



12 South Center Street
Bensenville, IL 60106

Office: 630.350.3404
Fax: 630.350.3438
www.bensenville.il.us

VILLAGE BOARD

President
Frank DeSimone

Board of Trustees
Rosa Carmona
Ann Franz
Marie T. Frey
McLane Lomax
Nicholas Panicola Jr.
Armando Perez

Village Clerk
Nancy Quinn

Village Manager
Evan K. Summers

July 3, 2019

Via personal delivery
Mr. Paul De Michele
17W275 Rodeck Lane
Bensenville, Illinois 60106

Re: Freedom of Information Act request
Received June 19, 2019

Dear Mr. De Michele,

Thank you for writing to the Village of Bensenville ("Village") with your request for information pursuant to the Freedom of Information Act ("FOIA"), 5 ILCS 140/1 *et seq.* Your FOIA request seeks copies of the following:

1. A list of any elected officials covered under the IMRF resolution [on the Village's June 18, 2019, Committee of the Whole agenda];
2. A copy of the proposal for the sale of the surplus downtown Village property; and
3. A copy of