. However, the analysis revealed that through the NIMEC cooperative the Village's electric rate averages to \$0.05096 and the solar option can only get our price down to \$0.05163. Since it is a 15 year rate it may be advantageous to lock in these prices but it is also variable on Com Ed's rates. Energy advisors at NIMEC state that new pricing for the 2020-2023 timeframe (which we will be going out to bid for in March) will be even lower than the current NIMEC pricing. Therefore, the decision was made to remain in the NIMEC pool. The Mayors Caucus agreed with our analysis. Please see the enclosed report.

THE POWER BUREAU, LLC

ENERGY PLANNING & PROCUREMENT

February 10, 2020

TO: Robert Barber, Village Administrator, Village of Beecher

FROM: Mark Pruitt, Principal, The Power Bureau
Manager, Community Solar Clearinghouse Solution (CS²) Program

SUBJECT: Community Solar Subscription Offers for the Village of Beecher through the CS² Program

CC: Edith Makra, Director of Environmental Initiatives, Metropolitan Mayors Caucus

Thank you for your participation in the CS² Program sponsored by the Metropolitan Mayors Caucus. I am pleased to provide you with the attached report which details the Community Solar Subscription options available to serve your municipal accounts through the CS² Program. **The report identifies how the Village can support the deployment of over 750 solar panels in the ComEd service region – at nearly the same price as your current retail supplier – with Community Solar.**

Background. The Future Energy Jobs Act (FEJA) allows Illinois consumers to support local renewable energy development by sharing (or “Subscribing to”) large solar projects that are not physically connected to their facilities. A Community Solar Subscription does not deliver solar energy to your utility accounts. Instead, a Subscriber is entitled to a share of the output from a Community Solar project. ComEd converts the Subscriber’s share of Community Solar generation into Bill Credits which are applied to each monthly ComEd bill yielding a lower cost. In return for the Bill Credits, the Subscriber pays a Subscription Fee to Community Solar project owner. A Subscriber realizes net cost savings when the Bill Credits they receive are worth more than the Subscription Fee they pay the Community Solar project owner.

The CS² Program was created to assist municipalities secure cost-effective Community Solar Subscriptions. To ensure cost savings, the CS² Program identifies which accounts can achieve cost savings and then matches those accounts with Community Solar projects. The Subscription Agreements negotiated through the CS² Program allow municipalities to pay for their Subscriptions by sharing their Bill Credits with the Community Solar project owner – a structure that guarantees that the municipality always achieves a cost savings.

Initial vs. Current CS² Program Design. The CS² Program has already helped eight (8) municipalities secure Subscriptions from the Pilot Community Solar project in Elgin – the first Community Solar project funded under FEJA. That experience highlighted a few challenges for the CS² Program:

- **Franchise Accounts will not benefit from Subscriptions.** Franchise Accounts are municipal accounts that receive a monthly ComEd bill where all costs are zeroed out by a credit labeled “Ordinance Consideration”. During the enrollment of the Pilot Project Subscriptions, ComEd has determined that every dollar in Community Solar Bill Credits for Franchise Accounts will result in a dollar reduction in Ordinance Consideration credits. This treatment negates the financial benefits of Subscriptions for Franchise Accounts. As a result, the CS² Program does not recommend that municipalities enroll Franchise Accounts with Subscriptions.

- **Non-Metered Accounts cannot be enrolled for Subscriptions.** ComEd will not apply Subscription Bill Credits to accounts without meters (e.g., traffic lighting). As a result, the CS² Program has removed unmetered accounts from Eligible Account status.
- **Single Billing for Subscriptions cannot be automated.** ComEd has not been unable to consistently transfer electronic billing data for the that were Subscribed to the Pilot Community Solar project. This prevents the CS² Program from automating a billing process that would allow municipalities to receive and pay a single bill for their Subscribed accounts. As a result, the CS² Program has restructured the Subscription Offers with a dual bill payment process where the municipality will receive one monthly bill directly from ComEd that reflect 100% of all Bill Credits, and a separate bill from the Community Solar project owner (or their representative) for the Subscription fee.

While these challenges somewhat reduce the scale of Community Solar opportunities for some municipalities, we maintain that Community Solar Subscriptions remain the easiest way for municipalities to make meaningful contributions to the deployment of renewable energy resources in the ComEd region.

Subscription Offers. The CS² Program has negotiated two Community Solar Subscription options for municipalities. Details concerning the offers are provided in the report.

- **Standard Subscription.** The Standard Subscription allocates 10% of all Bill Credits to the municipality over a 20-year term. The Standard Subscription Agreement can be terminated with no penalty with ninety-days' notice; and,
- **Special Subscription.** The Special Subscription allocates 30% of all Bill Credits with the municipality over a 15-year term. The Special Subscription Agreement does apply a pro-rated termination fee that only applies if replacement Subscribers cannot take the place of terminated Subscriptions (a service that the CS² Program will provide to assist municipalities).

Subscription Opportunity Analysis Results. The following table conveys the results of our analyses of the potential for Subscriptions for the portfolio of utility accounts identified by your municipality.

Table 1: Community Solar Subscription Opportunity Analysis for Village of Beecher

Eligible Account Analysis		
Annual Consumption for All Municipal Accounts	Annual Consumption for Eligible Accounts	Eligible Accounts Consumption as % of Total Consumption
1,624,726 kWh	354,195 kWh	22%
Eligible Account Energy Supply Cost Analysis		
Annual Cost for Eligible Accounts under Current Supply Arrangements	Annual Cost for Eligible Accounts with Standard Subscriptions	Annual Cost for Eligible Accounts with Special Subscriptions
\$18,050	\$22,281	\$18,289
Eligible Account Sustainability Analysis		
# Community Solar Projects supported by Eligible Accounts	Number of 250-watt Solar Panels Supported by Eligible Accounts	New Solar Capacity supported by Eligible Accounts
9.2% of 1 Community Solar Project	752	183 kW

- **Eligible Account Analysis.** The CS² Program only serves Eligible Accounts – accounts that are in the Small Commercial, Watt-Hour, or Commercial General Lighting customer classes and served on the ComEd Fixed Default rate. The Eligibility Analysis identified the volumes of annual electricity consumption for your municipal accounts that may participate in the CS² Program.

- **Energy Supply Cost Analysis.** The Energy Supply Cost Analysis compared the current energy supply cost for each Eligible Account with the projected net energy supply cost if the account was served by the ComEd Fixed Default Rate and a Standard or Special Subscription. You may consider Subscriptions for some or all of your Eligible Accounts, and you may select different Subscriptions for your Eligible Accounts as well.
- **Renewable Energy Impact.** The Sustainability Analysis identified the impact that Subscribing all Eligible Accounts with either a Standard or Special Subscription would have on renewable energy development in the ComEd region. Please note, the right to claim the 'clean' or 'solar' energy from Community Solar Subscriptions belongs to ComEd - which is paying for the Renewable Energy Credits (REC's) generated by the Community Solar projects. The sale of RECs to ComEd helps to finance Community Solar development. The REC's generated by Community Solar projects supported by your Subscriptions are applied to the State of Illinois Renewable Energy Portfolio Standard which sets a statewide goal of 25% renewable energy by 2025. So, while you may not claim that the facilities you Subscribe to Community Solar are powered by solar energy – you may claim that your Subscription is supporting the development of clean energy in Illinois and helps meet the state's renewable energy goals.

Recommendations. The above analyses indicate that your municipality can provide meaningful support for new solar development in Illinois with Community Solar. To maximize the benefits of the CS² Program, we recommend that you consider the following:

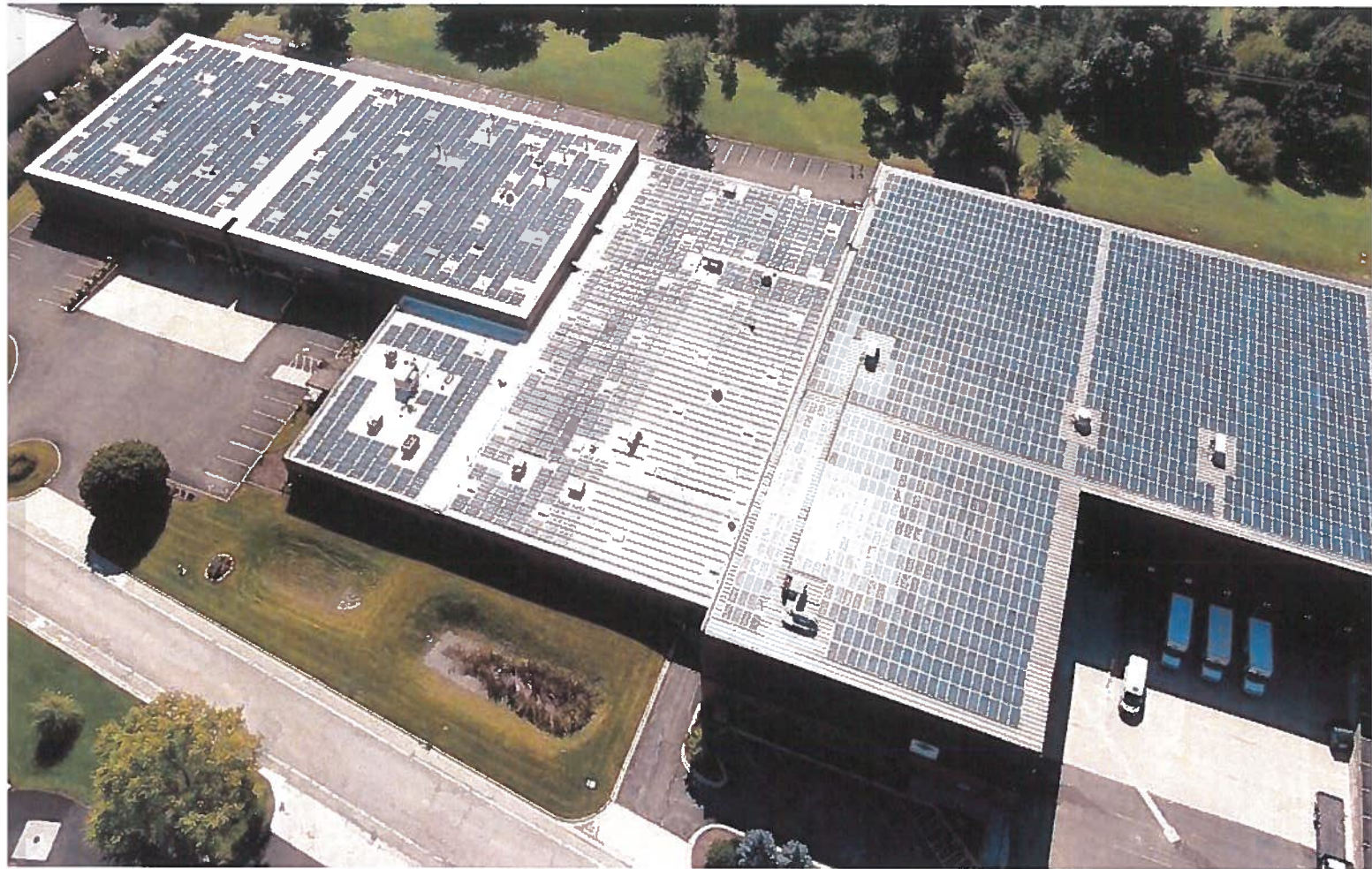
- **Enroll Eligible Accounts served by Retail Supply in a Special Subscription.** Secure Special Subscriptions for your small accounts served by a retail electricity supplier now and allow those accounts to automatically revert to the ComEd Default Fixed Service (there is no charge for this change). Once the accounts are served under the ComEd Default Fixed Service, the Subscription Bill Credits will commence. This approach will yield a net electricity price that is slightly above the electricity supply price reported for the retail supply contracts with Dynegy and Constellation.

NOTE: Pricing from retail electricity suppliers is driven by the largest municipal accounts. Eligible Accounts are all small accounts, so removing them from your future retail energy supply bids will not have a negative impact on pricing for the remaining accounts. Please contact me directly if your municipality would like assistance from the CS² Program to solicit competitive prices offers from retail electricity suppliers.

In closing, I encourage you to consider the following while reviewing your report:

- **Did We Analyze Every Account?** Please notify me if anything has changed with the accounts identified in your report (e.g., new retail supply contract pricing, account closures, etc.), or if you more accounts should be analyzed.
- **Limited Supply Rewards Early Adopters.** The supply of Subscriptions through the CS² Program is limited, and Subscriptions will be allocated to municipal accounts on a first come, first served basis. We encourage municipalities interested in securing Subscriptions through the CS² Program to take the necessary next steps to reserve their position by following the checklist included in Figure 13 of your report.
- **Success Depends on Municipalities.** Community Solar projects are financed with FEJA incentives, federal tax credits and the sale of Subscriptions. Revenue from Subscriptions provides the incremental revenue necessary to fully fund the development of a community solar project. **In other words, Community Solar projects cannot be financed without committed and creditworthy Subscribers - making the participation of local governments a vital part of the success of Community Solar in Illinois.**

Thank you for your continued interest in the CS² Program, and please contact me directly should you wish to discuss these or any other aspects of the CS² Program.



Community Solar Subscription Offers for the Village of Beecher



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Details on the Special Subscription Offer	14
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Attachment A:	Municipal Account Portfolio
Attachment B:	Municipal Account Analysis
Attachment C:	Standard Subscription Agreement (Municipality Saves 10% of Bill Credits)
Attachment D:	Background on Developers Providing Standard Subscriptions
Attachment E:	Billing Services Agreement for Standard Subscriptions
Attachment F:	Special Subscription Agreement (Municipality Saves 30% of Bill Credits)
Attachment G:	Background on Developer Providing Special Subscriptions
Attachment H:	Model Letter of Intent to Enter Subscription Agreements through CS ² Program
Attachment I:	Model Resolution Adopting Subscription Agreement
Attachment J:	Illinois Shines Program Brochure
Attachment K:	Frequently Asked Questions

Cover Photo Credit: The cover photo was printed in the 10/18/2019 edition for the Daily Herald for the news item “First Solar Project of its Kind in the State Lights Up Elgin”, photo credited to Ken Buckman. The Elgin Project is the first Community Solar project to which the CS² Program assisted in the placement of Subscriptions with members of the Metropolitan Mayors Caucus.

THIS PRESENTATION REPRESENTS A SUMMARY OF THE COMMUNITY SOLAR SUBSCRIPTIONS AS OF February 10, 2020. THE EXAMPLES, CHARTS, FEES, AND COMPARISONS HEREIN ARE ILLUSTRATIVE OF THE SUBSCRIPTION OFFERS THAT MAY BE AVAILABLE TO ELIGIBLE ACCOUNTS AND SUBJECT TO CHANGE. ACTUAL TERMS OF THE SUBSCRIPTION AGREEMENT WILL BE PRESENTED SEPARATELY. YOUR ENROLLMENT IN ILLINOIS SHINES MUST BE ACCEPTED BY THE UTILITY AND THE COMMUNITY SOLAR PROVIDER. SUBJECT TO AVAILABILITY. ALL MATERIALS ARE CONFIDENTIAL AND SHALL NOT BE DISTRIBUTED.

EXECUTIVE SUMMARY

The Metropolitan Mayors Caucus (“MMC”) is assisting municipalities access to Community Solar projects under development in Illinois through the Community Solar Clearinghouse Solution (“CS²”) Program. This report presents the Village of Beecher with cost-effective Community Solar Subscription options for Eligible Accounts that serve Village facilities.

WHAT IS COMMUNITY SOLAR? Community Solar refers to solar projects that are shared by multiple consumers (called “Subscribers”). Subscribers may subscribe (a “Subscription”) to a Community Solar project and receive Bill Credits on their monthly electricity bills for their portion of the power produced by the Community Solar project. Community Solar provides Subscribers with access to benefits of solar without the challenges associated with installing rooftop solar:

- **No Upfront Costs.** Subscribers make no investment or up-front payments.
- **No Installation.** Subscribers are not required to install solar panels on their facilities.
- **No Maintenance.** Subscribers avoid the cost and effort of maintaining a rooftop installation.

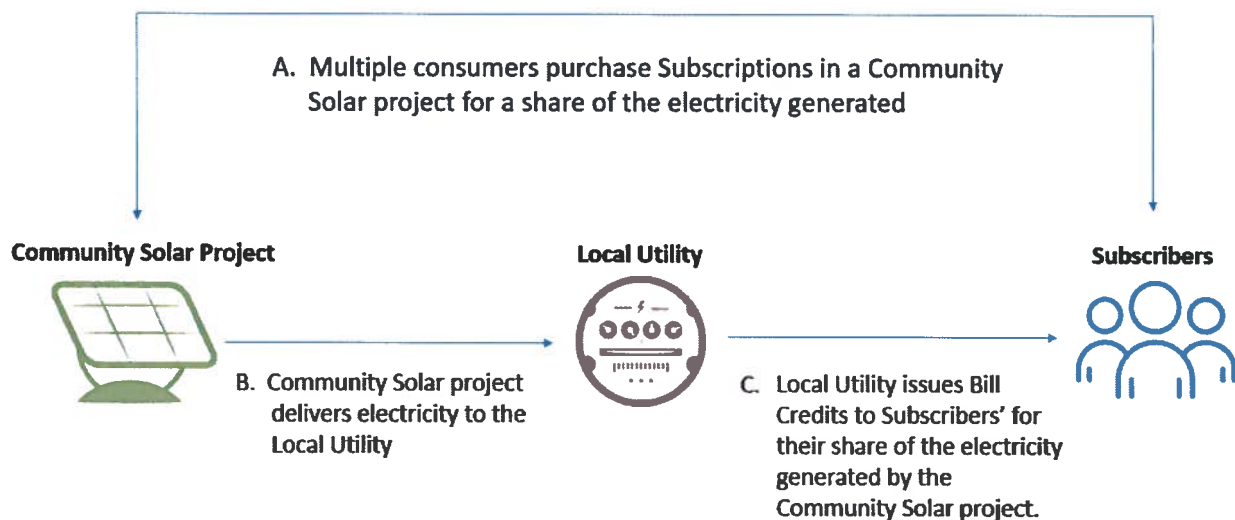
Figure 1 conveys the structure of a Community Solar Subscription in Illinois.

WHAT IS THE CS² PROGRAM? The purpose of the CS² Program will structure and present Community Solar Subscription options for Illinois municipalities that provide:

- **Long-Term and Guaranteed Cost Savings.** Subscriptions for Eligible¹ accounts through the CS² Program guarantees a 10-30% discount on the credits applied toward the energy supply cost charged by the utility. Subscriptions could result in the lowest energy supply costs available in the market - even lower than supply offers from retail energy suppliers, but without the teaser rates.
- **Support for Additive Renewable Energy.** Subscriptions for Eligible Accounts through the CS² Program are sourced from new Community Solar projects located in Illinois. Subscribing to these community solar projects allows municipalities to make their own meaningfully contributions to the statewide Renewable Portfolio Standard goal of 25% renewable energy by 2025.

Figure 2 conveys the projected cost impact of Subscriptions for the Eligible Accounts identified in Attachment A.

FIGURE 1: COMMUNITY SOLAR STRUCTURE IN ILLINOIS



¹ “Eligible Accounts” are municipalities’ small utility accounts on the Default Supply Service Rate with the utility.

FIGURE 2: POTENTIAL ANNUAL COST SAVINGS THROUGH THE CS² PROGRAM

Program Options	Current Total Energy Supply Cost (Energy + Capacity + Transmission)			Total Energy Supply Cost with Standard Subscription (Energy + Capacity + Transmission + Bill Credits)			Total Energy Supply Cost with Special Subscription (Energy + Capacity + Transmission + Bill Credits)		
	Annual Volume (kWh)	Average Unit Price (\$/kWh)	Annual Cost	Annual Volume (kWh)	Average Unit Price (\$/kWh)	Annual Cost	Annual Volume (kWh)	Average Unit Price (\$/kWh)	Annual Cost
Subscription Eligible Accounts - Accounts that can be enrolled in the CS ² Program for Community Solar Subscriptions	354,195	\$0.05096	\$18,050	354,195	\$0.06291	\$22,281	354,195	\$0.05163	\$18,289
TOTALS/AVERAGES	354,195	\$0.05096	\$18,050	354,195	\$0.06291	\$22,281	354,195	\$0.05163	\$18,289
ANNUAL COST SAVINGS/PREMIUM (\$)						-\$4,231			-\$239
ANNUAL COST SAVINGS/PREMIUM (%)						-23.4%			-1.3%

WHY THE CS² PROGRAM WORKS FOR MUNICIPALITIES.

The CS² Program provides specific advantages to municipalities that are interested in cost reduction and supporting local renewable energy development:

- **Simplicity.** The CS² Program analyzes accounts, conducts competitive procurements, negotiates contract terms and conditions, facilitates the enrollment process, and monitors billing and savings for participating municipalities.
- **Municipal-Focus.** The MMC sponsors the CS² Program to support the economic and sustainability goals of municipalities. The CS² Program represents the interest of municipalities – not Community Solar project developers.
- **Economies of Scale.** By pooling the purchasing power of many municipalities, the CS² Program reduces the time, risk and cost of negotiating Community Solar Subscriptions on your own.
- **Process-Driven.** The CS² Program uses a structured and transparent procurement process to ensure that Subscriptions are sourced from the most experienced, capable, and cost-competitive Community Solar project developers.
- **Access to Inventory.** The CS² Program has secured firm Subscription pricing offers from twenty-nine (29) Community Solar projects throughout Illinois.
- **Local Expertise.** The CS² Program is managed by experienced energy professionals with deep knowledge of renewable energy development and energy supply contracting to negotiate Subscription terms that protect municipal interests.
- **Practical Experience.** The CS² Program negotiated the Subscriptions for the first Community Solar project in Illinois funded under the Future Energy Jobs Act (see page 6 for details). Based on this experience, the CS² Program has first-hand knowledge of the account enrollment requirements and processes for Community Solar subscriptions.
- **Third-Party Validation.** The CS² Program received the 2019 '3iAward' from the Interstate Renewable Energy Council (IREC). Working with the CS² Program allows municipalities to participate in an initiative that has been recognized by a leading national sustainability organization.
- **Additional Clean Energy Options.** Utility tariffs provide higher Bill Credits for small utility accounts and lower Bill Credits for larger accounts. The CS² Program provides Subscriptions only for small accounts to ensure cost savings for municipalities. Upon request, the CS² Program can also assist municipalities in purchasing competitively priced 100% Green Power Supply for their larger accounts.

Section 1: Background

- Energy Supply Options
- Community Solar
- CS² Program

BACKGROUND

Like all ComEd customers, municipalities have a range of electricity supply options to consider for the accounts that serve their municipal facilities. By exercising these options, municipalities can choose electricity supply based on price, price stability, renewable energy content, or other criteria.

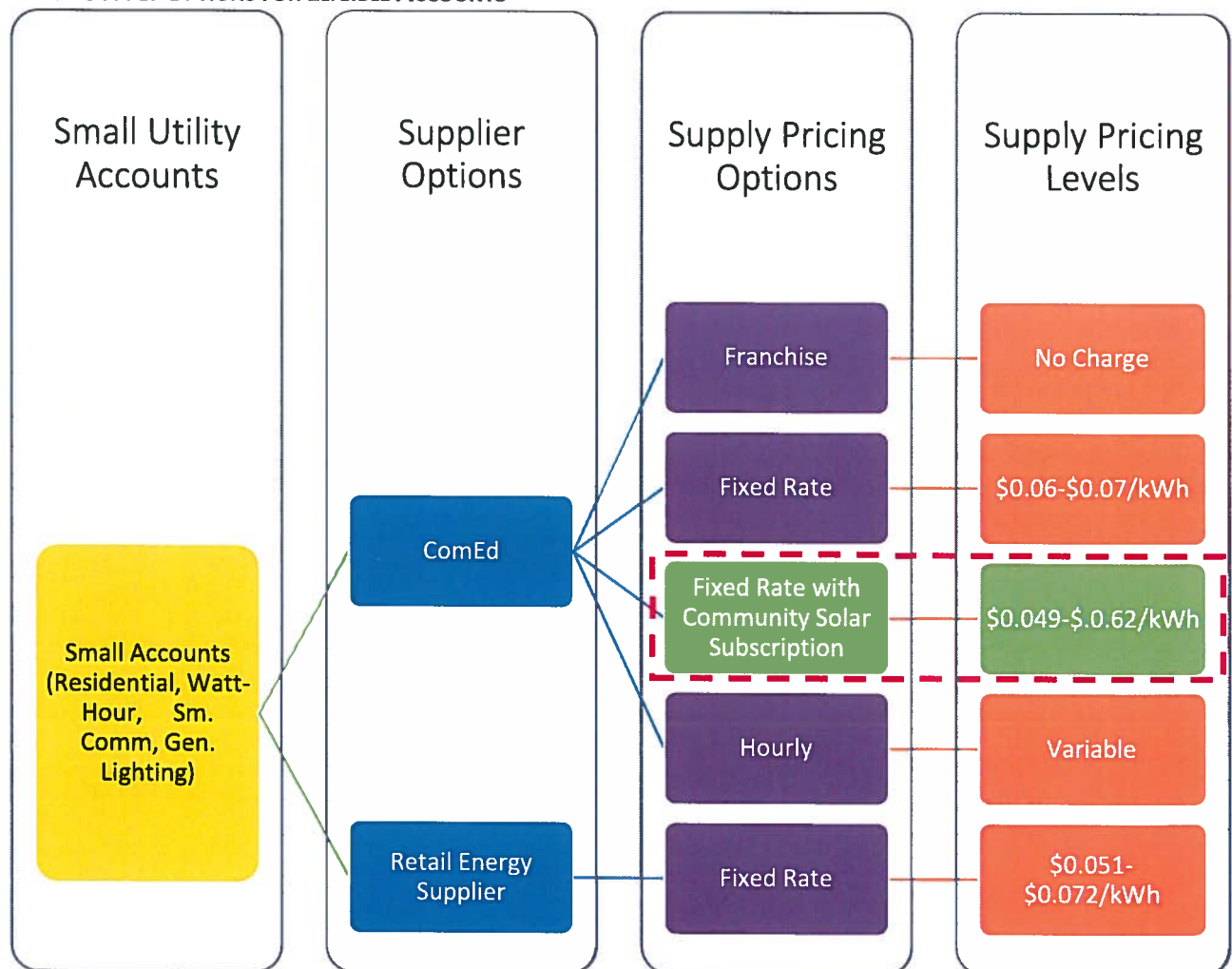
While municipalities do control some very large electricity accounts (e.g., water pumping stations), most municipal accounts fall into the small utility account category. Figure 3 conveys the electricity Supplier and Supply Pricing Options available to municipalities along with the relative Supply Pricing Levels of those options in today's market.

Traditionally, the electricity Supply Pricing Options for municipalities included those highlighted in purple in

Figure 3: Franchise (municipal accounts receiving electricity at no charge from the utility in consideration for use of rights of way within the municipal borders), Fixed Rate (accounts are charged a set \$/kWh rate by either ComEd or a retail energy supplier) and Hourly (accounts are charged a variable supply rate that changes every hour).

Changes in state law have created a new Supply Pricing Option for consumers – Community Solar Subscriptions (green highlighted area of Figure 3). Community Solar Subscriptions provide a significant discount to the ComEd Fixed Rate Supply Pricing Option through a Bill Credit process, and support the development of new solar projects in Illinois. The CS² Program was created to assist municipalities assess how use Community Solar subscriptions to support new solar development while capturing cost savings.

FIGURE 3: SUPPLY OPTIONS FOR ELIGIBLE ACCOUNTS



[COMMUNITY SOLAR](#). The Future Energy Jobs Act (“FEJA”) created incentives for the development of Community Solar projects in the ComEd, Ameren Illinois and MidAmerican Energy service regions in Illinois. The incentives included the purchase of Renewable Energy Credits (“RECs”) generated by Community Solar projects for a 15-year period and a smart inverter rebate.

The FEJA incentives attracted dozens of community solar project developers to Illinois. These developers identified over 1,770 MW of potential community solar projects. In 2019, the Illinois Power Agency (“IPA”) administered a lottery process to award REC contracts for roughly 214 MW of community solar project capacity. Figure 4 maps the locations of the community solar projects that received REC contracts through the IPA lottery process.

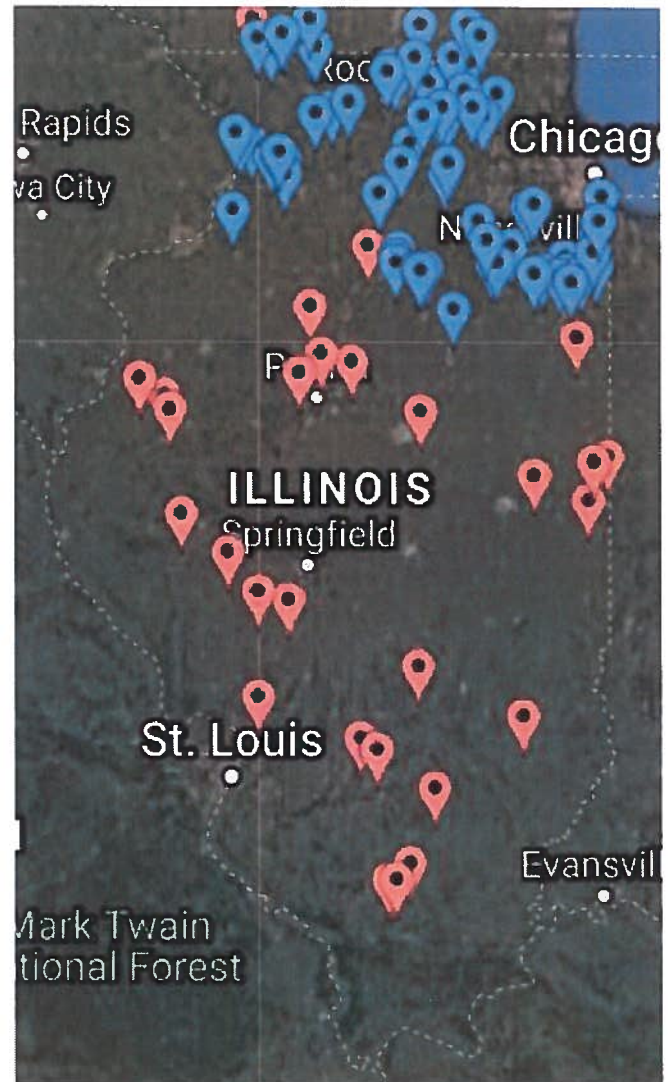
The developers that were awarded FEJA incentives will secure construction financing and operation with revenues generated by the FEJA incentives, federal tax credits and enrollment of Subscriptions. Revenue from the enrolled Subscriptions provides the incremental revenue necessary to fully fund the development of Community Solar projects. **In other words, Community Solar projects cannot be financed without committed and creditworthy Subscribers.**

[COMMUNITY SOLAR SUBSCRIPTION ECONOMICS](#). Subscriptions deliver savings when the cost of the Subscription is less than the value of the Bill Credits generated by the Subscription.

- **Subscription Price.** The price of a Subscription must be sufficient to cover project financing and operating costs that are not met by tax credits and other incentives.
- **Subscription Value.** The value of a Subscription’s Bill Credits is set by utility tariff and varies according to account size and energy supplier.

The CS² Program has identified the follow regarding the value of Subscriptions for different account types served by ComEd:

FIGURE 4: COMMUNITY SOLAR PROJECTS IN ILLINOIS



- Small Accounts served on a ComEd Fixed Rate receive Bill Credits worth the sum of the Purchased Energy Supply plus the Purchased Electricity Adjustment (approximately \$0.055/kWh).
- Accounts served on the ComEd Hourly Rate receive Bill Credits worth the wholesale hourly supply rate (Approximately \$0.025-\$0.030/kWh).
- Franchise Agreement accounts do not realize any bill credit value (ComEd has determined that Subscription Credits for these accounts will be offset by reductions in Franchise compensation).
- All accounts served by Retail Energy Suppliers will receive Bill Credits at a value determined by the

Metropolitan Mayors Caucus: CS² Program for Community Solar

Retail Energy Supplier - likely the wholesale energy supply rate of between \$0.025 and \$0.030/kWh.

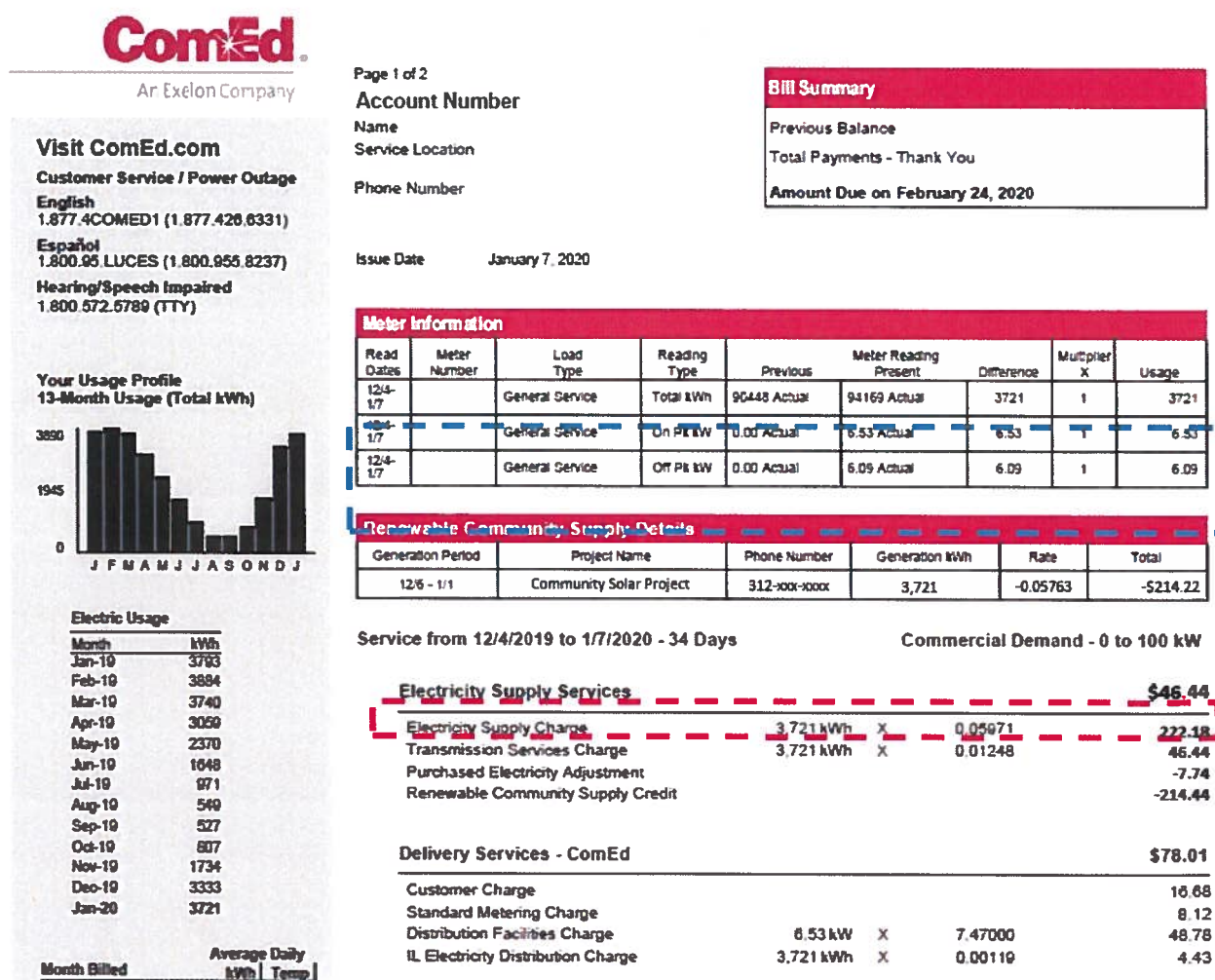
Based on this analysis, small accounts served under ComEd Fixed rates (e.g., Residential, Watt-Hour, Small Commercial, General Lighting) provide the highest value for Subscribers and are eligible to participate in the CS² Program.

HOW CS² PROGRAM SUBSCRIPTIONS WORK. Figure 5 conveys how ComEd applies Bill Credits to a Subscribers' monthly bill. First, ComEd details concerning the Subscriber's share of generation from the Community Solar project during the billing cycle is presented (see the area of bill highlighted in blue

dashed box). The sample bill shows a situation where the Subscription volume matches the monthly consumption; however, Subscription volumes will vary from month to month depending on the actual level of generation. Then, ComEd applies Bill Credits for the Subscription volumes in the Electricity Supply services of the bill (see the area with red box). The Bill Credits reduce the total amount due for the Energy Supply Services portion of the bill only and provides a guaranteed discount for the municipality.

Please note, Subscriptions through the CS² Program are structured to allow municipalities to receive 100% of the Bill Credits issued by ComEd, and then pay the

FIGURE 5: HOW COMMUNITY SOLAR SUBSCRIPTION BILL CREDITS APPEAR ON YOUR COMED BILL



Metropolitan Mayors Caucus: CS² Program for Community Solar

Community Solar project owners their share of the Bill Credits through a separate billing process.

CS² PROGRAM BY THE METROPOLITAN MAYORS CAUCUS.

The Board of the Metropolitan Mayors Caucus (MMC) approved the creation of the Community Solar Clearinghouse Solution (CS²) Program to assist members secure Subscriptions. By providing the services noted in Figure 6, the CS² Program serves municipalities by providing:

- **Immediate Access to a Limited Supply of Community Solar projects.** The CS² Program has secured commitments from 24 of only 78 Community Solar projects under development in the ComEd region to serve municipalities.
- **Opportunities to Support Renewable Energy development.** By Subscribing through the CS² Program, municipalities can directly support progress toward the statewide Renewable Energy Standard goal of 25% renewable energy by 2025.
- **Cost Savings in 2020.** The CS² Program provides access to Subscriptions that will begin delivering Bill

Credits from new Community Solar projects in the 3rd and 4th quarter of 2020.

CS² PROGRAM UNIQUE EXPERIENCE. Over the summer of 2019, the CS² Program negotiated Subscriptions for eight (8) municipalities with the owner of the Rainy Solar Project - the first Community Solar project funded through FEJA. The CS² Program negotiated favorable terms and conditions that guarantee long-term cost savings and several innovative and valuable contract terms, including:

- **No Investment Requires.** Municipalities were not required to post advance payments, letters of credit or any other investments to secure their Subscription to the project.
- **Guaranteed Savings/Shared Bill Credit Structure.** Municipalities pay for their Subscriptions by sharing their Bill Credits with the project owner.
- **No Termination Fees.** Municipalities can terminate their Subscriptions for convenience with 90 days' notice and will not pay any termination fees.

Figure 7 conveys the key elements of the Rainy Solar Project located in Elgin Illinois.

FIGURE 6: CS² PROGRAM SERVICES

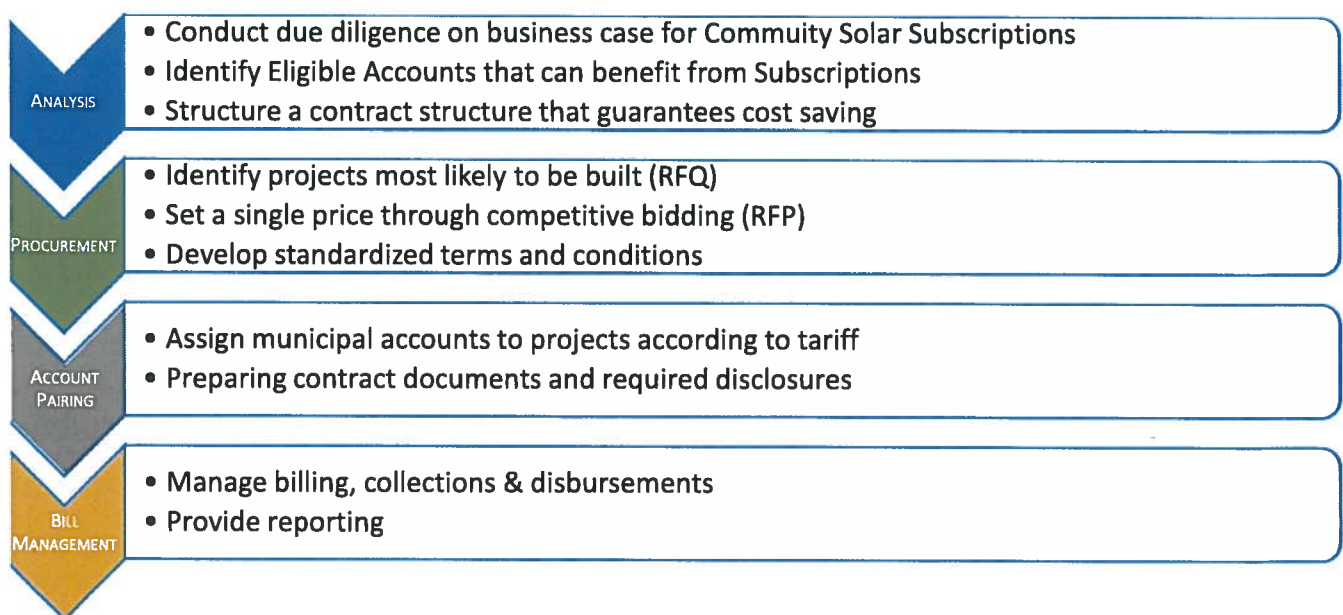


FIGURE 7: FIRST COMMUNITY SOLAR PROJECT FUNDED UNDER FEJA WAS SUBSCRIBED THROUGH THE CS² PROGRAM



Developer	Rainy Solar, LLC	
Location	1111 Davis Road, Elgin, Illinois	
Equipment	3,730 solar photovoltaic panels	
Nameplate Capacity	1.2 MW	
Annual Generation	1,512 MWh	
Energized	October 2019	
Primary Subscribers (Represented by the CS² Program)	Village of Deerfield City of Elgin Village of Glencoe Village of Glenview	Village of Highland Park Village of Lake Bluff City of Lake Forest Village of Oak Park
Contract Duration	20-years	
Special Terms Negotiated by CS² Program	Sharing of ComEd Bill Credits for all parties (10% to municipality, remainder to support program and project operations) No termination fees	

Section 2: CS² Program Offers

- Standard Subscription Offer
- Special Subscription Offer

CS² PROGRAM OFFERS

Utility tariffs prevent many accounts from achieving net cost savings with Subscriptions. To ensure that Subscriptions are considered only for accounts that can realize cost savings, the CS² Program classifies each municipal electricity account into one of the two following Account Groups:

- **Subscription Eligible Accounts.** These are accounts that can receive the highest Bill Credits. For ComEd, an account must receive fixed rate service and belong to one of the following Customer Groups: Residential, Watt-Hour Non-Electric Space Heating, Demand Non-Electric Space Heating, Nonresidential Electric Space Heating, General Lighting. Additionally, utility accounts must have an annual consumption volume that supports at least a 200-Watt Subscription.
- **Subscription Ineligible Accounts.** All other accounts are ineligible for participation in the CS² Program.

Figure 8 conveys the CS² Program options for the Subscription Eligible and Subscription Ineligible Account Groups. The classification of each electricity account identified for your municipality is noted in Attachment A.

The CS² Program has secured Subscription offers from 24 qualified Community Solar projects located in the ComEd region. These Community Solar projects offer different terms through two Subscription Offers:

- **Standard Subscription Offer.** Eight (8) Community Solar projects are provided under a Standard Subscription Offer which allows the municipality to save 10% on all Bill Credits for a period of up to 20 years.
- **Special Subscription Offer.** Sixteen (16) Community Solar projects are provide under a Special Subscription Offer which allows the municipality to save 30% on all Bill Credits for a period of up to 15 years.

The key elements of the Standard and Special Subscription offers are noted in Figure 9.

FIGURE 8: CS² PROGRAM OFFERS FOR DIFFERENT ELECTRICITY ACCOUNT TYPES

ACCOUNT GROUP	ACCOUNT DESCRIPTION	CS ² PROGRAM OPTION	NOTES
Subscription Eligible Accounts	Small Accounts (Served on the Utility Fixed Rate)	Standard Subscription	Accounts may enter a Subscription at any time
		Special Subscription	
	Small Accounts (served by Retail Supplier)	Standard Subscription	Accounts are ONLY eligible when with the Utility Fixed Rate.
		Special Subscription	
Subscription Ineligible Accounts	Large Commercial and Streetlighting Accounts	No Offer through the CS ² Program	These accounts are likely served by a retail supplier. Municipality may request assistance in negotiating a 100% Green Power Supply option
	Franchise Accounts		Franchise accounts generate no net cost reductions for Subscribers
	Hourly Supply Service		Hourly energy service is the lowest cost

Metropolitan Mayors Caucus: CS² Program for Community Solar

FIGURE 9: COMPARISON OF CS² PROGRAM SUBSCRIPTION OFFERS FOR COMED REGION

CHARACTERISTICS	SPECIAL SUBSCRIPTION OFFER (SEE FIGURE 8 FOR FULL LIST OF KEY TERMS)	SPECIAL SUBSCRIPTION OFFER (SEE FIGURE 10 FOR FULL LIST OF KEY TERMS)
Eligible Accounts	Accounts in the following Customer Classes and receiving Fixed Rate Supply are eligible for either the Standard or Special Subscriptions through the CS ² Program: <ul style="list-style-type: none"> ▪ <u>ComEd Accounts</u>: Residential, Watt-Hour Non-Electric Space Heating, Demand Non-Electric Space Heating, Nonresidential Electric Space Heating, and General Lighting 	
Savings on Bill Credits Received by Municipality	10% (guaranteed savings from the ComEd Fixed Default Rate)	30% (guaranteed savings from the ComEd Fixed Default Rate)
Duration of Subscription	20-years	15-years
Projected Annual Value of Bill Credits Saved by Subscriber (25 kW Account, ~61,000 kWh/consumption.)	\$364	\$1,093
Billing Process	1) Utility issues monthly bills to Municipality that include 100% of all Bill Credits. 2) Municipality pays utility for amount due (realizing benefit of 100% of the value of all Bill Credits). 3) Community Solar Owner issues invoice to Municipality is invoiced for Community Solar Subscription: 90% of Bill Credits (with Standard Subscription) or 70% of Bill Credits (with Special Subscription). 4) Municipality issues payment for Community Solar Subscription. 5) Municipality saves either 10% (with Standard Subscription) or 30% (with Special Subscription) of all Bill Credits.	
Investment or Up-Front Fees	\$0	\$0
Early Termination Notice	90 calendar days	90 calendar days
Termination Fee	\$0	\$0 if an eligible replacement customer is identified at notice of termination, otherwise a termination fee will be charged.
Can Subscriptions be transferred to other accounts in the future	Yes	Yes
Location of Community Solar Arrays	Community Solar projects are located throughout the ComEd and Ameren Illinois service regions. Under FEJA and utility tariff, a Community Solar array must be located in the same utility service region as its Subscribers	
Best type of Subscriber	Municipalities that may terminate a Subscription in the near-term or are less interested in maximizing cost savings.	Municipalities that are comfortable with a long-term commitment or are very motivated to achieve cost savings.
Names of Community Solar Owners Providing Subscriptions	Soltage Cenergy Solar Solarstone	Clearway Energy

DETAILS ON THE STANDARD SUBSCRIPTION

The Standard Subscription provides Eligible Accounts with a 10% savings on all Bill Credits for a 20-year term with no termination penalties. Figure 10 conveys the key terms of the Standard Subscription, and a copy of the Standard Subscription Agreement is found in Attachment C to this report.

Standard Subscriptions for a municipality's portfolio of Eligible Accounts will be assigned to Community Solar projects developed by either Soltage, Cenergy, or SolarStone (see Attachment D for background on these Community Solar developers).

ELIGIBILITY. The Standard Subscription is available to any account served by ComEd that meets the following requirements:

- **Municipal Service.** The account must serve an Illinois municipality.
- **Specific Customer Groups.** The account must belong to ComEd Customer Groups (Residential, Watt-Hour Non-Electric Space Heating, Demand Non-Electric Space Heating, Nonresidential Electric Space Heating, General Lighting).
- **Minimum Size.** Accounts must support at least a 200-watt Subscription (roughly 1,000 kWh/yr.).
- **Utility Fixed Rate.** The account must be served under the utility fixed rate. Subscription Eligible accounts currently receiving service from a retail supplier may enroll in a Standard Subscription so long as the account is moved to ComEd Default Rate Service by the time the Community Solar project is energized later in 2020.
- **Metered.** The account must have a Smart meter.
- **Non-Franchise.** The account may not receive a zero bill ("Ordinance Consideration") by the utility.

BILLING. With the Standard Subscription, the Subscriber receives 100% of all Bill Credits on their monthly utility bill. Then the Subscriber will be responsible to issue a payment to the Community

Solar project owner equal to 90% of the Bill Credits received.

COST IMPACT. The Standard Subscription delivers a 10% savings on the Bill Credits received by the Subscriber – with the basis of the Bill Credit being the net price of the utility Purchased Electricity Charge and the Purchased Electricity Adjustment. The CS² Program has provided a projection of cost impacts associated with securing Subscriptions for all eligible municipal accounts in Attachment B.

SUSTAINABILITY. The renewable attributes ("RECs") generated by of the community solar projects participating in the CS² Program will be sold to ComEd through the IPA's Adjustable Block Program. Selling the RECs to ComEd reduces costs for Subscribers. Subscriptions through the CS² Program do not entitle Subscribers to claim that they are using "renewable energy". Instead, Subscribers are advised that the energy generated from the community solar projects has been created from the sun, and that by subscribing to community solar projects that they are supporting the development of new solar power in northern Illinois.

BEST FIT FOR CUSTOMERS. The Standard Subscription is the best option for municipalities with:

- **Lower Risk Tolerance.** Municipalities that may terminate their Subscription at some point in the near future.
- **Less Price Sensitivity.** Municipalities that are less sensitive to generating cost savings.

TIMING. Subscription volumes are limited, so municipalities are strongly encouraged to submit a Letter of Intent to Subscribe as soon as possible in 2020. A sample Letter of Intent to Subscribe is provided in Attachment G.

FIGURE 10: STANDARD SUBSCRIPTION OFFER KEY TERMS

Account Eligibility	<u>Eligible Accounts</u> : Accounts that are: (i) serving municipal facilities; (ii) Non-Franchise, (iii) with Smart Meters installed, (iv) served on ComEd Fixed Default rates, and (v) in the following ComEd Customer Groups are eligible to receive Standard Subscriptions through the CS ² Program: Residential, Watt-Hour Non-Electric Space Heating, Demand Non-Electric Space Heating, Nonresidential Electric Space Heating, General Lighting.
Initial Term:	Twenty (20) years, beginning on the successful enrollment of the Subscription by Utility.
Subscription Size:	The Subscription is sized based on Subscriber's historical usage to comply with Net Metering Law. The Subscription may be adjusted up or down upon mutual agreement of Subscriber and Owner in the future based on Subscriber's electricity usage during the Term. Subscriber will be notified in advance of any proposed adjustment to the Subscription based on usage and may increase or decrease its Subscription only upon written agreement.
Monthly Billing:	Subscriber will continue to be billed by the Utility and will receive monthly invoices from the Community Solar Owner's Billing Administrator for 90% of the Bill Credits received on the municipal utility bill
Subscription Price and Fees:	<u>Estimated Discount</u> : Subscriber will receive a 10% discount on the value of the net Bill Credits. Actual savings—and monthly payments—may vary based on the Net Metering Tariff, the total production of the Project, and the proportion of the Subscription to the Nameplate Capacity of the Project. <u>Fees and Other Charges</u> : Beyond the subscription price payable to Owner above, there are no other fees payable to Owner.
Security Deposit:	\$0
Early Termination and Early Termination Fees:	Subscriber may cancel the Subscription Agreement at any time by providing at least ninety (90) calendar days' notice to Owner. \$0 with ninety (90) calendar days' advance written notice.
No Guarantee Level of Savings:	This Agreement does not guarantee a minimum level of performance by the Project or minimum quantity of value of Bill Credits.
Transferability:	If the Utility Account Service Address identified above changes for any reason, Subscriber must provide written notice to Owner.
Privacy Policy:	Owner will not provide customer's information obtained under this Agreement to third parties except as necessary to administer this Agreement.
Project Production:	Actual production will be based on several factors; Owner is not guaranteeing minimum or maximum production during any time period.
3-DAY RESCISSION PERIOD: SUBSCRIBER HAS THE RIGHT TO RESCIND THE SUBSCRIPTION AGREEMENT BY NOTIFYING OWNER IN WRITING AT ANY TIME PRIOR TO THREE (3) BUSINESS DAY AFTER THE DATE OF EXECUTION OF THE SUBSCRIPTION AGREEMENT.	

DETAILS ON THE SPECIAL SUBSCRIPTION OFFER

The Special Subscription provides Eligible Accounts with a guaranteed 30% savings on the value of all Bill Credits for a 15-year term. The Special Subscription does include a reasonable early termination fee if terminated Subscriptions cannot be replaced with a new eligible Subscriber at the time of notice of termination. The Special Subscription is offered by Clearway (see Attachment E for more background on Clearway). Figure 11 conveys the key terms of the Special Subscription, and a copy of the Special Subscription Agreement is found in Attachment F.

ELIGIBILITY. The Special Subscription is available to any Eligible Account served by ComEd that meets the following requirements:

- **Municipal Service.** The account must serve an Illinois municipality.
- **Specific Customer Groups.** The account must belong to ComEd Customer Groups (Residential, Watt-Hour Non-Electric Space Heating, Demand Non-Electric Space Heating, Nonresidential Electric Space Heating, General Lighting).
- **Minimum Size.** Accounts must support at least a 200-watt Subscription (roughly 1,000 kWh/yr.).
- **Utility Fixed Rate.** The account must be served under the utility fixed rate. Subscription Eligible accounts currently receiving service from a retail supplier may enroll in a Special Subscription so long as the account is moved to ComEd Default Rate Service by the time the Community Solar project is energized later in 2020.
- **Metered.** The account must have a Smart meter.
- **Non-Franchise.** The account may not receive a zero bill ("Ordinance Consideration") by the utility

BILLING. With the Special Subscription, the Subscriber receives 100% of all Bill Credits on their monthly utility bill that reduce the amount owed to the utility. Then, the Subscriber remits payment to Clearway equal to 70% of the Bill Credits received.

COST IMPACT. The Special Subscription delivers 30% saving on the value of all Bill Credits received by the Subscriber – with the basis of the Bill Credit being the net price of the utility Purchased Electricity Charge and the Purchased Electricity Adjustment. A projection of cost impacts from the Special Subscription is included in Attachment B.

TERMINATION FEE. Subscribers that terminate their Special Subscription Agreement for any reason other than account relocation must pay a prorated termination fee. **The termination fee may be cancelled or rebated if a replacement Subscriber can be enrolled.** MMC will assist with a replacement Subscriber, if one is available. Figure 12 illustrates how termination fees may be applied to a single 25kW Subscription.

SUSTAINABILITY. The renewable attributes ("RECs") generated by the community solar projects participating in the CS² Program will be sold to ComEd through the IPA's Adjustable Block Program. Selling the RECs to ComEd reduces costs for Subscribers. To be clear, Subscriptions through the CS² Program do not entitle Subscribers to claim that they are using "renewable energy". Instead, Subscribers are advised that the energy generated from the community solar projects has been created from the sun, and that by subscribing to community solar projects that they are supporting the development of new solar power in the ComEd service region.

BEST FIT FOR CUSTOMERS. The Special Subscription is the best option for municipalities with:

- **Higher Certainty.** Municipalities that are committed to long-term sustainability goals.
- **More Price Sensitivity.** Municipalities that would benefit from a higher level of cost savings.

TIMING. Municipalities are strongly encouraged to submit a Letter of Intent to Subscribe as early as possible in 2020. A sample Letter of Intent to Subscribe is provided in Attachment G.

Metropolitan Mayors Caucus: CS² Program for Community Solar

FIGURE 11: SPECIAL SUBSCRIPTION OFFER KEY TERMS

Account Eligibility	<u>Eligible Accounts</u> : Accounts that are: (i) serving municipal facilities; (ii) Non-Franchise, (iii) with Smart Meters installed, (iv) served on ComEd Fixed Default rates, and (v) in the following ComEd Customer Groups are eligible to receive Standard Subscriptions through the CS ² Program: Residential, Watt-Hour Non-Electric Space Heating, Demand Non-Electric Space Heating, Nonresidential Electric Space Heating, General Lighting.
Initial Term:	Fifteen (15) years, beginning on the successful enrollment of the Subscription by Utility.
Subscription Size:	The Subscription is sized based on Subscriber's historical usage to comply with Net Metering Law. The Subscription may be adjusted up or down upon mutual agreement of Subscriber and Owner in the future based on Subscriber's electricity usage during the Term. Subscriber will be notified in advance of any proposed adjustment to the Subscription based on usage and may increase or decrease its Subscription only upon written agreement.
Monthly Billing:	Subscriber will continue to be billed by the Utility and will receive monthly invoices from Clearway for 70% of the Bill Credits received on the municipal utility bill.
Subscription Price and Fees:	<u>Estimated Discount</u> : Subscriber will save 30% on the value of the Bill Credits received. Actual savings—and monthly payments—may vary based on the Net Metering Tariff, the total production of the Project, and the proportion of the Subscription to the Nameplate Capacity of the Project. <u>Fees and Other Charges</u> : Beyond the subscription price payable to Owner above, there are no other fees payable to Owner.
Security Deposit:	\$0
Early Termination; Early Termination Charges, Refunding of Early Termination Charges	Termination: Subscriber may cancel the Subscription Agreement at any time by providing at least ninety (90) calendar days' notice to Owner. Reasonable Prorated Termination Fee: In the event a Subscriber chooses to terminate a Subscription Agreement for any reason other than account elimination. Refunding of Termination Fee: If a replacement Subscriber is found after the termination fee is paid, Owner will refund a portion of the termination fee equivalent to the NPV (using 8% discount rate) of replacement customer's future payments minus any costs incurred (e.g., resubscription costs and lost REC revenue).
No Guarantee Level of Savings:	This Agreement does not guarantee a minimum level of performance by the Project or minimum quantity of value of Bill Credits.
Transferability:	If the Utility Account Service Address identified above changes for any reason, Subscriber must provide written notice to Owner.
Privacy Policy:	Owner will not provide customer's information obtained under this Agreement to third parties except as necessary to administer this Agreement.
Project Production:	Actual production will be based on several factors; Owner is not guaranteeing minimum or maximum production during any time period.
3-DAY RESCISSION PERIOD: SUBSCRIBER HAS THE RIGHT TO RESCIND THE SUBSCRIPTION AGREEMENT BY NOTIFYING OWNER IN WRITING AT ANY TIME PRIOR TO THREE (3) BUSINESS DAY AFTER THE DATE OF EXECUTION OF THE SUBSCRIPTION AGREEMENT.	

FIGURE 11: EXAMPLE OF SPECIAL SUBSCRIPTION TERMINATION SCHEDULE FOR 25KW ACCOUNT

Termination Year	Subscription Bill Credits			Standard Offer			ComEd Accounts				
	Subscription Volume (kWh)	Bill Credit Value	Annual Bill Credit Value	% Saved on Bill Credits by Municipality	Annual Bill Credits Saved by Municipality	Cumulative Savings	% Saved on Bill Credits by Municipality	Annual Bill Credits Saved by Municipality	Cumulative Savings	Termination Fee (w/o replacement customer)	Cumulative Savings if Maximum Termination Fee was Applied
	A	B	C = A * B	D	E = C * D	F = E ₁ + E ₂ ...	G	H = C * G	I = H ₁ + H ₂ ...	J = estimated Fee	K = I - J
1	60,938	\$0.0598	\$3,644	10%	\$364	\$364	30%	\$1,093	\$1,093	\$6,957	(\$5,864)
2	60,633	\$0.0610	\$3,698	10%	\$370	\$734	30%	\$1,110	\$2,203	\$6,525	(\$4,322)
3	60,330	\$0.0622	\$3,753	10%	\$375	\$1,110	30%	\$1,126	\$3,329	\$6,120	(\$2,791)
4	60,028	\$0.0635	\$3,809	10%	\$381	\$1,491	30%	\$1,143	\$4,472	\$5,894	(\$1,422)
5	59,728	\$0.0647	\$3,866	10%	\$387	\$1,877	30%	\$1,160	\$5,631	\$5,614	\$17
6	59,430	\$0.0660	\$3,924	10%	\$392	\$2,270	30%	\$1,177	\$6,809	\$5,301	\$1,508
7	59,133	\$0.0673	\$3,982	10%	\$398	\$2,668	30%	\$1,195	\$8,003	\$4,913	\$3,090
8	58,837	\$0.0687	\$4,042	10%	\$404	\$3,072	30%	\$1,212	\$9,216	\$4,462	\$4,754
9	58,543	\$0.0701	\$4,102	10%	\$410	\$3,482	30%	\$1,231	\$10,446	\$3,968	\$6,478
10	58,250	\$0.0715	\$4,163	10%	\$416	\$3,898	30%	\$1,249	\$11,695	\$3,438	\$8,257
11	57,959	\$0.0729	\$4,225	10%	\$422	\$4,321	30%	\$1,267	\$12,963	\$2,917	\$10,046
12	57,669	\$0.0744	\$4,288	10%	\$429	\$4,750	30%	\$1,286	\$14,249	\$2,395	\$11,854
13	57,381	\$0.0758	\$4,352	10%	\$435	\$5,185	30%	\$1,306	\$15,555	\$1,875	\$13,680
14	57,094	\$0.0774	\$4,417	10%	\$442	\$5,627	30%	\$1,325	\$16,880	\$1,309	\$15,571
15	56,808	\$0.0789	\$4,482	10%	\$448	\$6,075	30%	\$1,345	\$18,224	\$688	\$17,536
16	56,524	\$0.0805	\$4,549	10%	\$455	\$6,530	NOTES CONCERNING PROJECTIONS: 1. These are projected values and are for illustrative purposes only. 2. 0.5% annual degradation of solar output (industry norm) 3. 2% year over year increase in Bill Credit values (assumed) 4. Full Term Cumulative Savings for Standard Subscription: \$9,418 5. Full Term Cumulative Savings for Special Subscription: \$18,224				
17	56,242	\$0.0821	\$4,617	10%	\$462	\$6,991					
18	55,960	\$0.0837	\$4,686	10%	\$469	\$7,460					
19	55,681	\$0.0854	\$4,756	10%	\$476	\$7,936					
20	55,402	\$0.0871	\$4,826	10%	\$483	\$8,418					

Section 3: Next Steps

- Subscriber Checklist
- CS² Program Contact

SUBSCRIBER CHECKLIST

Due to limited supply, Subscriptions through the CS² Program will be distributed on a “first come, first served” basis subject to community solar provider’s approval. Figure 13 lays out the steps that municipalities should take to secure Subscriptions for their accounts. Community Solar projects are

expected to be constructed and operational in the third or fourth quarter of 2020.

CS² PROGRAM CONTACT

Mark J. Pruitt

The Power Bureau, LLC / CS² Program Manager

markjpruitt@thepowerbureau.com

cs2program@thepowerbureau.com

FIGURE 13: SUBSCRIBER CHECKLIST

Task	Recommended Completion Date
1. Complete all Utility Account Analysis	
Verify that all Utility Accounts have been Analyzed. Attachment A identifies all municipal accounts reviewed to date. <i>Please forward any additional accounts that require analysis to the CS² Program Manager.</i>	February 2020
Review Account Analysis. Attachment B projects the cost impact of Subscriptions for all Subscription Eligible accounts reviewed to date. <i>Please contact CS² Program Manager for clarifications concerning the results of the analysis.</i>	February 2020
2. Select you Subscription Options	
Legal Review Subscription Agreement Documents. Conduct a legal review of the Standard Subscription Agreement (Attachment C) and the Special Subscription (Attachment F) to determine which Subscription option provides the most acceptable terms for your municipality.	February 2020
Select Accounts for Subscriptions. Identify which accounts you wish to enroll in either the Standard or Special Subscription option.	February 2020
3. Enroll into a Subscription Agreement	
Send Intent to Subscribe Form. Forward a Intent to Subscribe Form (see sample in Attachment G) to the CS ² Program Manager.	February 2020
Execute Subscription Agreements. Execute all necessary contract documents (to be prepared by the CS ² Program Manager).	February/March 2020
4. Prepare for Flow of Bill Credits	
Adjust Retail Supply Contracts for Subscribed Accounts. Either terminate or allow to expire any retail supply contract for accounts for which you are seeking to secure Subscriptions.	Q2/Q3 2020
Project Energization. You will be notified when the community solar projects related to your Subscriptions are energized and when to expect Bill Credits to commence on monthly billing statements	Q3/Q4 2020

Attachment A: Municipal Accounts Analyzed

ComEd ACCOUNT NUMBERS	CUSTOMER NAME	FACILITY NAME	SERVICE ADDRESS	RATE	ENERGY SUPPLIER	ANNUAL CONSUMPTION (kWh)	ACCOUNT GROUP
0036001046	Village of Beecher	Well #5	1475 Rolling Pass	Retail Delivery Service - 0 to 100 kW	Dynegy	93,600	Subscription Eligible
0120148147	Village of Beecher		638 Gould St	Retail Delivery Service - 0 to 100 kW	Dynegy	91,589	Subscription Eligible
1995239018	Village of Beecher	Fireman's Park	711 Penfield St	Retail Delivery Service - 0 to 100 kW	Constellation	11,029	Subscription Eligible
2523087187	Village of Beecher		300 Miller St	Retail Delivery Service - 0 to 100 kW	Dynegy	6,357	Subscription Eligible
3243132080	Village of Beecher	Lift Station	30200 Cardinal Creek BLVD	Retail Delivery Service - 0 to 100 kW	Dynegy	42,840	Subscription Eligible
3756155006	Village of Beecher		1 Roman Rd	Retail Delivery Service - 0 to 100 kW	Dynegy	108,780	Subscription Eligible
3587097008	Village of Beecher	Siren	3E Dixie Hwy	Commercial - Watt-hour - Unmetered	ComEd-Franchise	24	Subscription Ineligible
3635147039	Village of Beecher	Siren	628 Gould St	Commercial - Watt-hour - Unmetered	ComEd-Franchise	24	Subscription Ineligible
4392026054	Village of Beecher	ESDA	638 Gould St	Commercial - Watt-hour	ComEd-Franchise	1,513	Subscription Ineligible
0771133030	Village of Beecher	Historical Facility	620 Reed St	Commercial Demand - 0 to 100 kW	ComEd-Franchise	8,129	Subscription Ineligible
0925044006	Village of Beecher	Lift Station	0 S Fairway Dr.	Commercial Demand - 0 to 100 kW	ComEd-Franchise	3,155	Subscription Ineligible
0933346000	Village of Beecher	Public Works	1 S Ahrens Dr	Commercial Demand - 0 to 100 kW	ComEd-Franchise	786	Subscription Ineligible
1186136015	Village of Beecher	Public Works	380 Ahrens Dr	Commercial Demand - 0 to 100 kW	ComEd-Franchise	10,183	Subscription Ineligible
1186297031	Village of Beecher		625 Dixie Hwy	Commercial Demand - 0 to 100 kW	ComEd-Franchise	47,268	Subscription Ineligible
1187165038	Village of Beecher	Public Works	30300 Towncenter Rd	Commercial Demand - 0 to 100 kW	ComEd-Franchise	37,380	Subscription Ineligible
1346286003	Village of Beecher		724A Penfield	Commercial Demand - 0 to 100 kW	ComEd-Franchise	40,740	Subscription Ineligible
6083107042	Village of Beecher	TFLT	1260 E Dixie Hwy	Commercial General Lighting - unmetered	ComEd-Franchise	66,192	Subscription Ineligible
0959310000	Village of Beecher		625 Dixie Hwy	Retail Delivery Services - 100 kW to 400 kW	Dynegy	760,035	Subscription Ineligible
0409100045	Village of Beecher		1668 Woodbury Bend Lite	Retail Delivery Service - Com Fixture Include	Constellation	257,136	Subscription Ineligible
6771169036	Village of Beecher		0 Dixie Highway Lite	Retail Delivery Service - Com DD - unmetered	Constellation	37,966	Subscription Ineligible

Key to your Municipal Account Analysis

The energy supplier we have recorded for each account

Analysis of CS² Subscription Options

**Total Electricity Supply Cost
if the account was served
on the ComEd Default Rate
plus a Standard or Special
Subscription**

The projected annual total cost for each energy supply option

Attachment B: Municipal Account Analysis

Village of Beecher

Analysis of CS² Subscription Options

Account Information			Current Total Supply Cost (Energy + Capacity + Transmission)			Projected Total Supply Cost with Standard Subscription (Energy + Capacity + Transmission + 10% of Bill Credits)			Projected Total Supply Cost with Special Subscription (Energy + Capacity + Transmission + 30% of Bill Credits)		
ComEd Account Number	Account Service Address	Estimated Annual Consumption (kWh)	Current Energy Supplier	Energy Supply Price (\$/kWh)	Annual Cost	Proposed Energy Supplier	Net Energy Supply Price (\$/kWh)	Annual Cost	Proposed Energy Supplier	Net Energy Supply Price (\$/kWh)	Annual Cost
		A		B	C=A*B		D	E=A*D		F	G=A*F
0036001046	1475 Rolling Pass	93,600	Dynegy	\$0.05020	\$4,699	ComEd Fixed + Standard Subscription	\$0.06291	\$5,888	ComEd Fixed + Special Subscription	\$0.05163	\$4,833
0120148147	638 Gould St	91,589	Dynegy	\$0.05020	\$4,598	ComEd Fixed + Standard Subscription	\$0.06291	\$5,762	ComEd Fixed + Special Subscription	\$0.05163	\$4,729
1935239018	711 Penfield St	11,029	Constellation	\$0.07512	\$828	ComEd Fixed + Standard Subscription	\$0.06291	\$694	ComEd Fixed + Special Subscription	\$0.05163	\$569
2523087187	300 Miller St	6,357	Dynegy	\$0.05020	\$319	ComEd Fixed + Standard Subscription	\$0.06291	\$400	ComEd Fixed + Special Subscription	\$0.05163	\$328
3243132080	30200 Cardinal Creek Blvd	42,840	Dynegy	\$0.05020	\$2,151	ComEd Fixed + Standard Subscription	\$0.06291	\$2,695	ComEd Fixed + Special Subscription	\$0.05163	\$2,212
3756155006	1 Roman Rd	108,780	Dynegy	\$0.05015	\$5,455	ComEd Fixed + Standard Subscription	\$0.06291	\$6,843	ComEd Fixed + Special Subscription	\$0.05163	\$5,617
TOTALS/AVERAGES		354,195		\$0.05096	\$18,050		\$0.06291	\$22,281		\$0.05163	\$18,289
ANNUAL COST IMPACT (\$)								-\$4,231			-\$239
ANNUAL COST IMPACT (%)								-23.4%			-1.3%

Red Shading indicates that Subscription Option has a higher cost than the current supply option.

Attachment B: Municipal Account Analysis

	<p>Cost and Savings Calculation Methodologies.</p> <p>A. Costs Under Current Supply Rates.</p> <p>1. For Accounts Served on the ComEd Fixed Rate = [Annual consumption] * [(seasonally averaged Purchased Electricity Charge) + (2019 average Purchased Electricity Adjustment)] + [Transmission charge].</p> <p>2. For Accounts Served by A Retail Energy Supplier = [Annual consumption] * [Retail Supply Rate].</p> <p>B. Costs Under Subscription Options. Assumes accounts are served on the ComEd Fixed Rate to capture highest Bill Credit values.</p> <p>1. ComEd Fixed Rate + Standard Subscription = [Annual consumption] * [(seasonally averaged Purchased Electricity Charge) + (2019 average Purchased Electricity Adjustment) * 90%] + [Transmission charge].</p> <p>2. ComEd Fixed Rate + Special Subscription = [Annual consumption] * [(seasonally averaged Purchased Electricity Charge) + (2019 average Purchased Electricity Adjustment) * 70%] + [Transmission charge].</p> <p>C. Cost calculations are for estimating purposes only. Changes in account consumption levels, the Purchased Electricity Charge, and the Purchased Electricity Adjustment will cause changes in costs and benefits associated with Subscriptions.</p>
<p>Notes on Subscription</p>	<p>Accounts on the ComEd-Fixed Rate.</p> <p>1. ComEd-Fixed Rate accounts can be placed into a 100% Green Power Supply contract within 1-2 billing cycles.</p> <p>2. A price refresh on some or all of your ComEd-Fixed Rate accounts upon request.</p>
	<p>Accounts with Existing Retail Energy Supply Agreements.</p> <p>1. Accounts with existing retail supply agreements can be either terminated or allowed to expire.</p> <p>2. Once the existing retail supply agreements expire or are terminated, the accounts will revert to the ComEd-Fixed rate and then a Subscription can be applied.</p> <p>3. Terminating existing retail energy supply can expose buyers to termination penalties, so the CS² Program recommends that municipalities review their contract terms before taking steps towards termination.</p> <p>4. A price refresh on some or all of your ComEd-Fixed Rate accounts upon request.</p>

Village of Beecher

625 Dixie Highway
PO Box 1154
Beecher, Illinois 60401
Phone: 708-946-2261
Fax: 708-946-3764
www.villageofbeecher.org

President

Greg Szymanski

Clerk

Janett Conner

Administrator

Robert O. Barber

Trustees

Scott Wehling
Jonathon Kypuros
Marcy Meyer
Frank Basile
Stacy Mazurek
Todd Kraus

<u>Retail Provider</u>	<u>Account #</u>	<u>Location</u>	<u>Fund-Department</u>
Com Ed	0925044006	Fairway Dr. Lift	Sewer
Com Ed	1935239018	Firemen's Park	General - Parks
Com Ed (Constellation)	0409100045	Rate 23 Street Lights	General - Street
Constellation	6771169036	Rate 25 Street Lights	General - Street
Dynegy	3756155006	Well #3	Water
Dynegy	0120148147	Well #4	Water
Dynegy	0036001046	Well #5	Water
Dynegy	3243132080	Cardinal Creek Lift	Sewer
Dynegy	2523087187	Miller Lift	Sewer
Dynegy	0959310000	Sewer Treatment Plant	Sewer
Com Ed	3635147039	Gould St. Warning Siren	FRANCHISE
Com Ed	3587097008	Church St. Warning Siren	FRANCHISE
Com Ed	0771133030	Depot Museum	FRANCHISE
Com Ed	0933346000	PW Garage - Ahrens Dr.	FRANCHISE
Com Ed	1186169050	PW Garage - Reed	FRANCHISE
Com Ed	1187165038	PW Garage - Town Center	FRANCHISE
Com Ed	1346286003	Police Station - 724 Pen.	FRANCHISE
Com Ed	4392026054	Radio Repeater at Tower	FRANCHISE
Com Ed	0409100054	Traffic Signals	FRANCHISE
Com Ed	1186297031	Village Hall	FRANCHISE



Your input is important!

PARK DISTRICT REFERENDUM FOR VILLAGE OF BEECHER RESIDENTS ON MARCH 17 PRIMARY BALLOT

A referendum question will appear on the upcoming March 17 primary election ballot regarding establishing a park district in the Village of Beecher. This is a ***non-binding*** referendum. A non-binding referendum gauges public opinion but it does NOT automatically establish a park district. This referendum question will only be on the ballot for Village of Beecher residents. The referendum question was initiated by the Village and the Village cannot authorize a referendum for Washington Township residents.

If a majority of Beecher residents are interested in establishing a park district, it would be up to the residents to form a group to actually establish the park district. This group would then begin the process of determining finances, services, what area the district would encompass (Village only vs Village and township), etc. As an existing taxing body, this is something the Village cannot do.

The referendum question will read:

Shall a park district be created in the Village of Beecher by its residents that would have the authority to tax and provide park and recreation services and activities for all ages?

There are pros and cons to establishing a park district. Several are listed below.

PROS

- ⇒ Provides a method for maintaining and improving existing parks
- ⇒ Provides recreation, fitness and social opportunities for all age groups
- ⇒ Adds value to homes in the area

CONS

- ⇒ Creates a new taxing body that adds to local taxes
- ⇒ Requires elected or appointed board members who may or may not have experience in running a district
- ⇒ Requires a lot of time to be spent in the original establishment and continued management of the district

It is important to note that you do not have to vote for candidates in the primary in order to vote on the referendum. You can request a non-partisan ballot and only vote on this issue. For any questions regarding this referendum call the Village Hall at 708-946-2261.

RESOLUTION # _____

A RESOLUTION ADOPTING A COMPLETE STREETS POLICY FOR CAPITAL IMPROVEMENT PROJECTS AND PUBLIC IMPROVEMENT DESIGN

WHEREAS, the Village of Beecher conducts street rehabilitation projects and reviews and approved subdivision design in the Village; and

WHEREAS, the Village approved the a comprehensive amendment to the land use plan in 2019, and contained in this plan is a policy goal of “adopting a complete streets policy to accommodate users of all age groups and abilities to access the pedestrian and trails network via non-motorized options” (Chapter 6, page 55 of the Plan); and

WHEREAS, the adoption of a complete streets policy provides additional guidelines and consideration of standards for transportation improvements to calm traffic, improve access, increase safety and integration of health-conscious mobility for all residents; and

WHEREAS, the Village will plan for, design, fund, construct, operate and maintain a safe and efficient transporation system for all users in all street and roadway projects, including new construction and reconstruction projects; and

WHEREAS, the adoption of such a policy will generate long-term cost savings in improved public health and environmental stewardship, which in turn will create a sense of community and foster positive growth throughout; and

NOW THEREFORE BE IT RESOLVED by the President and Board of Trustees of the Village of Beecher, Will County, Illinois, that attached document is hereby adopted as the “COMPLETE STREETS POLICY” of the Village of Beecher, and

BE IT FURTHER RESOLVED that staff and consultants for the Village of Beecher shall utilize this policy in the design and review of all road and other infrastructure projects in the Village of Beecher.

Approved by motion this _____ day of _____, 2020.

MOTION: _____ SECOND: _____

AYES: _____ NAYS: _____ ABSENT: _____

APPROVED BY ME THIS _____ DAY OF _____, _____.

Greg Szymanski
Village President

ATTEST:

Janett Conner
Village Clerk

Date

(SEAL)

Village of Beecher

COMPLETE STREETS POLICY

As adopted by
The Village Board of Trustees
On February 24, 2020

1. PURPOSE

The Village of Beecher seeks to create a comprehensive, integrated, and connected transportation network where every roadway user can travel safely and comfortably and where sustainable transportation options are available to everyone by planning, designing, operating, and maintaining a network of Complete Streets.

2. DEFINITION

Complete Streets are facilities designed, operated, and maintained to assure safe mobility for users of all ages and abilities, including pedestrians, cyclists, transit riders, and motorists, appropriate to the function and context of the facility.

3. FINDINGS

Complete Streets provide the following benefits:

- 1) Increased Transportation Choices: Streets that provide travel choices can give people the option to avoid traffic congestion and increase the overall capacity of the transportation network.
- 2) Improved Safety: Design and accommodation for bicyclists and pedestrians reduces the incidence of crashes.
- 3) Quality of Place: Increased bicycling and walking are indicative of vibrant and livable communities.
- 4) Economic Development: Complete streets can reduce transportation costs and travel time while increasing property values and job growth in communities.
- 5) Improved Return on Infrastructure Investments: Integrating sidewalks, bike lanes, transit amenities, and safe crossings into the initial design of a project spares the expense of retrofits later.
- 6) More Walking and Bicycling: Public health experts are encouraging walking and bicycling as a response to the obesity epidemic. Streets that provide room for bicycling and walking help people of all ages get physical activity and gain independence.

4. POLICY

The Village of Beecher's Complete Streets policy shall incorporate the needs of all users through the planning, design, approval, and implementation processes for any construction, reconstruction, or retrofit of streets, or other portions of the transportation network, including pavement resurfacing, restriping, and signalization operations, if the safety and convenience of users can be improved within the scope of the work.

- 1) Create a comprehensive, integrated, connected multi-modal network by providing connections to bicycling and walking trip generators such as employment, education, residential, recreational and public facilities, as well as retail and transit centers.
- 2) Provide safe and accessible accommodations for existing and future pedestrian, bicycle and transit facilities.
- 3) Establish a checklist of pedestrian, bicycle and transit accommodations such as accessible sidewalks, curb ramps, crosswalks, countdown pedestrian signals, signs, median refuges, curb extensions, pedestrian scale lighting, bike lanes, shoulders and bus shelters with the presumption that they shall be included in each project unless supporting documentation against inclusion is provided and is found to be justifiable.
- 4) Establish a procedure to evaluate resurfacing projects for complete streets inclusion according to length of project, local support, environmental constraints, total available right-of-way, funding resources and bicycle and/or pedestrian compatibility.
- 5) Address the need for bicyclists and pedestrians to cross corridors as well as travel along them. Even where bicyclists and pedestrians may not commonly use a particular travel corridor that is being improved or constructed, they will likely need to be able to cross that corridor safely and conveniently. Therefore, the design of intersections shall accommodate bicyclists and pedestrians in a manner that is safe, accessible and convenient.
- 6) Design bicycle and pedestrian facilities to the best currently available standards and practices including the American Association of State Highway Transportation Officials (AASHTO) *Guide for the Development of Bicycle Facilities*, the AASHTO *Guide for the Planning, Design, and Operation of Pedestrian Facilities*, the AASHTO Green Book: *A Policy on Geometric Design of Highways and Streets*, the Federal Highway Administration (FHWA) *Highway Capacity Manual* (HCM), the FHWA *Manual of Uniform Traffic Control Devices* (MUTCD), the *Americans with Disabilities Act Accessibility Guidelines* (ADAAG), and others as related. Methods for providing flexibility within safe design parameters, such as context sensitive solutions and design, will be considered.
- 7) Research, develop and support best practices in improving safety and mobility.
- 8) Implement training for Engineers and Planners on Bicycle/Pedestrian/Transit policies and integration of non-motorized travel options into transportation systems.
- 9) Make provisions for pedestrians and bicyclists when closing roads, bridges or sidewalks for construction projects.
- 10) Consider connections for Safe Routes to Schools, trail crossings, and areas or population groups with limited transportation options.
- 11) Comply with the Americans with Disabilities Act (ADA).
- 12) Complement the context of the surrounding community.
- 13) Update all necessary and appropriate codes, standards, and ordinances to ensure that design components for all modified streets follow the intent of the policy.
- 14) Identify all current and potential future sources of funding for street improvements.
- 15) Establish performance measures to gauge success of the adopted policy.

5. EXEMPTIONS

Exemptions to the Complete Streets policy must be documented in writing by the Village Engineer with supporting data that indicates the reason for the decision and are limited to the following:

- 1) Non-motorized users are prohibited on the roadway.

- 2) There is documentation that there is an absence of current and future need.
- 3) The cost of accommodations for a particular mode is excessively disproportionate to the need and potential benefit of a project.
- 4) The project involves ordinary maintenance activities designed to keep assets in acceptable condition, such as cleaning, sealing, spot repairs, patching, and surface treatments, such as micro-surfacing.

6. EVALUATION

The Village of Beecher shall document the success of the Complete Streets policy using the following measures:

- 1) Number of new miles of on-street bicycle routes defined by streets with clearly marked or signed bicycle accommodations.
- 2) Number of new bicycle parking spaces.
- 3) Number of linear feet of new or reconstructed pedestrian accommodations.
- 4) Number of new or reconstructed accessible curb ramps.
- 5) Total number of funded bicycle and pedestrian projects and new facilities.

RESOLUTION # _____

SURFACE TRANSPORTATION PROGRAM LOCAL ASSURANCE RESOLUTION

WHEREAS the VILLAGE PRESIDENT AND BOARD OF TRUSTEES of the VILLAGE OF BEECHER, Will County, Illinois desires to improve and enhance transportation corridors within the VILLAGE; and

WHEREAS the Chicago Metropolitan Agency for Planning (CMAP) administers the Surface Transportation Program (STP) to assist local communities with improving transportation facilities and

WHEREAS those polices require that to receive STP funding, a project sponsor must submit an STP project application and a resolution stating the Village will fund the required local 20% match for all phases of the project, which will be available through the life of the project.

WHEREAS the "Gould Street Improvement", consisting of the resurfacing of the pavement along the limits between Indiana Avenue and Penfield Street, has been identified by VILLAGE staff to comply with the VILLAGE desires to improve the transportation corridors within the VILLAGE.

NOW, BE IT RESOLVED that the VILLAGE PRESIDENT AND BOARD OF TRUSTEES of the VILLAGE OF BEECHER, Will County, Illinois authorize the VILLAGE staff to apply to the Will County Governmental League Surface Transportation Program to assist in the funding of the above described project.

BE IT FURTHER RESOLVED that the VILLAGE PRESIDENT AND BOARD OF TRUSTEES of the VILLAGE OF BEECHER, Will County, Illinois:

1. Certifies that they are willing and able to manage, maintain and operate the project; and
2. Possesses the legal authority to nominate the transportation enhancement project and to finance, acquire, and construct the proposed project; and by this assurance authorizes the nomination of the surface transportation project, including all understanding and assurances contained therein, and authorizes representative to act in connection with the nomination and to provide such additional information as may be required; and
3. Affirms that, if selected, the project will commence within the time periods defined by and in accordance with Will County Governmental League STP Methodologies.

Approved by motion this _____ day of _____, 2020.

MOTION: _____ SECOND: _____

AYES: _____ NAYS: _____ ABSENT: _____

APPROVED BY ME THIS _____ DAY OF _____, _____.

Greg Szymanski
Village President

I, _____, Clerk in and for the VILLAGE OF BEECHER, Will County,
Illinois, hereby certify the foregoing to be a true, perfect and complete copy of a resolution adopted
by the VILLAGE PRESIDENT AND BOARD OF TRUSTEES at a meeting on
_____.

Signed:

Village Clerk

Date

(SEAL)

RESOLUTION # _____

SURFACE TRANSPORTATION PROGRAM LOCAL ASSURANCE RESOLUTION

WHEREAS the VILLAGE PRESIDENT AND BOARD OF TRUSTEES of the VILLAGE OF BEECHER, Will County, Illinois desires to improve and enhance transportation corridors within the VILLAGE; and

WHEREAS the Chicago Metropolitan Agency for Planning (CMAP) administers the Surface Transportation Program (STP) to assist local communities with improving transportation facilities and

WHEREAS those policies require that to receive STP funding, a project sponsor must submit an STP project application and a resolution stating the Village will fund the required local 20% match for all phases of the project, which will be available through the life of the project.

WHEREAS the “Church Road Improvement”, consisting of the widening and reconstruction of the pavement along the limits between IL 1 and Cardinal Creek Boulevard, has been identified by VILLAGE staff to comply with the VILLAGE desires to improve the transportation corridors within the VILLAGE.

NOW, BE IT RESOLVED that the VILLAGE PRESIDENT AND BOARD OF TRUSTEES of the VILLAGE OF BEECHER, Will County, Illinois authorize the VILLAGE staff to apply to the Will County Governmental League Surface Transportation Program to assist in the funding of the above described project.

BE IT FURTHER RESOLVED that the VILLAGE PRESIDENT AND BOARD OF TRUSTEES of the VILLAGE OF BEECHER, Will County, Illinois:

1. Certifies that they are willing and able to manage, maintain and operate the project; and
2. Possesses the legal authority to nominate the transportation enhancement project and to finance, acquire, and construct the proposed project; and by this assurance authorizes the nomination of the surface transportation project, including all understanding and assurances contained therein, and authorizes representative to act in connection with the nomination and to provide such additional information as may be required; and
3. Affirms that, if selected, the project will commence within the time periods defined by and in accordance with Will County Governmental League STP Methodologies.

Approved by motion this _____ day of _____, 2020.

MOTION: _____ SECOND: _____

AYES: _____ NAYS: _____ ABSENT: _____

APPROVED BY ME THIS _____ DAY OF _____, _____.

Greg Szymanski
Village President

I, _____, Clerk in and for the VILLAGE OF BEECHER, Will County,
Illinois, hereby certify the foregoing to be a true, perfect and complete copy of a resolution adopted
by the VILLAGE PRESIDENT AND BOARD OF TRUSTEES at a meeting on
_____.

Signed:

Village Clerk

Date

(SEAL)

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sum:

**VILLAGE OF BEECHER
LEAD WATER SERVICE LINE REPLACEMENTS
REL # 19-R0571**

The undersigned submits herewith his schedule of prices covering the work to be performed under this contract; he understands that he must show in the schedule the unit prices for which he proposes to perform each item of work; that the extensions must be made by him, and if not so done, his proposal may be rejected as irregular.

Schedule of Prices

(For complete information covering these items, see plans and specifications)

NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

Item No.	Items	Unit	Quantity	Unit Price	Total
1	TREE ROOT PRUNING	EACH	20	\$ 250.00	\$ 5,000.00
2	INLET FILTERS	EACH	1	\$ 250.00	\$ 250.00
3	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	23	\$ 7.00	\$ 161.00
4	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"	SQ YD	20	\$ 70.00	\$ 1,400.00
5	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	20	\$ 75.00	\$ 1,500.00
6	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	750	\$ 8.75	\$ 6,562.50
7	DRIVEWAY PAVEMENT REMOVAL	SQ YD	20	\$ 20.00	\$ 400.00
8	SIDEWALK REMOVAL	SQ FT	750	\$ 2.25	\$ 1,687.50
9	PARTIAL LEAD WATER SERVICE REPLACEMENT, 3/4" (SHORT)	EACH	1	\$ 3,500.00	\$ 3,500.00
10	PARTIAL LEAD WATER SERVICE REPLACEMENT, 1" (SHORT)	EACH	1	\$ 3,500.00	\$ 3,500.00
11	PARTIAL LEAD WATER SERVICE REPLACEMENT, 1-1/2" (SHORT)	EACH	1	\$ 3,500.00	\$ 3,500.00
12	PARTIAL LEAD WATER SERVICE REPLACEMENT, 2" (SHORT)	EACH	1	\$ 3,500.00	\$ 3,500.00
13	PARTIAL LEAD WATER SERVICE REPLACEMENT, 3/4" (LONG)	EACH	1	\$ 5,000.00	\$ 5,000.00
14	PARTIAL LEAD WATER SERVICE REPLACEMENT, 1" (LONG)	EACH	1	\$ 5,000.00	\$ 5,000.00
15	PARTIAL LEAD WATER SERVICE REPLACEMENT, 1-1/2" (LONG)	EACH	1	\$ 5,000.00	\$ 5,000.00
16	PARTIAL LEAD WATER SERVICE REPLACEMENT, 2" (LONG)	EACH	1	\$ 5,000.00	\$ 5,000.00
13	FULL LEAD WATER SERVICE REPLACEMENT, 3/4" (SHORT)	EACH	1	\$ 5,000.00	\$ 5,000.00
14	FULL LEAD WATER SERVICE REPLACEMENT, 1" (SHORT)	EACH	1	\$ 5,000.00	\$ 5,000.00
15	FULL LEAD WATER SERVICE REPLACEMENT, 1-1/2" (SHORT)	EACH	1	\$ 5,000.00	\$ 5,000.00
16	FULL LEAD WATER SERVICE REPLACEMENT, 2" (SHORT)	EACH	1	\$ 5,000.00	\$ 5,000.00
17	FULL LEAD WATER SERVICE REPLACEMENT, 3/4" (LONG)	EACH	1	\$ 7,000.00	\$ 7,000.00
18	FULL LEAD WATER SERVICE REPLACEMENT, 1" (LONG)	EACH	105	\$ 7,000.00	\$ 735,000.00
19	FULL LEAD WATER SERVICE REPLACEMENT, 1-1/2" (LONG)	EACH	1	\$ 7,000.00	\$ 7,000.00
20	FULL LEAD WATER SERVICE REPLACEMENT, 2" (LONG)	EACH	1	\$ 7,000.00	\$ 7,000.00
17	SANITARY SEWER SERVICE ADJUSTMENT	EACH	5	\$ 1,500.00	\$ 7,500.00
18	EXPLORATORY EXCAVATION	EACH	25	\$ 850.00	\$ 21,250.00
19	NON-SPECIAL WASTE DISPOSAL	CU YD	30	\$ 78.00	\$ 2,340.00
20	REMOVING AND RESETTING STREET SIGNS	EACH	5	\$ 150.00	\$ 750.00
21	LEAD FILTER PITCHER	EACH	120	\$ 70.00	\$ 8,400.00
22	REPLACEMENT CARTRIDGE	EACH	120	\$ 30.00	\$ 3,600.00
3% Contingency					\$ 26,124.03
Bidder's Proposal for making Entire Improvements:					\$ 896,925.03

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sum:

**VILLAGE OF BEECHER
WATER METER REPLACEMENTS**
REL # 19-R0571

The undersigned submits herewith his schedule of prices covering the work to be performed under this contract; he understands that he must show in the schedule the unit prices for which he proposes to perform each item of work; that the extensions must be made by him, and if not so done, his proposal may be rejected as irregular.

Schedule of Prices

(For complete information covering these items, see plans and specifications)
NOTE: BIDS shall include sales tax and all other applicable taxes and fees.

Item No	Items	Unit	Quantity	Unit Price	Total
1	REMOVE AND REPLACE INTERIOR WATER VALVE - 3/4"	EACH	30	\$ 225.00	\$ 6,750.00
2	REMOVE AND REPLACE INTERIOR WATER VALVE - 1-1/2"	EACH	1	\$ 225.00	\$ 225.00
3	REMOVE AND REPLACE INTERIOR WATER VALVE - 2"	EACH	1	\$ 225.00	\$ 225.00
4	REMOVE AND REPLACE WATER METER - 3/4"	EACH	50	\$ 550.00	\$ 27,500.00
5	REMOVE AND REPLACE WATER METER - 3/4" (SHORT)	EACH	1	\$ 550.00	\$ 550.00
6	REMOVE AND REPLACE WATER METER - 1-1/2"	EACH	1	\$ 550.00	\$ 550.00
7	REMOVE AND REPLACE WATER METER - 2"	EACH	1	\$ 550.00	\$ 550.00
8	GROUNDING OF WATER METER	EACH	17	\$ 50.00	\$ 850.00
9	WATER SERVICE LINE SHUT OFF	EACH	3	\$ 5,000.00	\$ 15,000.00
10	VALVE BOXES TO BE ADJUSTED	EACH	30	\$ 250.00	\$ 7,500.00
3% Contingency					\$ 1,791.00
Bidder's Proposal for making Entire Improvements					\$ 61,491.00

1.5%
to return

Beecher Lead Service Line Replacement Project L175759
Loan Requirement Checklist/Milestone

Item		Status		Milestone
1	Project Planning Approval	IEPA to issue after Public Hearing and Public Comments have been submitted/addressed	IEPA to issue by March 31st	
	Project Summary and Preliminary Environmental Impacts Determination (PEID) Public Hearing	Public Hearing notice to be Advertised by March 6th, 10 days prior to hearing. 10 day comment period following hearing. Submit to IEPA meeting minutes, public comments, certificate of publication, copy of ad before March 31st	March 6th, 16th, and 31st	
2	Certification of Plans/Specs Compliance w/ PWSLP	REL to provide completed form for Village signature	April 15 or as soon as it is ready.	
3	Loan Application Form	REL to provide Loan Application for Village signature	April 15 or as soon as it is ready.	
4	5 Year Financial Projections of Revenue, Operations, Maintenance, & Debt Service	REL to submit to Village to complete.	April 15 or as soon as it is ready.	
5	Ordinance Authorizing Debt	REL to Provide Sample Ord	April 15 or as soon as it is ready.	
6	a. Publication in Local Daily Newspaper b. Certificate of Publication c. No Referendum Certificate d. Legal Opinion of Ord by Attorney	Ordinance and Notice must be published. REL will provide sample Notice Obtained from Newspaper. REL to provide sample certificate REL to provide sample letter	April 25th, or 10 days after ordinance. April 30th, after publication. May 25th, or 30 days after Publication April 15 or as soon as it is ready.	
7	Authorizing Ordinance for Loan Signature	REL to Provide Sample Ord	April 15 or as soon as it is ready.	
8	Certified Water Ordinances a. Water Rate Ordinance	Not needed for Beecher, no debt incurred.	N/A	
9	Tax Exempt Certificate	REL to provide completed form for Village signature	April 15 or as soon as it is ready.	
10	Certificate Regarding Debarment a. Village	REL to provide completed form for Village signature	April 15 or as soon as it is ready.	
11	USEPA Form 4700-4	REL to provide completed form for Village signature	April 15 or as soon as it is ready.	
12	Executive Compensation Data (Five Officer Form)	REL to provide completed form for Village signature	April 15 or as soon as it is ready.	
13	Annual Financial Report	Village to provide 2019 Audit for submittal once completed	Must be submitted to IEPA before they will approve Loan Application	
14	Construction Engineering Services Agreement	Village to provide executed agreement. REL to submit with Loan Appl	April 15 or as soon as it is ready.	
15	Plans & Specifications	REL to submit with Loan Appl	April 15 or as soon as it is ready.	

① HIRAKAWA NOTICE! - OPEN HOUSE FORMS
 LET'S GO WITH TUESDAY, MARCH 17TH AT 7 PM VISITORS 10721.
 - WHO BRINGS MEASURES?

VILLAGE OF BEECHER, ILLINOIS

**LEAD WATER SERVICE & WATER METER
REPLACEMENTS**

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016; the latest editions of the "Supplemental Specifications and Interim Special Provisions" and the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways"; the "Manual of Test Procedures for Materials" in effect on the date of the invitation for bids; the "Standard Specifications for Water and Sewer Main Construction in Illinois", current edition; the Division I General Requirements and Covenants, and the Division II Technical Specifications which apply to and govern the proposed improvement, and in case of conflict with any part, or parts, of said specifications, the said special provisions shall take precedence and shall govern.

However, the Division I General Requirements and Covenants of the specifications shall, in all cases and at all times, govern the work of this contract. Section 100 "General Requirements and Covenants" of the Standard Specifications for Road and Bridge Construction is specifically excluded from this contract.

SCOPE OF WORK

All work shall take place in the area bounded by Indiana Avenue, Oak Park Avenue, Miller Street and Woodward Street, as specified in the attached exhibit, within the Village of Beecher, Illinois (Owner). This contract shall be divided into two options.

OPTION #1:

LEAD WATER SERVICE REPLACEMENT

This work shall consist of the removal and replacement of lead water services for homes within the specified area. New high-density polyethylene (HDPE) pipe service lines shall be installed for full and partial replacement. Full service line replacement shall be defined as connecting from the water main to the water meter inside the building. Partial service line replacement shall be defined as connecting from the curb box to the water meter inside the building. It is the responsibility of the Contractor to verify each service line material type for each building in the specified area and replace those that are made of lead. Work will include documentation and resident interaction.

OPTION #2:

REMOVE AND REPLACE WATER METERS

This work shall consist of the removal and replacement of water meters and new transmitters at each address, as listed in the attached table, and integrate the new water meters into the existing AMR system. New iPERL water meters shall be installed with true encoded registers, meter transceiver units (Sensus MXU FlexNet touch couplers), accessory wires, seals, gaskets and all necessary hardware.

Final restoration for each option listed above shall be the responsibility of the Contractor outdoors and the responsibility of the resident indoors. Acceptable Contractor restoration will be

defined in a pre-work meeting with each resident in the presence of an Owner representative or the Engineer.

All disturbed landscape areas will be fully restored with imported pulverized topsoil and sod. All pavement disturbed by trenching will be patched per the plans and specifications. It is expected that the width of the trench shall be kept to a minimum. The Contractor shall be responsible for installing and maintaining all erosion control measures throughout the duration of the project.

The quantities called for in this contract indicate the approximate amount of work to be expected. The actual amounts for the various items may vary depending upon actual field conditions. The Owner reserves the right to reduce or increase the scope of project quantities and to delete entire line items. It shall be understood and agreed upon that the unit prices for these items shall prevail throughout the period of the contract. No additional compensation per unit price or otherwise will be allowed for any increase or decrease in the quantities. This includes, but is not limited to, decreases due to the deletion of an entire location/section of the improvement. No increase in unit price will be allowed if method of construction changes due to decreased quantity.

FUNDING LIMITS

The Owner has allotted a limited amount of funding for the project. The contract will be limited to the amount of funding available. The Owner reserves the right to delete any part of the bid after the award is made to the Contractor.

PREQUALIFICATION

The Contractor shall have sufficient experience, as determined by the Owner and its representatives, in the field of municipal underground utility construction to warrant release of the bid documents. The Contractor shall provide such documentation as is deemed necessary upon request. If this information is not satisfactorily completed, the bid documents shall be withheld. The Contractor shall have completed at least five (5) municipal water main or service replacement projects in an Illinois or Indiana municipality in the last 10 years, of which water service replacement work represented at least \$100,000 of the contract.

WAGE RATES

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/01 et seq. ("the Act"). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website at:

<https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx>

All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

INSURANCE COVERAGE

The Insurance Requirements can be found in Section 7 of the General Requirements "Legal Relations and Responsibility to the Public". The Contractor and any Subcontractors shall obtain and thereafter keep in force for the term of the contract the insurance coverage specified in this section. The Contractor shall not commence work under the contract until all the insurance required by this section or any Special Provision has been obtained.

Section 7-2.02E Pollution Liability **WILL** be required as part of this project.

Section 7-2.02F Professional Liability **WILL NOT** be required as part of this project.

PROJECT SCHEDULE

The awarded Contractor shall schedule his work such that the water services and water meters shall be operational 120 calendar days after the Contractor receives the Notice to Proceed. Operational shall mean that the newly installed water service and/or water meter is conveying flow from the main into the house, the old water service has been abandoned, all outdoor hardscape has been completely restored, and all indoor work is ready for the resident's contractor to perform final restoration. Sodding restoration work shall be completed by 150 calendar days after the Contractor receives the Notice to Proceed.

It shall remain the Contractor's responsibility to ensure that the contract documents and insurance requirements are met in a timely manner after award as no work will be allowed until this information is received and correct. No adjustment to the project schedule will be made if this requirement is not met. Failure to complete the work on time will result in assessment of liquidated damages in accordance with the applicable section 8-9 of the Division I General Requirements and Covenants.

PERMITS

The Contractor shall be responsible for completing all work in accordance with any permits or licensing required for this project, as well as the provisions of this contract including all necessary bonds and insurance required. Any and all costs associated with insurance and bonding requirements necessary to acquire permits will not be paid for separately, but will be considered incidental to the contract.

TREE PRESERVATION

The Contractor shall be responsible for preserving the existing parkway trees onsite. B-box installation shall be performed to minimize the impact to the parkway trees, including relocation of the service line and the B-box as necessary. Any digging within the root zone and/or root pruning must be approved by the Engineer. Contractor shall hand dig or hydroexcavate around roots when recommended by the Engineer or Village staff. Digging within the root zone shall not be paid for separately, but shall be included in the unit cost for LEAD WATER SERVICE REPLACEMENT. If trees roots must be pruned to preserve the health of the whole tree, tree root pruning shall be paid for under the unit price per EACH for TREE ROOT PRUNING.

PUBLIC UTILITIES

There are existing underground and above ground public and private, municipal and non-municipal utilities at the site, such as, but not limited to, electrical and telephone cables, including fiber-optic facilities, natural gas pipes, sewers, other water mains, etc. The Engineer has attempted to indicate the presence of various Village-owned public utilities within the vicinity of the improvements. All due notifications, vertical/horizontal separations, and other safety precautions required by the owners/operators of the facilities being crossed shall be observed by the Contractor and/or all subcontractors at all times. Any damage caused by the construction to any of the existing facilities on-site shall be promptly repaired to the satisfaction of the owners/operators of the facility involved at no additional compensation.

It shall be the Contractor's responsibility to very carefully inspect the site, identify and locate, both horizontally and vertically, all existing facilities, contact their owner/operators for their notification, separation, and safety requirements, and follow such requirements very carefully. It

shall be the Contractor's responsibility to notify J.U.L.I.E. at least 48 hours prior to excavation to verify locations of all utilities.

The Contractor shall protect and save harmless the Village of Beecher and Robinson Engineering, Ltd from any claim(s) of damage resulting from his/her activities at the site or from failing to undertake due and proper safety measures to avoid such damage to any utilities during the construction.

The Contractor shall repair all damage to any of the utilities caused by his/her work to the satisfaction of the involved utility and the Village of Beecher at no additional compensation. The cost of compliance with this provision shall be considered incidental to the various pay items and will not be compensated for separately.

WORK HOURS

The Contractor may prosecute work between the hours of 7:00 a.m. and dusk each workday, including weekends. Any hours of operation specifically applied by any of the permitting agencies will supersede these hours when doing work at the location covered by the aforementioned permit.

SITE ACCESS

This project will be constructed within the public right-of-ways and in private residences. The Contractor shall notify the Village of Beecher and Robinson Engineering forty-eight (48) hours prior to starting any site work and shall adhere to the requirements in these special provisions when gaining access to private residences.

PUBLIC AND RESIDENT NOTIFICATION

If the Contractor is required to shutoff existing utility service (i.e., water, sanitary, power, communications, and gas) for any reason during the course of this project, the Contractor shall provide 24-hour advance written notice to:

- 1) the Village of Beecher of the scheduled work,
- 2) those residents with connections to the water sections affected by the work, and
- 3) any other residents that may potentially be adversely affected by the construction operations.

The notification shall be of a form and method as approved by the Village of Beecher.

RECORD DRAWINGS

The Contractor shall provide the Village/Engineer with documentation and field notes as described in these special provisions detailing the work of service and meter installation. The cost for providing this information will be considered incidental to the project. Final payment will not be made to the Contractor until these records are reviewed and approved by the Village.

WATER USE

The Contractor desiring to use water from municipal hydrants will be required to make an application to the Village, and if the request is granted, shall conform with the ordinances of the municipality, as well as with the rules and regulations of the Water Department, and will be held responsible for all damages to hydrants and water pipe used for the purposes of securing water. Pipe wrenches approved by the Water Department shall be utilized for opening and closing hydrants and other appurtenances.

When additional water from fire hydrants is necessary to avoid delay in normal work procedures, the water shall be conserved and not used unnecessarily. No fire hydrant shall be obstructed in case of a fire in the area served by the hydrant.

The Village wishes to keep accurate records of the amount of water used for construction purposes. The Contractor shall use an approved water meter to record usage and shall report the total water used to the Public Works Superintendent at the end of each working day. The Contractor will be responsible for the cost of the water billed at the normal residential rate.

VIDEO RECORDING CONSTRUCTION ROUTE

Prior to the start of any construction or excavation, the Contractor shall videotape the existing conditions in the area of the construction. The video recording shall be done on Digital Video Format (i.e. mpeg or avi). The Contractor shall supply the Engineer with two (2) DVDs prior to starting construction. Each DVD shall include the following, but is not limited to:

Full right-of-way	Parkway condition	Pavement condition
Curb condition	Driveway condition	Existing manholes
Fire hydrants	Fences	Trees and landscaped areas
	Front of homes/side-yards	Front yards to homes

The video recordings shall also supply a continuous audio record of the location (preferably with address), all anticipated problem areas, items, and features for the complete area to be affected by the construction.

The video recording shall be made on a DVD or other approved equal and shall conform to Japan Electronics and Information Technology Industries Association (JEITA) standards. The format of recording and type of media used shall remain the same throughout the project. When the recorded video information is replayed and reviewed, it shall be free of electrical interference.

The audio portion of the composite signal shall be sufficiently free of electrical interference, background noise, and heavy foreign or regional accents to provide an oral report that is clear and complete and easily discernible. The audio portion of the video report shall be recorded by the operating technician on the video as they are being produced and shall include references to the street address and type of construction to be performed at the site as specified in the plans. Audio comments pertaining to special circumstances, which may arise during the excavation, shall also be included. Dubbing the audio information onto the video tract after the video is completed will not be permitted.

Video recordings shall be enclosed in vinyl plastic containers, which shall clearly indicate the date the video was taken, the designated section(s) of construction contained on the tape, and the label "VILLAGE OF BEECHER LEAD WATER SERVICE REPLACEMENTS, (Project #19-R0571)." The actual street location shall also be listed on the DVD. One (1) copy of the finished video shall be delivered to the Engineer prior to commencing excavation.

The surface condition of excavated areas after final restoration shall be the same or better than the pre-construction site conditions as shown in the video. The work contained within this special provision shall not be paid for separately but shall be included in the cost of the various contract pay items.

SUBMITTALS

The Contractor shall provide five (5) identical sets of submittal information to the Engineer for review and approval prior to commencement of construction activities. Requirement waived if digital submittals provided. Submittal information generally includes product information, catalog pages, manufacturer's instructions, product warranties, specifications, samples, shop drawings, and proposed substitutions. At a minimum, the following items shall require submittal to the Engineer:

Project Schedule – The Contractor shall submit an initial project schedule. This schedule, along with percentage of completion, shall be revised and submitted along with each application for payment.

Major Components – Specifications for all major components such as piping, meters, fittings, bedding material, valves, and valve boxes. The Contractor shall provide submittals deemed necessary for successful project completion by the Engineer.

If a substitution is proposed, the Contractor shall provide sufficient information to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named may accept materials or equipment of other supplies. However, the burden of proof as to the type, function, and quality of any such substitute material or equipment shall reside with the Contractor. The Engineer shall be the sole judge of whether the proposed substitution is equivalent to the named material or equipment.

MATERIAL INSPECTION REPORTS

The Contractor shall be responsible for material inspection required for various items incorporated in this project. Also, all documentation is to be submitted to the Engineer, immediately following completion of this project. Five percent (5%) of the final contract amount due to the Contractor will be withheld pending receipt of said documentation.

GUARANTEE

All materials and equipment shall be guaranteed for a period of one (1) year from the date of written acceptance by the Village. Upon receipt of notice from the Village of failure of any part of the system during the guarantee period, new replacement parts shall be furnished and installed by the Contractor at no additional cost to the Village of Beecher.

TRAFFIC CONTROL

Traffic Control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, these Special Provisions and any special details and Highway Standards contained herein and in the plans and the Standard Specifications for Traffic Control Items.

Special attention is called to Articles 107.09 and 107.14 and Section 701 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control:

#701006, #701501, #701801, #701901 & IDOT District 1 Standard Detail TC-10

The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other traffic control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the

applicable parts of Article 107.14 of the Standard Specifications and the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways.

The Contractor shall be solely responsible for ensuring that all traffic control devices are installed and maintained in accordance with applicable state standards. Traffic Control and Protection will not be paid for separately, but instead shall be considered included in the various contract pay items.

SAW CUT JOINTS

The removal and/or replacement of any driveways, pavement, curb, sidewalk, etc. shall be accomplished by means of a saw cut joint, at the direction of the Engineer. The work contained within this special provision shall not be paid for separately but shall be included in the cost of the various contract pay items.

STOCKPILING OF MATERIALS AND END OF DAY CLEAN UP

The Village shall designate a specific location for stockpiling of materials prior to the start of construction. Stockpiles shall not impede traffic at any time. Any areas disturbed by stockpiles shall be restored to existing conditions and shall be considered included in the various contract pay items.

At the end of each working day, the Contractor shall provide a steel plate, barricades, warning tape and any other safety measures deemed necessary by the Village over the excavated area so that traffic is not impeded during non-working hours. Access to the property shall be maintained at all times. Placement of temporary aggregate in the roadway and in driveway areas disturbed by the construction shall be used until final conditions are met. Street clean up and sweeping is also required at the end of each working day. The work contained within this special provision shall not be paid for separately but shall be included in the cost of the various contract pay items.

DUST CONTROL

The Contractor shall be responsible for controlling the dust and air-borne dirt generated by his/her construction activities.

The implementation of dust control procedures shall be required if wind and dry soil conditions reduce visibility on adjacent roads and property. Concerns for health and safety to the public using adjacent facilities will be grounds for the implementation of a dust control plan. When circumstances warrant, a specific dust control plan shall be developed. The Contractor and the Engineer shall review the nature and extent of dust generating activities and cooperatively develop specific types of control techniques appropriated to that specific situation. Sample techniques that may warrant consideration include such measures as:

1. Minimize track out of soil onto nearby publicly traveled roads.
2. Reduce vehicle speed on unpaved surfaces.
3. Cover haul vehicles.
4. Apply chemical dust suppressants or water to exposed surfaces, particularly to surfaces on which construction vehicles travel.

Dust control measures as indicated in the Dust Control Plan, or as directed by the Engineer shall be readily available for use on the project site. The work contained within this special provision shall not be paid for separately but shall be included in the cost of the various contract pay items.

AGGREGATE FOR DRIVEWAY, EASEMENT ACCESS AND STREET CROSSING MAINTENANCE

This item of work shall be in accordance with Section 107.09 of the Standard Specifications, which provides for temporary driveway access and street crossings during construction. The cost for furnishing, placing, removing and disposing of excess aggregate will not be compensated for separately but shall be included in the cost of the various contract pay items.

CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS PER 35 IAC 1100

If the Contractor is planning on disposing of uncontaminated soils at an Illinois Environmental Protection Agency (IEPA) permitted CCDD facility, the work shall be conducted in accordance with the criteria set forth in 35 Illinois Administrative Code (IAC) 1100 as amended on August 27, 2012. The following protocol must be followed:

1. The Contractor must identify in writing the name / location of the Contractor's intended CCDD facility to the Owner (or Engineer) prior to the commencement of any construction activities.
2. The Owner (or Engineer) will contact the Contractor's CCDD facility to identify the laboratory testing or certifications required for disposal acceptance.
3. The Contractor will assist the Owner (or Engineer) in obtaining the sample(s) through the use of the Contractor's equipment. The Contractor shall expose soils at one or more distinct locations as directed by the Owner (or Engineer). The Owner (or Engineer) will determine the number, location and depth of the samples that will need to be collected for characterization of the excess soil that will be generated during the construction project.
4. The Owner (or Engineer) will be responsible for sampling / testing of the soil and preparation of the required certification form.
5. The samples will be run with standard 5 to 7 working day turnaround time unless a rush is required by the Contractor. If so, the Contractor will be responsible for additional fees associated with fast-tracking the samples.
6. Once the appropriate certifications have been prepared, the Contractor will be responsible for all hauling/disposal of material at the CCDD facility.

The Owner will test for the following: VOC's, SVOC's, Pesticides, RCRA 8 total metals and pH. If the Contractor elects to utilize a CCDD facility that requires the full MAC list, the Contractor will be responsible for paying all lab testing costs above \$750.00.

The work contained within this special provision shall not be paid for separately but shall be included in the cost of the various contract pay items.

If any contaminated soil is encountered that requires landfill disposal as a non-special waste, special waste or hazardous waste, it will be paid for per Article 109.04 of the Standard Specifications.

EXPLORATORY EXCAVATION

This pay item shall be used to locate unidentified curb boxes and/or watermain appurtenances. However, this pay item shall **NOT** be used to expose/locate existing utilities.

At the request of the Engineer, the Contractor shall conduct exploratory excavations. This work shall comply with the requirements set forth in Section 1.207 of Division II – Technical Specifications: Excavation and Clean-Up. Any excavations to replace a lead water service that

results in the discovery that the service is not lead shall be paid for under this pay item. The Contractor shall be paid at the contract unit price per EACH for EXPLORATORY EXCAVATION, which shall include all associated restoration.

OPTION #1

LEAD WATER SERVICE REPLACEMENT

This item shall include the identification of all lead service lines, the installation of new water service lines via trenchless methods and the connection of the new service line to the water meter inside the building. It is the responsibility of the Contractor to verify each service line material for each building in the specified area and replace those that are made of lead. This work shall be conducted in accordance with AWWA C810-17 – Replacement and Flushing of Lead Service Lines. Full service line replacement shall be defined as connecting from the water main to the water meter inside the building. Partial service line replacement shall be defined as connecting from the curb box to the water meter inside the building.

RESIDENT INTERACTION

A private property access agreement will need to be executed for each property for which a new water service replacement is being installed before the Contractor is allowed access. The private property access agreement will be available through contacting the Owner.

The hours allowed for private property access shall be 7 a.m. to 7 p.m. Monday through Sunday. The Contractor may be required to work evenings and weekends to gain access to perform the installations. The Contractor shall be responsible for the initial contact of the water customers in writing by First Class U.S. Mail to obtain access to private property for each residence. The Owner shall provide informational material regarding lead water service replacement that shall be included with the Contractor's mailing. The Contractor shall make a minimum of three documented attempts to gain access to the residence. If, after three attempts, no contact has been made with the customer, or, if on the first attempt, the customer refuses to allow installation of the new service connection to the meter, the Contractor shall inform the Owner of the address and nature of the problem. The Owner shall then take the necessary steps to secure access to the property for the Contractor to perform the work. If the property owner still refuses to grant the Contractor access involving a lead service line replacement, then the Owner shall provide information to the property owner regarding the risk of lead contamination and document the access refusal.

Once the property owner has notified the Contractor that they are ready to schedule the work, the Contractor shall make an appointment promptly. The first appointment shall be to survey the residence's water meter location and establish the best possible method for water service replacement. The Contractor shall also verify the presence of a lead service line at this time. Approximately 60% of the homes within the project area are predicted to have lead services. The others will have copper or HDPE services. The Contractor and the resident shall come to an understanding on the work to be performed and the restoration associated, including the possibility of electrical re-grounding. The Engineer shall be contacted if any resolution is required. At the first appointment or promptly after, the Contractor shall give the property owner a four-hour maximum time window on the selected day to arrive at the property to do the work. After the work appointment is made, the Contractor shall call the property owner 24 hours in advance to the scheduled appointment to confirm and tell the property owner the name of the installer for this work.

The Contractor will be responsible for providing only licensed plumbers in the State of Illinois for installation of the private water services. All employees of the Contractor entering a home (either licensed plumber or additional apprentice) shall be 18 years of age or older and shall provide photo identification. It will be required that all of the Contractor's staff present themselves in a professional manner and appearance. The Contractor's staff appearance shall

include some sort of uniform shirt with a company logo identifying this staff member as an employee of the Contractor. The vehicle the Contractor and staff use for this project shall be clearly marked with the Contractor's company name.

The installation staff shall be considerate to the owner and their property. For interior work, installation staff are to protect their shoes with new disposable covers for every installation. The Contractor shall minimize tracking or spreading of foreign materials within the residence. If it appears that any of the property will be damaged with the installation of the water service, the Owner shall be contacted before the installation. The disturbed areas within the residence shall be left clean and flush to facilitate restoration. Any disturbance within the residence shall be minimized. Any unnecessary infringement of new water piping or appurtenances into the usable space of the residence shall also be kept to a minimum. The resident shall be notified of the proposed water piping location prior to construction. No debris or water is to be left behind once the installation is complete. Any incidental damage inside the residence that was not planned as part of the service replacement work shall be paid for by the Contractor.

The Contractor shall notify the Engineer if the interior of the building is not suitable for the work to be performed.

The Contractor will be asked to replace lead services at non-residential buildings as part of this project. The Contractor shall incorporate the different service types into the bid unit prices for the work regardless of property use.

HORIZONTAL DIRECTIONAL DRILLING

This work shall consist of Horizontal Directional Drilling of High-Density Polyethylene (HDPE) pipe for water services at locations indicated on the plans or as directed by the Village/Engineer. For FULL service line replacement, the HDPE water service will connect the water main in the street to the water meter inside the building. For PARTIAL service line replacement, the HDPE water service will connect the curb box to the water meter inside the building. The Contractor, resident, and Engineer will determine the best method of penetrating the building for water service installation during the initial appointment.

HDPE and all piping system components shall be the products of one manufacturer and shall conform to the latest edition of AWWA C906, ASTM D1248, ASTM D3350, and ASTM F714. All work shall be completed in accordance with Section 562 of the Standard Specifications.

Piping and Bends shall be extruded from a polyethylene compound and shall conform to the following requirements:

1. The polyethylene resin shall meet or exceed the requirements of ASTM D3350 for PE 3408 material with a cell classification of 335434C, or better.
2. The polyethylene compound shall be suitably protected against degradation by ultraviolet light by means of carbon black, well dispersed by precompounding in a concentration of not less than 2 percent.
3. The maximum allowable hoop stress shall be 800 psi at 73.4 degrees F.
4. The pipe manufacturer shall be listed with the Plastic Pipe Institute as meeting the recipe and mixing requirements of the resin manufacturer for the resin used to manufacture the pipe in this project.
5. The pipe and bends shall have a minimum standard dimension ratio (SDR) of SDR 9 wall thickness or as specified by the Engineer.

6. Joining shall be performed by thermal butt-fusion in accordance with the manufacturer's recommendations.

The Contractor performing the Horizontal Directional Drilling shall have five (5) years of experience installing graded HDPE pressure piping systems. The Contractor shall provide work history of completed projects.

The Contractor shall submit manufacturer's drilling fluids data. Data shall include material specifications, handling procedures, method of mixing and special precautions. Pipe design calculations shall be submitted to the Engineer for review and approval. Drilling fluid shall be bentonite clay mixture. The Contractor may use a polymer additive at Contractor's option. Fluid and additives shall not be hazardous to the environment or adjacent wetlands.

The Contractor shall examine the site(s) indicated. The Contractor shall be responsible for locating the borehole and receiving hole sufficiently back from the limits of excavation to allow connection to the horizontally drilled pipe. Pits shall be of length and width as necessary to install pipes and sized to fit area available for work.

Equipment

The directional drilling equipment shall consist of a directional drilling rig of sufficient capacity to perform the bore and pullback the pipe, a drilling fluid mixing and delivery system of sufficient capacity to successfully complete the crossing, a guidance system to accurately guide boring operations and trained competent personnel to operate the system. All equipment shall be in good, safe operating condition with sufficient supplies, materials and spare parts on hand to maintain the system in good working order for the duration of this project.

The directional drilling machine shall consist of a hydraulically powered system to rotate, push and pull hollow drill pipe into the ground at a variable angle while delivering a pressurized fluid mixture to guideable drill (bore) head. The machine shall be anchored to the ground to withstand the pulling, pushing and rotating pressure required to complete the installation. The hydraulic power system shall be self-contained with sufficient pressure and volume to power drilling operations. Hydraulic system shall be free of leaks. Rig shall have a system to monitor and record maximum pullback pressure during pullback operations. The rig shall be grounded during drilling and pullback operations.

The drill head shall be steerable by changing its rotation and shall provide the necessary cutting surfaces and drilling fluid jets.

GENERAL INSTALLATION

Avoid underground obstructions by steering horizontally around them. Pipe may be installed at greater depths to facilitate the installation if the proposed greater depth is reviewed and approved by the Village/Engineer before installation. No additional compensation shall be allowed for piping or related structures installed at greater depths.

No additional compensation shall be provided for the number of setups required to install the service lines. All setups shall be restored at the Contractor's expense.

The Contractor shall provide adequate protection of the water services when the services are subject to IEPA horizontal and vertical separation requirements, including providing water main quality casings, if necessary.

Excavations to find the existing water main and corporation stop shall be backfilled once work is completed. Backfill shall be to grade to provide a driving surface until the excavation is patched. Any underground or above ground utilities in need of support from the excavation shall be properly supported.

The Contractor shall be responsible for locating any possible conflicting utilities. All excavations to expose/locate existing utilities shall be considered incidental to the this pay item.

The Contractor shall install new connection fittings, HDPE pipe, roadway, curb box (1½" arch type), bedding, and trench backfill with CA-10 as required within the installation limits. All services shall match the size of the existing service line, unless noted otherwise by the Engineer or Owner. HMA patching shall be 5", Class D, Type IV and considered incidental to this pay item.

Corporation stops shall be Mueller H-15000, McDonald 4701 or equal. A full sleeve is required when tapping cast iron water main. This work shall be considered incidental to this pay item.

Curb stops shall be installed in the parkway and in no case shall be positioned in a sidewalk or driveway or buried underground. A cement or brick block shall be placed under each curb stop to ensure stability. All material shall be as approved by the Owner prior to installation.

Prior to beginning the work of connecting the new service inside the house, the water supply to the service line and the property owner shall be shut off to avoid release of particulate lead into the property owner's premises. After all connections have been completed, the Contractor shall flush the water from an outside connection (such as a hose bibb or hose leading from the building side of the meter) to remove any particles in the service line. Flush at full velocity for at least 30 minutes. The Contractor shall then advise the property owner to flush the interior premise plumbing in accordance with the instructions provided in the Owner-provided informational material.

Prior to completion of the work, the Contractor shall provide each resident with a Point of Use water filter that meets both NSF/ANSI 42 and 53 certifications. The Contractor shall have the resident provide a signature to acknowledge receipt of the filter on a form provided by the Owner.

The Contractor shall abandon the existing buried water service in-place and remove and abandon the curb box by cutting it a minimum of twelve inches (12") below the existing ground surface and filling with topsoil. The existing water service shall be cut flush with the basement wall inside the home and plugged with non-shrink grout, and cut on the house side of the corporation stop and capped closed. The section of lead pipe from the wall opening to the meter shall be removed from the house and disposed of by the Contractor.

All materials used for trench backfill under and within two feet (2') of paved areas, including streets, curbs, sidewalks and driveways shall meet the requirements of Article 1003.04 of the Standard Specifications.

All trench widths shall be kept to a minimum during construction operations. The Contractor shall take great care while jetting and tamping during backfilling operations to ensure proper compaction of materials, including areas under unpaved surfaces. All trenches shall be

backfilled to the proper subgrade elevation in accordance with Section 208 of the Standard Specifications.

CLEAN-UP & RESTORATION

Disturbed grass areas shall be restored with 4" of topsoil, sod, and fertilizer. All work shall be in accordance with the applicable portions of Sections 211 and 252 of the Standard Specifications. Topsoil and sod shall be placed within 14 calendar days of disturbance.

180 pounds of fertilizer nutrients per acre shall be applied at a 1:1:1 ratio as follows:

- | | |
|-----------------------------------|------------|
| 1. Nitrogen Fertilizer Nutrient | 60 lb/acre |
| 2. Phosphorus Fertilizer Nutrient | 60 lb/acre |
| 3. Potassium Fertilizer Nutrient | 60 lb/acre |

Watering shall be done as directed by the Engineer, in accordance with Article 252.08 & 252.09 of the Standard Specifications.

If trench settlement occurs, the Contractor shall, at his own expense, perform all additional work, including further jetting, tamping and/or placement of additional aggregate, necessary to ensure both proper compaction of the trench and proper safety for motorists and pedestrians. Should trench settlement occur after surface restoration, the Contractor shall, at his own expense, remove the newly constructed pavement, driveway, curb and/or sidewalk (by straight saw cut joint) and perform all work required to properly compact the trench and prevent further settling. Restoration of the parkway and additional sodding shall also be performed.

TRACER WIRE

Water service installation shall strictly conform to the manufacturer's recommendations and shall include a high strength detectable tracer wire as approved by the Owner/Engineer. The tracer wire shall be a continuous 3/16" bare cable diameter, 7X19 strand core Type 304 stainless steel wire rope, nylon coated, as manufactured by Copperhead. The tracer wire shall be directly on top of the pipe, for the portion located on private property, prior to any backfill being placed and tied to and/or wrapped around the bolts of fittings or as deemed necessary by the Owner/Engineer. The Contractor shall provide compression type splices as necessary. The tracer wire shall be terminated at each end. The wires shall be stripped and attached to stainless steel screws.

ELECTRICAL GROUNDING

The Contractor shall be responsible for hiring and coordinating with a Licensed Electrical Subcontractor to maintain a proper grounding for the house after the lead service line has been removed.

ALTERNATIVE METHODS

Alternative methods of constructing the lead service line replacement may be evaluated as submittals. Contractor will be held to bid price for this pay item regardless of method.

DOCUMENTATION

For each lead service line replacement, the Contractor shall provide the Owner with the following documentation:

- Digital photograph of each building with address clearly visible

- Digital photographs of water main and meter connection locations showing new pipe and old pipe in the same location
- Digital photographs of the exterior and interior pre-installation and post-installation conditions on private property
- Length and material type of new pipe installed
- Type of pipe material the new pipe is connected to inside the building
- Method of installation
- Approximate length and location of any abandoned lead service line pipe left in the ground
- Flushing time and locations
- Form signed by resident to verify receipt of filter

The above documentation shall be provided by the Contractor to the Owner in digital format (utilizing Adobe Acrobat, Microsoft Word, or other Owner-approved software on CD, DVD, thumb drive, or other Owner-approved media).

MEASUREMENT AND PAYMENT

The cost for the materials, work associated with horizontal directional drilling of the service, excavation, bracing and supporting all utilities exposed by the excavations, trench backfill, sidewalk, parkway, lawn, and street restoration, curb and gutter removal and replacement, penetrating the building envelope for the proposed water service, reconnection of the water services, coordination for private property access, initial residence interior survey, outdoor private property restoration to the original condition, disposal from materials inside the house, resident interaction, restoring the interior of the house to a neat and flush finish, cutting, plugging, crimping, and disposal of lead pipes, flushing, documentation, and other tasks included in this special provision shall be included for at the contract unit price per EACH for (TYPE SPECIFIED) LEAD WATER SERVICE REPLACEMENT, (SIZE SPECIFIED).

REMOVING AND RESETTING STREET SIGNS

As deemed necessary by the Engineer, street signs shall be excavated completely, including concrete bases, and stored in a location where they will be protected from any damage. Street signs will be reset at the same depth at which they were originally installed after work in the area of the sign has been completed, and prior to restoration. During the time when the sign is removed, a temporary sign provided by the Village shall be placed to fulfill the purpose of the removed sign. All work and materials associated with removing and resetting street signs, including excavation of the sign, transport and preservation of the sign, temporary signage, and resetting of the sign, shall be paid for at the contract unit price per EACH for REMOVING AND RESETTING STREET SIGNS.

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"

This work shall consist of placing hot-mix asphalt driveway pavement in accordance with the applicable articles of Section 202, 351 and 406 of the Standard Specifications.

The existing aggregate base will be graded and compacted prior to the placement of hot-mix asphalt. The contractor shall provide any extra aggregate needed to bring the stone to the proper elevation prior to asphalt placement. This work and material will be considered included in the cost of HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4".

The areas noted in the plans for this item shall be restored with 1-3/4" Hot-Mix Asphalt Surface Course, Mix "D", N50 and 2-1/4" Hot-Mix Asphalt Binder Course, IL-19.0, N50.

This work will be paid for at the contract unit price per SQUARE YARD for HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3", which includes grading, compacting and placement of 1-3/4" hot-mix asphalt binder course and 1-1/4" hot-mix asphalt surface course as well as the appropriate amount of prime coat, tack coat and additional aggregate.

SANITARY SEWER SERVICE ADJUSTMENTS

This item shall include the adjustments of any sanitary sewer services as needed for installing the water services. The Contractor shall make every attempt possible to avoid these facilities, and if in the opinion of the Engineer, the facilities are damaged due to carelessness by the Contractor, no compensation will be made for the replacement of same.

If adjustment of certain services is necessary, the work shall be done in a workmanlike fashion, minimizing the downtime of the residents' services, and shall include all necessary labor and materials to properly complete the adjustment. Work on these items shall be paid for at the unit price bid EACH for SANITARY SEWER SERVICE ADJUSTMENT

Ductile iron sewer pipe shall be used for the replacement of any sanitary sewer house services.

OPTION #2

REMOVE AND REPLACE WATER METERS (SPECIFIED SIZE)

This item shall include the installation of water meters and new transmitters at each address, as listed in the attached table, and integrate the new water meters into the existing AMR system as specified herein. All work on the water system shall be performed by Illinois licensed plumbers in accordance with the Illinois Plumbing Code and all other applicable local codes.

COORDINATION

The Contractor shall coordinate REMOVE AND REPLACE WATER METERS work with LEAD SERVICE LINE REPLACEMENT work. Duplicate efforts and involvement shall be minimized.

RESIDENT INTERACTION

A private property access agreement will need to be executed for each property for which a new water meter is being installed before the Contractor is allowed access. The private property access agreement will be available through contacting the Village. The hours allowed for private property access shall be 7 a.m. to 7 p.m. Monday through Sunday. The Contractor may be required to work evenings and weekends to gain access to perform the installations. The Contractor shall be responsible for the initial contact of the water customers in writing by First Class U.S. Mail to obtain access to private property for each residence. The Owner shall provide informational material regarding water meter replacement that shall be included with the Contractor's mailing. The Contractor shall make a minimum of three documented attempts to gain access to the residence. If, after three attempts, no contact has been made with the customer, or, if on the first attempt, the customer refuses to allow installation of the new service connection to the meter, the Contractor shall inform the Owner of the address and nature of the problem. The Owner shall then take the necessary steps to secure access to the property for the Contractor to perform the work. If the property owner still refuses to grant the Contractor access involving a water meter replacement, then the Owner shall document the access refusal.

Once the property owner has notified the Contractor that they are ready to schedule the work, the Contractor shall make an appointment promptly. The first appointment shall be to survey the residence's water meter location and establish the best possible method for replacement. The Contractor and the resident shall come to an understanding on the work to be performed and the restoration associated. The Engineer shall be contacted if any resolution is required. At the first appointment or promptly after, the Contractor shall give the property owner a four-hour maximum time window on the selected day to arrive at the property to do the work. After the work appointment is made, the Contractor shall call the property owner 24 hours in advance to the scheduled appointment to confirm and tell the property owner the name of the installer for this work.

The Contractor will be responsible for providing only licensed plumbers in the State of Illinois for installation of the private water services. All employees of the Contractor entering a home (either licensed plumber or additional apprentice) shall be 18 years of age or older and shall provide photo identification. It will be required that all of the Contractor's staff present themselves in a professional manner and appearance. The Contractor's staff appearance shall include some sort of uniform shirt with a company logo identifying this staff member as an employee of the Contractor. The vehicle the Contractor and staff use for this project shall be clearly marked with the Contractor's company name.

The installation staff shall be considerate to the owner and their property. For interior work, installation staff are to protect their shoes with new disposable covers for every installation. If it

appears that any of the property will be damaged with the installation of the water meter, the Owner shall be contacted before the installation. The disturbed areas within the residence shall be left clean to facilitate restoration. Any disturbance within the residence shall be minimized. Any unnecessary infringement of new water piping or appurtenances into the usable space of the residence shall also be kept to a minimum. The resident shall be notified of the proposed water meter installation location prior to construction. No debris or water is to be left behind once the installation is complete. Any incidental damage inside the residence that was not planned as part of the water meter replacement work shall be paid for by the Contractor. Prior to beginning the work on the removal of an existing meter, or in the case in which work cannot be completed because of existing site conditions, take digital photos using a digital camera, smart phone, or smart device. Photos shall include immediate work area, existing meter layout, and a photo of the face of the meter in which the meter reading is legible. In each photo, the Contractor shall include a whiteboard on which the installation address is legibly written.

The Contractor shall notify the Engineer if the interior of the residence is not suitable for the work to be performed.

MATERIAL AND EQUIPMENT

The Contractor shall furnish all water meters, flanges, gaskets, security wire, seals, outside reading devices or meter interface units, cable, and all other necessary appurtenances to complete each installation. The Contractor shall supply all necessary tools and equipment for the complete installation and testing of each meter.

SIZE

If meter size differs from the below table, the Contractor shall notify the Engineer and Owner immediately for direction on how to proceed.

Service Size	Proposed Meter Size
3/4"	3/4"
1"	3/4"
1-1/2"	1-1/2"
2"	2"

INSTALLATION AND WORKMANSHIP

The Contractor shall determine if the existing interior valve is operable and located close to the water service entrance point. If the existing valve is not operable, the Contractor shall attempt to shut-off water service utilizing the Owner's existing exterior curb box. If the existing curb box is inoperable, the Contractor shall notify the Owner of the problem and reschedule the installation. The Contractor shall not remove or replace any inoperable interior water valves unless specifically directed by the Owner.

Installation of water meters and appurtenances shall be performed by skilled workers thoroughly experienced in such work. All piping and cable work shall be properly supported and aligned and shall present a neat and workmanlike appearance. All piping shall be cut square, burrs removed, and, if necessary, reamed after cutting. Piping and cable shall be run in straight lines parallel to building walls and floors.

Meters shall be installed horizontally two (2) to four (4) feet above the floor with the dial pointing up. Outside reading devices (ORD) or meter interface units shall be visually and physically

accessible and located approximately forty-two (42") inches above the ground on the front of the building or as approved by the Owner. The outside reading device (ORD) is to be the MXU (meter transceiver unit) FlexNet Smart Point or Engineer written approved equal. The outside reading device (ORD) shall be located as close as possible to the cable entrance hole.

GROUNDING

The Contractor shall notify the Owner of any improperly grounded water meters. If directed by the Owner, the Contractor shall furnish and install grounding straps and wires and properly ground the new water meters in accordance with the Illinois Electrical Code and all local codes.

RECEPTACLE OR METER INTERFACE UNIT AND CABLE

Before drilling the cable entrance hole, the Contractor shall ensure its location is free of interference from electrical wiring, beam ends, piping, or other obstructions.

The Contractor shall drill a 1/4" diameter hole, slanting slightly upwards to minimize rain entrance and shall thread the cable through the entrance hole. The Contractor shall mount the receptacle housing or meter interface unit in accordance with the manufacturer's specifications.

TESTING

After installation is complete, the Contractor shall test all components of the installation with the proper testing equipment as follows:

- The Contractor shall open all valves and check for leaks. The Contractor shall correct all leaks as necessary.
- The Contractor shall run water through the meter and check to ensure the meter operates properly.
- The Contractor shall check the reading of the register and receptacle or meter interface unit for proper operation.
- The Contractor shall test the wiring between the receptacle and meter to verify proper connectivity.
- The Contractor shall verify and confirm the proper operation of the transmitter.
- The Contractor shall program the unit with the Owner's unique password and verify proper operation.

REJECTED EQUIPMENT

The Contractor shall, at his own expense, replace or satisfactorily adjust or repair all units rejected for failure to comply with these specifications.

METER AND TRANSMITTER SEALING

The meter and transmitter shall each be sealed with a standard wire and hermetically sealed. The meter seal shall extend through both the meter couplings and meter register.

METER RECORD SHEET

The Contractor shall complete a meter installation record sheet for each installation noting the address, receptacle or transmitter number, date installed, meter serial number, meter size, meter readings on both the old and new meters, meter location, receptacle or transmitter location, electronic register identification number, meter transceiver unit identification number, and materials used in the installation. The Contractor shall submit the meter record sheet to the Owner within five (5) days of installation. A copy of all meter record sheets shall be included with the invoice requesting payment.

Removed meters shall be returned to the Owner.

METER MANUFACTURER

Meter manufacturer will be Sensus or Engineer approved equal. The acceptable meter model shall be: iPERL or Engineer approved equal.

All meters $\frac{3}{4}$ " thru 2" shall meet or exceed the performance required by the "Standard Specifications for Cold Water Meters" – C-700 and C-710 latest revision issued by AWWA or as otherwise stated, including test flows, head loss and accuracy standards.

Meters shall be magnetic meters with electronic encoder registers. Fluidic oscillator and ultrasonic meters shall not be acceptable. Registers must be permanently attached to the meters without the ability to remove the register from the magnetic meter flow tube.

LENGTH

Meter lengths must conform to the chart below:

Meter Size	Lay Lengths
$\frac{3}{4}$ " Short	7- $\frac{1}{2}$ "
$\frac{3}{4}$ " Regular	9"
1"	10- $\frac{3}{4}$ "
1-1/2"	13"
2"	15"

CASES

All meters shall have a non-corrosive crystalline engineered resin outer case with an integral flow tube which cannot be removed from the case. The composite body shall be completely lead-free and meet the AB1953, ANSI/NSF Standard 61 requirements.

All meters shall have imprinted on them the size and direction of water flow through the meter.

There shall be no removable parts on the meter and all components shall be one piece. The register shall be encapsulated in glass. Screw terminals that penetrate the register are not acceptable. The connection between the meter and the wiring shall be through an inductive coupling.

MEASURING CHAMBER

The measuring chamber shall be a flow tube composed of crystalline engineered resin and shall be cast as part of the main case.

The measuring chamber shall have no moving parts and utilize a magnetic flow sensor. Positive displacement and velocity meters are unacceptable.

A rectangular measurement section within the flow tube shall be utilized to achieve the best physics for measurement accuracy.

A pulse of current within a drive coil inside the measuring chamber shall be used to magnetize a piece of remnant magnetic material. The magnet shall then hold a magnetic field constant. As water flows through the magnetic field, a current is generated and is proportional to the volume of water flowing through the meter.

Sterling electrodes shall be utilized to reverse the electromagnetic field as necessary.

REGISTER

All register components shall be contained in a permanently hermetically sealed, tamperproof enclosure made of glass, covered with a composite lid. The register shall be permanently attached to the meter flow tube. The register for meter sizes $\frac{3}{4}$ " thru 2" cannot be removable.

The register must be a liquid crystal display with visual indicators for meter reading, leak indicator, and battery indicator. The register shall have a 9-digit display with 8 of the 9 wheels readable and programmable.

Registers shall have a published battery warranty lasting 20 years. The first 10 years is a full replacement warranty and the second 10 years is prorated according to manufacturer's proration schedule.

An external register box assembly is not acceptable.

The register output data format shall be 7-bit ASCII (American Standard Code for Information Interchange) digital, plus an even parity bit.

Upon interrogation with a touch type pad or AMR product, the register will transmit an odometer reading containing from 1 to 8 digits (field programmable) and a user defined alphanumeric identification of up to 12 characters (field programmable) to the Owner's reading system.

Encoders with a mechanical brush in contact with the odometer wheel shall not be acceptable.

The register shall also have the ability to be programmed to output a factory set, non-programmable identification number, Owner-specified text of up to 20 alphanumeric characters (field programmable), a reading multiplier (field programmable), and/or a reading measurement unit indicator (for example, US Gallons – field programmable).

Data is to be positive true. The register's ASCII digital output is to be capable of interfacing directly to an AMR transponder.

CHANGE GEARS

Change gears shall not be allowed to calibrate the meter.

PERFORMANCE

Meters shall operate up to a working pressure of 150 pounds per square inch (psi), without leakage or damage to any parts. The accuracy shall not be affected by variation in pressure up to 150 psi.

Meters shall meet the flow ranges indicated in the following chart:

Meter Size	Normal Operating Flow Range, GPM (98.5 % - 101.5%)		Low Flow Registration, GPM (95% - 101.5%)
¾" Short	0.11	35	0.03
¾"	0.11	35	0.03
1"	0.40	55	0.4
1-1/2"	2	150	0.75
2"	2.5	200	1.0

Meters shall be able to indicate an empty pipe situation. If the meter is bypassed or taken out of service, an alarm shall be sent to the Owner via the meter reading system.

Meters shall have the capability to indicate reverse flow conditions within the meter.

Meters shall indicate if electrodes have been damaged at any point during the life of the meter.

Meters shall indicate magnetic failure due to tampering efforts.

Meters shall have the ability to store 5,000 data points for data logging information, including peak flow and volume, in a predetermined interval.

INSTALLATION CONTRACTOR WARRANTY

The Contractor will be responsible for plumbing leaks due to the meter installation only for a period of one (1) year from the date of the installation. Any potential plumbing problems will be directed to the Owner or building owner, prior or to meter installation. If the meter installation is attempted without prior notification, the Contractor will be responsible for all plumbing leaks due to the meter installation.

REMOVE AND REPLACE INTERIOR WATER VALVE

If the Contractor determines the existing interior water valve is not operable, the Contractor will remove and replace the existing interior water valve. The Contractor shall remove and replace any existing interior water valves prior to the installation of a new water meter.

EXTRA WORK

If extra work is required, the Contractor shall notify the Owner immediately in writing of the nature and cost of the extra work. The Contractor shall not perform any extra work without first obtaining written authorization from the Owner.

WARRANTIES

The System Supplier shall be required to state its warranty and/or guarantee policy with respect to each item of proposed equipment. The procedure for submitting warranty claims must also be provided. The System Supplier must state performance guarantees for the complete system. A warranty shall be required for transmitter battery life of 20 years. The registers shall be warranted for 10 years. Other hardware and software shall be warranted for at least one year from the date of acceptance by the Owner for defects in materials and workmanship with on-site repair including all labor, maintenance, and transportation costs.

MAINTENANCE AND SUPPORT

In addition to warranty periods, the System Supplier shall provide information on maintenance programs beyond the warranty period for both hardware and software. The location and procedures for obtaining such support will be stated by the System Supplier. The System Supplier shall provide all necessary documentation and training for correct maintenance of all of the system components.

START-UP AND TRAINING

The System Supplier shall inform the Owner of the necessary pre-installation activities to be completed in addition to the required support material necessary for the initial installation. The System Supplier shall provide up to two (2) days of on-site start-up services and training for the Owner and Resident Project Representative in all aspects of the metering system's hardware and software. The System Supplier shall also provide on-site training for the Owner in the care and repair of meters and remote units, installation procedures and operation of interrogators. Complete installation and operating instructions shall be included for all of the supplied hardware and software equipment. The System Supplier shall cooperate with the Owner's data processing department to ensure a smooth transition of data conversion from the interrogator to computer input and use of software programs.

MEASUREMENT AND PAYMENT

All costs associated with removing and replacing water meters and integrating the new water meters into the automatic meter reading system as specified herein shall be paid for at the contract unit price per EACH for REMOVE AND REPLACE WATER METER (SPECIFIED SIZE/TYPE).

All costs associated with grounding water meters as specified herein shall be paid for at the contract unit price per EACH for GROUNDING OF WATER METER.

All costs associated with removing and replacing interior water valves as specified herein shall be paid for at the contract unit price per EACH for REMOVE AND REPLACE INTERIOR WATER VALVE (SPECIFIED SIZE).

WATER METER CONSTRUCTION INSPECTION, MEASUREMENT, AND PAYMENT

The Contractor shall supply a list of completed meter installations on a periodic basis (at a minimum with each payment request) using a spreadsheet. This information is to be provided in an excel spreadsheet to the Owner's Representative as well as hard copy to the Owner. Prior to the recommendation of each payment request, the Engineer shall review and approve the work completed.

The Engineer shall review/confirm the meter installation and specified size for the location are matched to the installation checklist. The Engineer shall review the functionality of the meter with the use of the mobile automatic meter reading (AMR) system device and verify the meter readings were successfully obtained and uploaded to the supplied computer system.

Upon approval of the supplied list of completed meter installations by the Engineer, the Engineer will recommend payment to the Village. The Owner will retain ten percent (10%) of each payment request and shall not be reduced until final completion and all installed meters have been reviewed and approved for payment by the Village plumbing inspector and Engineer.

WATER SERVICE LINE SHUT OFF

This pay item shall apply to all homes where the curb box could not be identified, the service line is not to be replaced, and the curb box is no longer functional.

This item shall include the removal of the existing curb stop and box and the open cut installation of a new water service shut off and all necessary appurtenances at the property line, in the utility easement, or at a location as directed by the Engineer. All work shall be completed in accordance with Section 562 of the Standard Specifications. The Contractor shall mark the location of the proposed water service shut off valve installation for approval by the Owner and Engineer. The Contractor shall install new fittings, match existing pipe material/size, install new roundway with threaded F.I.P ends, curb box (Minneapolis Pattern screw on), connection fittings (Mueller or approved equal), excavation, bedding, and trench backfill with CA-10 as required within the installation limits. The removal and abandonment of the existing curb box shall also be included in this item of work.

After the water service line shut off has been installed, the Contractor shall provide a completion of an installation checklist. The completed forms shall be provided to the Owner with each payment request for water service line shut off installation completion.

Curb stops shall be the screw on Minneapolis Pattern type. They shall be installed in the parkway and in no case shall be positioned in a sidewalk or driveway or buried underground. A cement or brick block shall be placed under each curb stop to ensure stability. All material shall be as approved by the Owner prior to installation. All disturbed areas for the above described work shall be restored to its existing condition or better and shall be incidental to this pay item. This work will be paid for at the contract price per EACH of WATER SERVICE LINE SHUT OFF. Trench backfill for these services shall be incidental to this item.

VALVE BOXES TO BE ADJUSTED

This pay item shall apply to all homes where the curb box could not be identified, the service line is not to be replaced, and the curb box is functional.

Water valve boxes to be adjusted or replaced shall be completed in accordance with Section 603 of the Standard Specifications. This pay item is for all public valve boxes (diameter 6" and greater) located within or behind the edge of pavement. The Contractor shall adjust the box by digging the top piece such that it may be turned to the finished grade. Cast iron inserts may be used only if they are adjustable by screwing in to the existing top piece or resting firmly on the existing box. Mortar or tar shall not be used to hold an insert in place.

The existing material surrounding the valve box to be adjusted shall be removed by means of a straight saw cut, and replaced in like kind to the limits as directed by the Engineer in the field.

This work shall be paid for at the contract unit price per EACH for VALVE BOXES TO BE ADJUSTED which price shall include all material and equipment to perform the work specified above.

Village of Beecher Wastewater Treatment Plant

Monthly Report

Month; JANUARY:2019 2020

Year: 2019 2020

Total Gallons. MGD

Influent : 25.439 MGD

Daily Maximum: 2.439 MGD

Effluent: 28.677 MGD

Daily Maximum: 2.673 MGD

Minimum: 0.589 MGD .

Average Daily Flow: 0.925 MGD

.

Excess Flow: 2.437 MGD

Chlorine Used (Lbs): 0 .

Excess Treated: 2.437 MGD

Rainfall/Precipitation: 7.21 Inches

Return Sludge: N/A : MGD

Dry Sludge Removed (Cubic Yards): 0

Liquid Sludge Hauled Gallons: 0 gals

Laboratory Information ;. Effluent

5 Day CBOD Avg: 3.6 mg/l . (Daily max): 4.4 mg/l
Total Suspended Solids Avg : 2.0 mg/l (Daily max): 2.0 mg/l
Ammonia Nitrogen Avg: 2.5 mg/l (Daily Max): 3.0
average removal rate BOD 97.0% average removal rate Suspended Solids 98.5%

.Laboratory Information; Influent

Average 5 Day BOD: 100.5 mg/l Average TSS: 114.0 mg/l
Ammonia Nitrogen Avg: 19.50 mg/l (Daily max) : 20.0 mg/l

Equipment issues,repairs,maintenance.

. Clarifier monthly maintenance performed. Clarifier #1 out of service for rebuild, Clarifier # 2 back in service. *OXIDATION DITCH Aeration Tank #3 in service , new Aerators #5 and #6 in service Synagro removed 29 bags of grit from Aeration tanks #1 and #2 clean out. Aeration tanks #1 and #2 out of service for upgrades. *AERATOR #3 drive shafts removed by IHSC for Superior Pump for repairs. *BLOWER monthly maintenance performed.,, RAS FLOW METER ,will be replaced during the Oxidation Ditch upgrade, ., Non Potable Water System in service leak issues seems to be resolved.

***.Monthly DMR lab analysis performed and completed.**

***Monthly Final Effluent and Raw Influent ammonia nitrogen .samples analysis performed and completed by Arro Laboratory Inc.. .**

***Monthly Upstream/Downstream samples collected , analysis**

performed and completed by Suburban Laboratories Inc., Month December 2019 samples

***Quarterly** Final Effluent Toxicity Samples collected for Biomonitoring Special

Condition 21 ,analysis performed and completed by Paragon Laboratories, report submitted to the IEPA, , December 2019 NPDES DMR reports completed and submitted to the IEPA.

PLANT PROCESS CONTROL

Continue implementing an activated sludge process control monitory analysis consisting of monitoring daily , weekly, monthly aeration tanks solids inventory, mixed liquor suspended solids,settling,,Ph analysis, dissolved oxygen,analysis, flow adjustments, return sludge monitoring and adjustments, secondary clarifier blankets monitoring,sludge wasting rates adjustments and improvements, microscopic analysis of micro biological activity in the system, balancing sludge digestion in digestors through wasting, decanting,.

Sincerely,

A handwritten signature in black ink, appearing to read "John Hernandez", with a long, sweeping horizontal stroke extending to the right.

John Hernandez, Chief Operator WWTP

DRAFT Potential Grandfathered Schedule

TIP ID Municipality Project Location Phase Federal Cost Total Cost Target Letting Date Notes

FY 21 \$7,661,747

12-15-0002 Will Bell Rd

C

FY 21 Total

\$ 4,500,000 \$ 6,500,000

11/6/20 Ready to go in 20, Needs to go in 21

Left to Program \$ 3,161,747

FY 22 \$7,490,142

12-06-0013 Plainfield 143rd St Extension

C

\$ 2,822,076 \$ 21,877,924

2022 Needs to be in 22. Open to traffic 2023

12-16-0023 Beecher Penfield

C

\$ 3,320,000 \$ 4,425,000

Targeting 1/21?

12-16-0023 Beecher Penfield

CE

\$ 354,000 \$ 442,500

Targeting 1/21?

FY 22 Total

\$ 6,496,076 \$ 26,745,424

Left to Program

\$ 894,066

FY 23 \$7,095,034

12-18-0034 New Lenox Haven @ Cedar

C

\$ 1,758,000 \$ 1,560,000

2023 applying for cost increase. Choosing between 23 & 24

12-11-0052 Plainfield 127@ Pftd/Npvl Rd

C

\$ 1,400,000 \$ 1,750,000

2023 Might apply for cost increase

12-16-0001 Monee Manhattan-Monee Rd

C

\$ 2,376,000 \$ 3,540,000

FY 23, 24 or 25?

FY 23 Total

\$ 5,534,000 \$ 3,310,000

Left to Program

\$ 1,561,034

FY 24 \$7,095,034

12-06-0034 Minooka McEvilly

C

\$ 1,200,000 \$ 3,700,000

D3, Will happen after completion of Ridge Road

12-18-0020 Plainfield Renwick

C

\$ 1,498,000 \$ 1,760,000

2024 Might apply for cost increase

FY 24 Total

\$ 2,698,000 \$ 5,460,000

Left to Program

\$ 4,397,034

FY 25 \$7,095,034

FY 25 Total

\$

Left to Program

\$ 7,095,034

FY 21	\$ 7,661,747
FY 22	\$ 7,390,142
FY 23	\$ 7,095,034
FY 24	\$ 7,095,034
FY 25	\$ 7,095,034
TOTAL	\$ 36,336,991
Grandfathered Total	\$ 19,288,076
\$ to new Projects	\$ 17,048,915



PUBLIC WORKS

PUBLIC WORKS DEPARTMENT

MATT CONNER - SUPERINTENDENT – 17TH YEAR

JIM PRATL – FOREMAN – 9TH YEAR

STEVE ZELLNER – MM2/WATER OPERATOR – 17TH YEAR

NICK STRBA – MM2/CLASS 3 SEWER/METER TECH – 10TH YEAR

LARRY STENGER – MM1 – 4TH YEAR

ALEX WITKOWSKY – MM1 – 2ND YEAR

CARTER CRANDALL – PROBATIONARY MM1 – 1ST YEAR

BRAYDEN BAKER – PROBATIONARY MM1 – 1ST YEAR

2019 COMPLETED PROJECTS

PROPOSALS FOR THE DESIGN OF DIXIE HWY CROSS-OVER MAINS

INSTALLED INSERT-A-VALVE ON BLOCK & WOODWARD

INSTALLED NEW PLAYGROUND AT FIREMAN'S PARK

INSTALLED SLIDE & LANDSCAPING AT LION'S PARK

**WELL UPGRADES – MOVE SCADA MASTER COMPUTER TO PUBLIC
WORKS SHOP & REPLACED ALL LIGHTNING PROTECTION**

VALVE TURNING PROGRAM – COMPLETED NORTH OF CHURCH ROAD

PATCHED UPWARDS OF \$50,000 WORTH OF ROADS

INSIDE & OUTSIDE RENOVATION OF STORAGE HUT AT 533 REED

SIDEWALK REPLACEMENT AND NEW INSTALL

MUDJACKING IN OLDER PART OF TOWN

CURB REPLACEMENT IN NEWER SUBDIVISIONS

BUILT NEW LEAF COLLECTION BOX AT A COST SAVINGS OF \$7,000

MANY STORM TILE REPAIRS THROUGHOUT TOWN

13 WATER MAIN BREAKS

4 SERVICE LINE REPAIRS

STREET DEPARTMENT

TREES TRIMMED (CONTRACTOR) 3

TREES TRIMMED (PUBLIC WORKS) 17

TREES & STUMPS REMOVED (CONTRACTOR) 5

TREES REMOVED (PUBLIC WORKS) 24

TOTAL STUMPS GRINDED (CONTRACTOR) 57

STUMP RESTORATIONS (PUBLIC WORKS) 59

PARKWAY TREES PLANTED (CONTRACTOR) 13

TOTAL MEMORIAL TREES PLANTED (LION'S PARK) 1

LOADS OF LEAVES COLLECTED - 64

YARDS OF BLACK DIRT FOR RESTORATION – 105

TONS OF COLD PATCH – 35 TONS

TONS OF ROAD SALT – 700

CATCH BASINS LARVICIDED – 1,397

SIDEWALKS MUDJACKED – 77 SQUARES

SIDEWALKS – 112 SQUARES REPLACED

CURBS REPLACED – 12 ADDRESSES = 88 FEET

DAMAGED STREET NAME SIGNS REPAIRED – 4

SINK HOLES REPAIRED – 7

STORM LINE REPAIRED – 42' - VARIOUS LOCATIONS

MANHOLE REPAIRS - 2

2019 VEHICLE MILEAGE

<u>YEAR:</u>	<u>EQUIPMENT:</u>	<u>MILEAGE</u>	<u>AGE:</u>
1995	INTERNATIONAL DUMP	53,382 MILES	25
2006	INTERNATIONAL DUMP	151,624 MILES	14
2005	BUCKET TRUCK	68,511 MILES	15
1984	WATER MAIN VAN	46,674 MILES	36
2019	F-250	14,579 MILES	1
2005	2500 PICK-UP TRUCK	140,358 MILES	15
2006	MINI DUMP	93,426 MILES	14
2004	FLAT BED	86,826 MILES	16
1991	STAKE BED	MILES	29
2011	F-250	128,899 MILES	9
2015	F-350	32,802 MILES	5
2005	IMPALA – SEWER PLANT	MILES	15
2003	INTERNATIONAL DUMP	28,853 MILES	17
2017	F-450 MINI DUMP	20,468 MILES	3

2019 EQUIPMENT HOURS

<u>YEAR:</u>	<u>EQUIPMENT:</u>	<u>HOURS:</u>	<u>AGE:</u>
2020	JOHN DEERE BACKHOE	42	3 MONTHS
2016	NEW HOLLAND SKID STEER	341	4
2016	NEW HOLLAND PARK TRACTOR	396	4
1965	FORD TRACTOR	1,263	55
????	NEW HOLLAND PARK RUSTLER	297	??
2012	JOHN DEERE GATOR	685	8
1994	O.D.B LEAF MACHINE	2,517	26
1996	SEWER JETTER	585	24
2007	VERMEER CHIPPER	1,864	13
2009	JOHN DEERE ZERO TURN – PARK	1,010	11
????	JOHN DEERE RIDING MOWER	418	??
2013	CUB CADET – RT.1 FLOWER TRACTOR	407	7
2010	TORO - ZERO TURN	853	10
2011	TORO - ZERO TURN	908	9
2013	TORO - ZERO TURN	730	7
2016	TORO - ZERO TURN	348	3
2004	LEAF MACHINE	1,315	16
2019	JOHN DEERE MINI – EXCAVATOR	156	

2019 EQUIPMENT HOURS

<u>YEAR:</u>	<u>EQUIPMENT:</u>	<u>HOURS:</u>	<u>AGE:</u>
2019	SEWER PLANT GENERATOR	22	1
1988	WELL #3 GENERATOR	623	32
2007	CARDINAL CREEK LIFT STATION GENERATOR	427	13
1991	SEWER PLANT 8" PUMP	N/A	29
	GRADE SCHOOL 8" PUMP	N/A	N/A

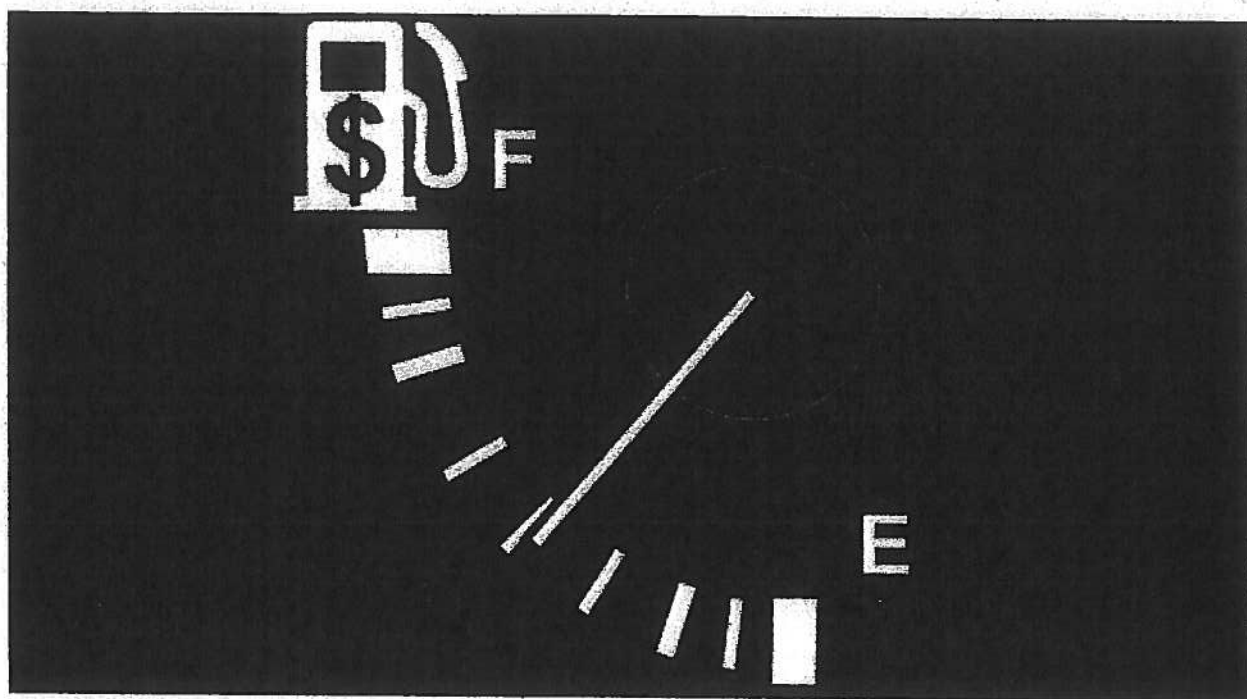
2019 VEHICLE MAINTENANCE REPORT

VEHICLE: DATE: ODOM/HRS: MAINTENANCE: COMPANY:

*2017 F-450	7-8-19	16,967 MI	OIL CHANGE/FILTER	IN HOUSE
	9-17-19	18,567 MI	BATTERY REPLACED	IN HOUSE
	10-10-19	19,000 MI	NEW FRONT TIRES	BAHLMAN'S
*2015 F-350	2-21-19	27,000 MI	REPLACE BACK WINDOW	MIDWEST GLASS
	5-20-19	28,677 MI	OIL CAHNGE/FILTER	IN HOUSE
	7-8-19	29,987 MI	BATTERY REPLACED	IN HOUSE
*2011 F-250	2-5-19	119,267 MI	NEW WINDSHIELD	MIDWEST GLASS
	3-8-19	120,150 MI	REPAIR HEADLIGHT WIRING	DIAMOND DIESEL
	5-2-19	121,664 MI	NEW REAR BRAKES	BECKER'S
	6-5-19	122,665 MI	BRAKE BACKING PLATE	BECKER'S
	10-23-19	127,039 MI	NEW PLOW HARNESS	IN HOUSE
	11-27-19	127,889 MI	REPLACE STARTER	IN HOUSE
*2019 F-250	1-26-19	2,000 MI	ECU REPROGRAM	TERRY'S FORD
	2-10-19	3,200 MI	PLOW ISSUES	LINDCO
	6-15-19	8,300 MI	OIL CHANGE/FILTER	IN HOUSE
*2006 1-TON	1-24-19	88,959 MI	OIL CHANGE/FILTER	IN HOUSE
	12-17-19	93,249 MI	ENGINE REPLACED	ILLIANA AUTO
*2005 2500	6-9-19	139,389 MI	OIL CHANGE/FILTER	IN HOUSE
*2004 3500	12-18-19	86,580 MI	OIL CHANGE/FILTER	IN HOUSE

VEHICLE:	DATE:	ODOM/HR:	MAINTENANCE:	COMPANY:
*1984 CUBE VAN	2-12-19	46,578 MI	OIL CHANGE/FILTER REPLACE MIRRORS – ROTATE TIRES	IN HOUSE IN HOUSE
*2005 BUCKET	4/2019	????	BOOM INSPECTION	POWER EQUIPMENT
*2005 5-TON	1-15-19 2-20-19	147,650 MI 148,021 MI	NEW FUEL TANK – BRAKE RELAY BELT'S & AIR CLEANER	TOM'S TRUCK IN HOUSE
*2003 8-TON	2-6-19 11-1-19 11-30-19	N/A N/A N/A	BRAKE REPAIRS TRANSMISSION CODES NEW BATTERIES	TOM'S TRUCK TOM'S TRUCK IN HOUSE
*1995 8-TON	7-22-19	51,586 MI	KING PINS-BRAKES-BATT CABLES	TOM'S TRUCK
*2019 MINI-EX	10/2019 11/2019	5 HRS 31 HRS	REPLACE BUCKET PINS REPLACE ZIRK FITTINGS	WEST SIDE TRACTOR WEST SIDE TRACTOR
*2020 BACKHOE	N/A	N/A	N/A	N/A
*2016 SKID STEER	N/A	N/A	N/A	N/A
*2016 TRACTOR	1-16-19	305 HRS	OIL CHANGE/FILTERS	IN HOUSE
*1965 TRACTOR	N/A	N/A	N/A	N/A
*2012 GATOR	1-16-19	615 HR	OIL CHANGE/FILTERS/BATTERY	IN-HOUSE
*NH RUSTLER	1-16-19	239 HR	OIL CHANGE/FILTERS	IN-HOUSE
*2010 TORO	1-16-19	809 HR	OIL CHANGE/FILTERS/BLADES/GREASE	IN-HOUSE
*2011 TORO	1-16-19	835 HR	OIL CHANGE/FILTERS/BLADES/GREASE	IN-HOUSE
*2013 TORO	1-16-19	641 HR	OIL CHANGE/FILTERS/BLADES/GREASE	IN-HOUSE
*2017 TORO	1-16-19	211 HR	OIL CHANGE/FILTER	IN-HOUSE
*2009 JD PARK	1-16-19	N/A	OIL CHANGE/FILTERS/BLADES/GREASE	IN HOUSE

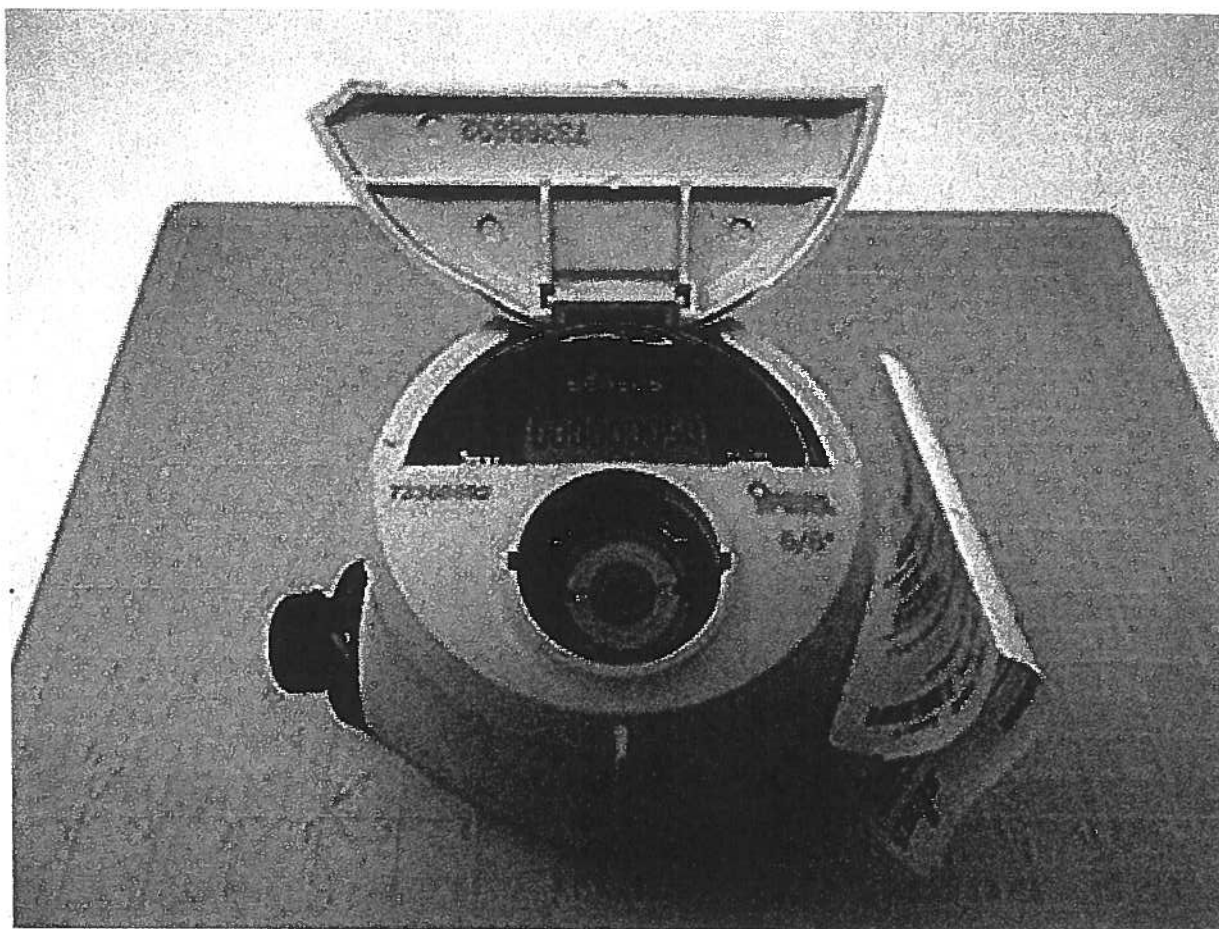
VEHICLE:	DATE:	ODOM/HRS:	MAINTENANCE:	COMPANY:
*2013 CUB	3-22-18	390 HR	OIL CHANGE/FILTER	IN-HOUSE
*1994 LEAF	9-15-19	N/A	OIL CHANGE/FILTERS	IN HOUSE
*2004 LEAF	9-15-19	N/A	OIL CHANGE/FILTERS	IN-HOUSE
	10/2019	N/A	REPAIR SHOOT	IN HOUSE
*2007 CHIPPER	7-25-19	N/A	NEW KNIVES	IN HOUSE
*1996 JETTER	2-12-19	567 HR	OIL CHANGE/FILTERS	IN HOUSE
			PLUGS – AIR & ERG FILTERS	
*1996 KOHLER(12)	11/2019	N/A	SERVICED/TESTED	METRO-POWER
*?? PW KOHLER(45)	11/2019	N/A	SERVICED/TESTED	METRO POWER
*???? LIGHT TOWER	11/2019	N/A	SERVICED/TESTED	METRO POWER
*PD GENERATOR(60)	11/2019	N/A	SERVICED/TESTED	METRO POWER



FUEL REPORT

2019 FUEL SUMMARY

<u>MONTH:</u>	<u>GASOLINE:</u>	<u>DIESEL FUEL:</u>	<u>COST:</u>
JANUARY	466 GALLONS	298 GALLONS	\$2,008.69
FEBRUARY	953 GALLONS	528 GALLONS	\$3,889.45
MARCH	552 GALLONS	432 GALLONS	\$2,154.25
APRIL	543 GALLONS	301 GALLONS	\$1,827.14
MAY	516 GALLONS	502 GALLONS	\$2,248.31
JUNE	721 GALLONS	360 GALLONS	\$2,331.94
JULY	736 GALLONS	490 GALLONS	\$2,668.92
AUGUST	822 GALLONS	414 GALLONS	\$2,920.67
SEPTEMBER	663 GALLONS	393 GALLONS	\$2,509.88
OCTOBER	650 GALLONS	411 GALLONS	\$2,528.87
NOVEMBER	572 GALLONS	403 GALLONS	\$2,332.33
DECEMBER	487 GALLONS	511 GALLONS	\$2,424.17
<u>TOTAL:</u>	<u>7,682</u>	<u>5,041</u>	<u>\$29,884.17</u>



METER PROGRAM

SERVICE ORDERS

<u>MONTH:</u>	<u>NEW:</u>	<u>CHANGE OUT:</u>	<u>MXU INSTALL ONLY:</u>	<u>PUCK READING:</u>	<u>TOTAL:</u>
JANUARY	0	18	1	3	22
FEBRUARY	2	7	0	7	16
MARCH	0	7	0	2	9
APRIL	0	0	0	0	0
MAY	0	17	0	1	18
JUNE	1	4	24	0	29
JULY	0	10	0	0	10
AUGUST	0	2	0	0	7
SEPTEMBER	0	19	4	3	26
OCTOBER	6	10	34	6	56
NOVEMBER	0	13	0	2	15
DECEMBER	0	3	0	3	6

TOTAL METER APPOINTMENTS FOR 2019

214

2019 GALLONS OF WATER PUMPED

MONTHLY AVERAGE: 14,391,833

DAILY AVERAGE: 473,156

YEARLY TOTAL: 172,702,000

<u>WATER PUMPED</u>	<u>WELL #3</u>	<u>WELL #4</u>	<u>WELL #5</u>	<u>TOTAL</u>
JANUARY	4,117,000	5,260,000	3,715,000	13,092,000
FEBRUARY	3,988,000	5,246,000	3,851,000	13,085,000
MARCH	4,296,000	5,137,000	3,750,000	13,183,000
APRIL	3,917,000	5,147,000	3,711,000	12,775,000
MAY	4,102,000	5,956,000	3,734,000	13,792,000
JUNE	4,731,000	5,584,000	3,922,000	14,237,000
JULY	6,735,000	6,871,000	3,994,000	17,600,000
AUGUST	4,833,000	7,937,000	4,036,000	16,806,000
SEPTEMBER	4,060,000	7,193,000	3,702,000	14,955,000
OCTOBER	4,159,000	5,988,000	3,985,000	14,132,000
NOVEMBER	4,289,000	5,860,000	4,093,000	14,242,000
DECEMBER	4,480,000	6,149,000	4,174,000	14,803,000

PEAK DAY FOR EACH MONTH:

JANUARY 8TH - 422,000

FEBRUARY 4TH - 548,000

MARCH 10TH - 558,000

APRIL 28TH - 511,000

MAY 20TH - 553,000

JUNE 10TH - 847,000

JULY 2ND - 1,102,000

AUGUST 23RD - 775,000

SEPTEMBER 28TH - 598,000

OCTOBER 4TH - 554,000

NOVEMBER 29TH - 759,000

DECEMBER 2ND - 546,000

WATER TREATMENT

	<u>CHLORINE:</u>	<u>AQUA MAG:</u>
JANUARY	452.6 POUNDS	2,047 GALLONS
FEBRUARY	409.4 POUNDS	2,043 GALLONS
MARCH	500.1 POUNDS	1,986 GALLONS
APRIL	446.1 POUNDS	1,914 GALLONS
MAY	529.0 POUNDS	2,058 GALLONS
JUNE	587.7 POUNDS	2,313 GALLONS
JULY	710.0 POUNDS	2,907 GALLONS
AUGUST	695.7 POUNDS	2,591 GALLONS
SEPTEMBER	595.6 POUNDS	2,333 GALLONS
OCTOBER	573.0 POUNDS	2,088 GALLONS
NOVEMBER	597.0 POUNDS	2,008 GALLONS
DECEMBER	603.7 POUNDS	2,090 GALLONS

City of Joliet

Alternative Water Source Program Implementation

Strategic Plan – Version 2.0

Prepared by Allison M. W. Swisher, P.E.
Director of Public Utilities
January 2020

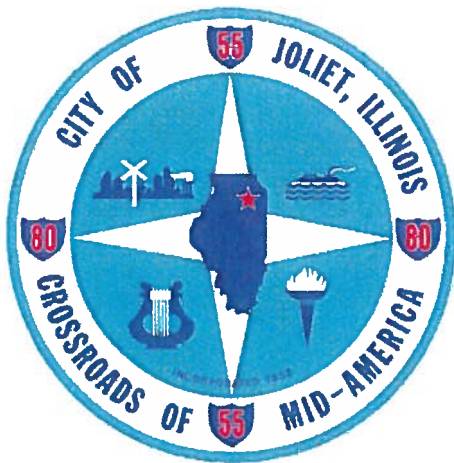




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Introduction

The City of Joliet's existing water source, the deep groundwater aquifer, will be depleted to the point of not being able to meet the City's maximum day water demands by the year 2030. This is a regional problem. Groundwater modeling conducted by the Illinois State Water Survey indicates that the deep groundwater wells in Joliet and neighboring communities will someday be depleted to the point of no longer being able to supply the region's future water needs. Knowing this, the City of Joliet embarked on an Alternative Water Source Study to determine alternative water sources which could be used by not only the City of Joliet, but possibly the region as a long-term, sustainable, reliable water source.

The Alternative Water Source Study began in July of 2018 and was completed in two phases. Fourteen alternatives were evaluated in the Phase I Study. These fourteen alternatives covered the full range of possible water sources including groundwater, rivers and Lake Michigan. The Phase I Study was completed in January 2019 and recommended five alternatives for further evaluation as feasible alternative water sources. The Phase II Study took a more in depth look at the five alternatives in order to determine the improvements that would be required to implement each alternative. The Phase II alternatives included Illinois River, Kankakee River, Lake Michigan Water – Chicago Department of Water Management, Lake Michigan Water – DuPage Water Commission and Lake Michigan Water – New Indiana Intake. Per a letter dated December 4, 2019 from the DuPage Water Commission, they do not want to be considered as an alternative water source supplier for the City of Joliet. Therefore, the evaluation for this option was removed from the Phase II Study. The Phase II Study evaluated the alternatives based on cost, raw water quality, sustainability/water quantity, implementation risk, operation & maintenance, and control (governance). The Phase I and Phase II Studies are available on the project website at <https://www.rethinkwaterjoliet.org/reports>.

On December 10, 2019 the City's Environmental Commission voted to recommend the City pursue Lake Michigan – New Indiana Intake as the primary alternative water source option and Lake Michigan – Chicago Department of Water Management as the secondary water source option. This recommendation was presented for approval by the City Council on January 7, 2020 and the City Council approved pursuing both Lake Michigan options simultaneously in 2020 with a final decision on supply to be made at the end of 2020. Implementation of the Lake Michigan – New Indiana Intake option will include the following activities: new raw water intake and pumping, raw water transmission, raw water treatment, finished water pumping and storage, finished water transmission, receiving station, distribution system modifications, storage in the Joliet water system, back-up water sources, and nonrevenue water reduction. Implementation of the Lake Michigan – Chicago Department of Water Management option will include the following activities: finished water pumping and storage, finished water transmission, receiving station, distribution system modifications, storage in the Joliet water system, back-up water sources, and nonrevenue water reduction.

The following strategic plan has been prepared for implementation of the City's new water source. Within this plan the vision, mission and core values for the program are stated. Then a Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis is completed. With this information the program's strategic direction and goals for the next ten years are identified.



Alternative Water Source Program

The program consists of the planning, design and construction of a new water source for the City of Joliet by 2030. Due to the complexities and unknowns associated with the water source alternatives, both the Lake Michigan – New Indiana Intake and Lake Michigan – Chicago Department of Water Management alternatives will be simultaneously investigated during the initial part of preliminary design with a final decision to be made by the end of 2020.

The Lake Michigan – New Indiana Intake alternative consists of the construction of a new raw water intake in Lake Michigan on the Indiana shoreline, pumping facilities and transmission mains to bring raw water to the City of Joliet for treatment and distribution throughout the existing system. The conceptual implementation costs for this alternative range from \$900 million to \$1.1 billion depending upon capacity. Major considerations for the program include:

- ◆ High Quality Raw Water Source from Lake Michigan
- ◆ Control over water rates and implementation
- ◆ Sustainable water quantity to serve Joliet and potentially the region now and in the future

The Lake Michigan – Chicago Department of Water Management alternative consists of purchasing water from the City of Chicago at the Southwest Pumping Station and construction of pumping facilities and transmission mains to bring finished water to the City of Joliet for distribution throughout the existing system. The conceptual implementation costs for this alternative range from \$500 - \$600 million depending upon capacity, not including purchased water costs. This alternative will consider two variations: Joliet owned transmission main or Chicago owned transmission main. Major considerations for the program include:

- ◆ High Quality Raw Water Source from Lake Michigan
- ◆ Existing water system
- ◆ Sustainable water quantity to serve Joliet and potentially the region now and in the future

Stakeholders

Identification and engagement of stakeholders was initiated during the Phase I study and it is critical that this engagement be continued throughout implementation. Stakeholders will play a major role in the success of the program and the implementation of this Strategic Plan. Stakeholders for Joliet's new water source are:

- ◆ Customers: Residents of the City of Joliet, Businesses and Industry, and Satellite Communities.



- ◆ Elected Officials: Joliet City Council and Mayor.
- ◆ City Committees: Public Service Committee, Finance Committee, Water Conservation Subcommittee.
- ◆ Department Heads: City Manager, Public Works, Legal, Finance, IT, Community Development, Human Resources.
- ◆ Employees: The employees working for the utility department who will need to operate and maintain the new infrastructure.
- ◆ Potential Regional Partners: Nearby communities and/or industries who rely on the same natural resources.
- ◆ Regulatory Agencies: The Illinois Environmental Protection Agency, the Indiana Department of Environmental Management, the Illinois Department of Natural Resources, the Indiana Department of Natural Resources, and the United States Army Corps of Engineers may need to issue permits for construction and operation of the new infrastructure depending upon final alternative selection.
- ◆ Permitting Entities: Entities such as the Illinois Department of Transportation, Indiana Department of Transportation, Will, Cook and Lake (Indiana) County Department of Transportations, Will County and Cook County Forest Preserves, Illinois Tollway Authority, ComEd, Natural Gas Companies, Railroads, Townships and Municipalities that may need to grant access for transmission main construction depending upon final transmission main route.
- ◆ Land Acquisition Partners: Property owners within vicinity of water facility improvements and along transmission routes.
- ◆ Environmental Action Groups: Local, Regional and National groups that are concerned with the program's impact on the environment.
- ◆ Community Groups: Neighborhood Councils, Homeowner Associations, Rotary, Lions Club, Chamber of Commerce, City Center Partnership, Spanish Cultural Center, Churches.
- ◆ Schools: Public and Private Schools including elementary, middle, high school and higher education.
- ◆ Media: Local radio, television and newspapers.
- ◆ Legislators: State and National representatives.
- ◆ Water Industry: Engineers, contractors, manufacturers, and academia.



Vision

The vision statement provides a future oriented declaration of the program's purpose. The statement provides inspiration to stakeholders. The vision statement for the City of Joliet Alternative Water Source Program is:

To be recognized by our customers, employees, elected officials, regulatory agencies, regional partners and the water industry as a leader in providing sustainable, reliable and high-quality water in an innovative and efficient manner for our community.

Mission

The mission statement identifies the program's objectives and incorporates overall goals. It will be used to guide the actions of the program. The mission statement for the City of Joliet Alternative Water Source Program is:

To provide a sustainable, reliable and high-quality water supply for Joliet and potentially the region by 2030 in order to support the public health, safety and economic interests of the community.

Core Values

The core operating values articulate ideals that the City intends to hold itself accountable to in order to carry out its mission. The core values for the City of Joliet Alternative Water Source Program are:

- ◆ Public Safety: Provide safe drinking water that meets and exceeds all regulatory requirements.
- ◆ Environmental Stewardship: Protect natural resources from harm.
- ◆ Transparency and Honesty: Operate openly and honestly to gain stakeholder trust.
- ◆ Innovative and Creative Solutions: Identify and utilize new ideas to provide more efficient and effective water service.
- ◆ Sustainability: Provide sufficient water quantity to support community growth and development.
- ◆ Reliability: Consistent and dependable water service.
- ◆ Cooperation & Collaboration: Emphasize the importance of teamwork amongst Stakeholders in order to accomplish positive outcomes.
- ◆ Leadership: Champion regional participation for the benefit of all.



- ◆ Commitment: United approach to achieve the program mission and vision.
- ◆ Open Mindedness: Receptive to input from Stakeholders.
- ◆ Flexibility: Ability to adapt to changing conditions that may impact program implementation.
- ◆ Fiscal Responsibility: Utilize public funds efficiently and in the best interest of our customers.
- ◆ Education: Guide the public in rethinking our water source, their water use, how we can conserve and the value of water.

SWOT Analysis

The SWOT analysis identifies the program's strengths, weaknesses, opportunities and threats. Strengths and weaknesses are internal while opportunities and threats assess external activities that may impact the program.

Strengths

- ◆ Experience: Over 100 years of experience as a water utility meeting all regulatory requirements.
- ◆ Management: Committed and motivated staff willing to undertake a program of this magnitude.
- ◆ Elected Official Support: Mayor and council who understand the need for a new water source and support the program.
- ◆ Alternative Water Source Study: Defensible evaluation of alternative water sources to support selection of new water source.
- ◆ Independence: Ability to implement the new water source without requiring the involvement of other communities.
- ◆ High credit rating: Credit rating will allow for borrowing at low interest rates.
- ◆ Comprehensive Land Use Plan: Land use planning is currently underway in the Community Development Department that can be utilized to inform future water demand projections.
- ◆ State Revolving Fund Loan Experience: The City has a history of utilizing SRF loans and has shown it is a reliable and responsible funding recipient.



Weaknesses

- 💧 Aging infrastructure: Water pipes are over 100 years old and are prone to failure.
- 💧 High levels of non-revenue water: Over 25% of water pumped annually is not billed.
- 💧 Staff: No experience or capacity to operate a surface water treatment plant and maintain infrastructure outside of Joliet.
- 💧 Unreliability of existing water source: The deep aquifer is unsustainable.
- 💧 Scope of Program: Program complexity with magnitude of improvements, permitting, and land acquisition.
- 💧 Value of Water: Currently low water rates have led to water being taken for granted and lack of conservation.

Opportunities

- 💧 WIFIA Loan Availability: The City has been invited to submit a low interest WIFIA loan application for up to 49% of the program costs.
- 💧 State Revolving Fund Loan Availability: IEPA willingness to work with City to maximize SRF loan funding.
- 💧 Technology: Improvements in technology that will allow for efficient and effective operations.
- 💧 Regional Cost Optimization: Partnering with other communities for a regional solution that will achieve lower water costs for the region.
- 💧 Updated Groundwater Modeling: Improved model by the Illinois State Water Survey available to guide short term water decision making needs.
- 💧 Water Conservation: Achieve lower water use per capita to minimize sizing of improvements.
- 💧 Water Demand Planning: Use of Comprehensive Plan to incorporate capacity for future growth in sizing of improvements.
- 💧 Heightened Water Awareness: Take advantage of increased interest in water to further understanding of the value of water.



Threats

- ◆ Regulations: New regulations from permitting agencies.
- ◆ Legal Challenges: Lawsuits from Environmental Action Groups or other impacted parties.
- ◆ Leadership Changes: Potential leadership changes at City Council, City staff, potential regional partners and program team.
- ◆ Existing Water Source: Continued aquifer depletion that could result in water restrictions until new water source is online.
- ◆ Water Supply & Access Uncertainty: Negotiations for water supply and access to occur during preliminary design.
- ◆ Regionalization: Inability to obtain concurrence on governance structure and community participation for potential regional solution.
- ◆ Schedule: Magnitude of work to be completed by known deadline of 2030 - failure of which would result in significant impact to City's ability to supply water to customers.
- ◆ Short Term Water Needs: Timeline to implement necessitates cost for maintenance and expansion of existing water source to meet water demands until 2030.
- ◆ Cost: Uncertainties inherent to conceptual planning could result in significant cost fluctuation upon project completion.
- ◆ Permitting: Changing requirements, timeframe and number of permits could impact implementation.
- ◆ Water Quality: Impacts to water quality due to changing water chemistry from water source switch.
- ◆ Contaminants of Emerging Concern: Currently unregulated source water constituent concentrations determined to be a health concern in the future.
- ◆ Land Acquisition: Challenges purchasing property for water facilities construction and obtaining permanent and temporary construction easements for transmission and distribution system improvements.



Strategic Direction

Based upon identification of the strengths, weaknesses, opportunities and threats the strategies to be taken in the next ten years to carry out the City of Joliet Alternative Water Source Program mission are:

- ◆ Continue to educate customers regarding the need and cost of implementing a new water source via an updated public relations strategy.
- ◆ Provide regular updates to the City Council, Public Service Committee and Finance Committee to allow for sound decision making.
- ◆ Take a leadership role in bringing together potential regional partners and agencies and be openminded to potential regional governance structures.
- ◆ Proactively engage environmental action groups and other impacted parties.
- ◆ Retain a team of experts who can implement all aspects of the program including engineering, legal, public relations, and planning.
- ◆ Develop a permitting plan and initiate discussions with permitting agencies in the early stages of program development to identify and mitigate any concerns early in the process.
- ◆ Maintain program transparency via regular stakeholder group meetings.
- ◆ Improve awareness of the importance of water conservation and provide incentive programs to encourage conservation.
- ◆ Implement Short Term Groundwater Strategies to maintain existing water supply.
- ◆ Elevate the value of water as a vital resource to the public health, safety and economic interest of the community.
- ◆ Prioritize demand management including non-revenue water reduction and water conservation efforts for optimization of improvement capacity.
- ◆ Develop a political strategy to garner support for the program from local, state and federal legislators.
- ◆ Establish a funding strategy that will most cost effectively implement the program.
- ◆ Maintain water quality throughout water source transition.
- ◆ Prepare a contracting plan for construction to meet scheduling needs and to optimize funding.
- ◆ Proactively identify and mitigate project implementation risks.



- ◆ If required, conduct pilot testing of different water treatment unit processes to confirm all existing water quality regulations will be met and evaluate treatment system's ability to meet, or can be economically modified to meet, potential contaminants of emerging concern.
- ◆ Initiate land acquisition processes in the early stages of the program to allow sufficient time to acquire targeted properties or easements, but also allow sufficient time to switch to alternative properties or routes if needed.
- ◆ Maintain and update this Strategic Plan as a living document to guide the program.

Goals & Objectives

In order to fulfill the strategic direction, the City of Joliet has identified goals and objectives that address three key aspects of the program. These goals and key decision points are identified in the Appendix 1 - Implementation Plan Timeline.

Program Oversight and Outreach

- ◆ Monthly newsletter distributed to City Council and Stakeholders.
- ◆ Monthly update presentations to Public Service Committee.
- ◆ Quarterly update presentations to full City Council.
- ◆ Quarterly update presentations to Finance Committee.
- ◆ Quarterly stakeholder group meetings.
- ◆ Monthly Water Conservation Subcommittee Meetings and implementation of subcommittee goals: Incentivize water conservation programs and policies; empower citizens and business owners to conserve water; educate the public on conservation opportunities; motivate people to take action to reduce water consumption.
- ◆ Prepare and implement a public relations plan that will reach all stakeholders.
- ◆ Maintain project specific website.

External Coordination

- ◆ Retain lobbyists to represent the City's interests at a federal and state (IL and IN) level.
- ◆ Retain government affairs professional to aid in regional water discussions, development of political strategy and land acquisition.



- ◆ Conduct negotiations with Indiana communities for Lake Michigan access and City of Chicago for water supply with legal review and approve access agreement or water supply agreement by January 2021.
- ◆ Obtain Lake Michigan allocation from the Illinois Department of Natural Resources.
- ◆ Meet with financial advisor to develop funding strategy. Investigate public-private partnership opportunities.
- ◆ Initiate regional partner outreach and develop regional governance structure with legal guidance and rates by June 2021 (if applicable) and have regional governmental agreements approved by the end of 2021.
- ◆ Identify, appraise and acquire property and easements required for construction of improvements.
- ◆ Coordinate with USEPA and IEPA for low interest loan programs. Submit WIFIA loan application in December 2021.
- ◆ Obtain construction and operating permit from the Illinois Environmental Protection Agency.
- ◆ Obtain all other permits necessary for construction.

Engineering

- ◆ Issue a request for qualifications and select the project team that has expertise in raw water lake intakes, water treatment plant design, transmission main and pumping design, and distribution system modifications by April 2020.
- ◆ Develop and maintain risk register.
- ◆ Perform location and partnering study for new Indiana Intake.
- ◆ Perform routing and siting studies in 2020:
 - Chicago Department of Water Management – From Southwest Pumping Station to Joliet
 - New Indiana Intake – From Lake Michigan to Joliet
 - With water treatment plant located in Illinois close to Illinois/Indiana border to maximize potential finished water partners/customers
 - With water treatment plant located in Joliet to enhance water quality and ease operations



- ◆ Work with Illinois EPA to develop and implement a water source transfer plan which will address potential water quality issues as a result of switching to a new water source.
- ◆ Develop a staffing plan to identify staff required for implementation of the program and operation of the improvements including timeframe for hiring. Evaluate options (public versus private) for operation of facilities outside Joliet. Hire engineering support staff for program assistance. For New Indiana Intake alternative, hire Water Treatment Superintendent at start of construction to guide staff development and training for operation of a surface water treatment plant ahead of plant start-up.
- ◆ Conduct annual non-revenue water audits. Implement the non-revenue water reduction plan which includes replacing 1.6% of the City's water mains annually beginning in 2022 in order to reduce non-revenue water to less than 10% within 20 years
- ◆ Continue to participate in the Southwest Water Planning Group to facilitate groundwater modeling updates and regional discussions.
- ◆ Implement short term groundwater management strategies including groundwater monitoring, well rehabilitation and development and make decision on new well to support growth.
- ◆ Select water supply alternative in December 2020 and:
 - In case of New Indiana Intake, Water Treatment Plant Location Approach
 - In case of Chicago Department of Water Management, transmission main ownership (construction, operation and maintenance)
- ◆ Identify and obtain concurrence for final sizing of the improvements inclusive of regional participation and City's Comprehensive Land Use Plan.
- ◆ Complete preliminary design (30% engineering) by December 2021 and final design (100% engineering) by December 2024 to allow for the commencement of construction in 2025.
- ◆ Conduct independent value engineering, constructability and cost reviews during final design.
- ◆ Construction, start-up and initiation of operation by 2030.
- ◆ Post-transition water quality monitoring to minimize the risk of negative water quality impacts and achieve compliance with regulatory requirements.



Implementation

In order for the goals identified in this strategic plan to be realized, proper implementation is necessary. The plan for implementation is as follows:

- ◆ Obtain resolution from City Council approving strategic plan.
- ◆ Present strategic plan to stakeholders and obtain input.
- ◆ Review and update strategic plan.
- ◆ Identify person(s) who are responsible for carrying out each task.
- ◆ Prepare a schedule for achieving tasks.
- ◆ Identify means by which implementation of tasks identified in plan can be measured.
- ◆ Review and revise strategic plan every six months

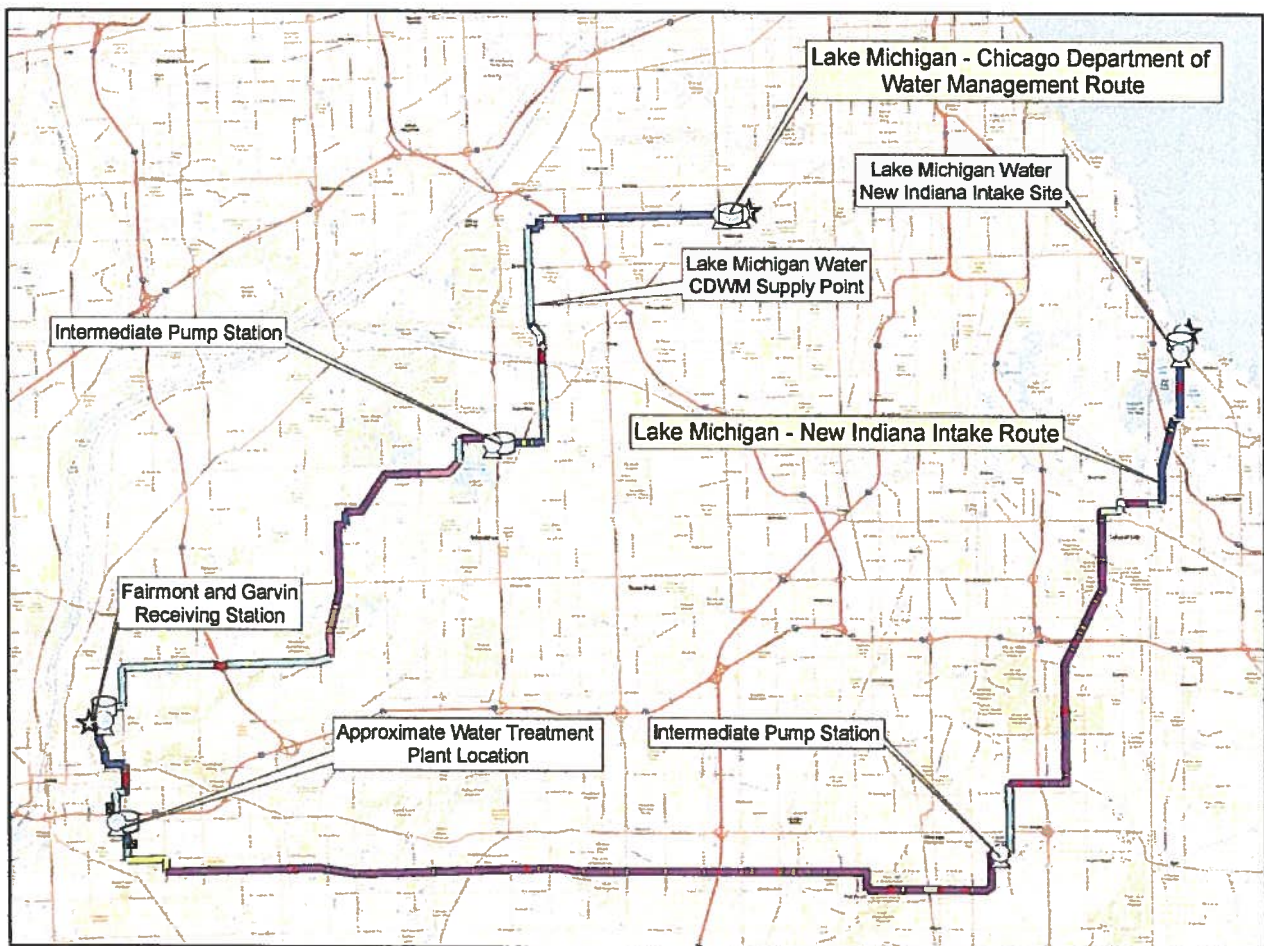
Evaluation

Evaluation is a key component of the success of this strategic plan and should be conducted every six months throughout the program implementation timeframe. Questions to ask during evaluation include:

- ◆ Are the tasks being implemented as planned? Why or why not? What is facilitating or impeding implementation?
- ◆ Do team members have the needed resources to achieve goals?
- ◆ Are there goal areas that are receiving less attention than others? Why?
- ◆ Are there any recommendations for improvement?
- ◆ Are stakeholders active and engaged?
- ◆ Is there a need to change the plan?



The implementation of an alternative water source will be the most significant and costly program that the City of Joliet will embark on this century. This Strategic Plan provides a framework that the City can utilize throughout the implementation to recognize strengths, weaknesses, opportunities and threats and identify ways to mitigate threats and take advantage of opportunities, resulting in a successful program for the City and its residents.



Disclaimer: The location of facilities associated with these alternatives are approximate for the purpose of conceptually estimating costs. Siting of proposed facilities will be evaluated during preliminary design following water source alternative selective.

Beecher- Azavar Government Solutions Quarterly Client Update
February 2020



Client Name	Note Type	Details
Beecher	A. Gas Revenue (Taxes and Fees) Audit	Azavar has corrected 2 addresses that will return an estimated \$63.84 per annum to the Village.
Beecher	B. Electric Revenue (Taxes and Fees) Audit	Azavar has corrected 11 addresses that will return an estimated \$1,060 per annum to the Village. Azavar is working with the Provider to collect back taxes owed.
Beecher	C. Cable Revenue (Taxes and Fees) Audit	Audit Complete — Azavar has found 0 address errors . Azavar has concluded the settlement for back franchise fees and has recovered \$1,064.09 .
Beecher	D. Telecommunications Revenue (Taxes and Fees) Audit	<p>Due to recent changes in the state statute, telecom audits now require address lists be sent to them rather than them sending their lists to Azavar. Because of this, Azavar must insure that the addresses that get submitted match the data in the Provider's database perfectly so as to prevent accidental removal of addresses that should be coded to the municipality.</p> <p>Azavar is working on a solution so as to insure that there is no accidental loss of revenues in the audit process.</p>
Beecher	E. Hotel/Motel Revenue (Taxes and Fees) Audit	Not applicable.
Beecher	F. Sales Tax Revenue (Taxes and Fees) Audit	Review complete—no findings.
Beecher	G. Food and Beverage Revenue (Taxes and Fees) Audit	Not applicable.
Beecher	H. Gas Payable Audit	Azavar is coordinating with the Provider to confirm account corrections.
Beecher	I. Electric Payable Audit	The Village has declined pursuing the audit at this time.
Beecher	J. Telecommunications Payable Audit	Azavar has corrected billing errors that were costing the Village money. These corrections have resulted in an estimated savings of \$2,094 per annum and retroactive savings of \$38 .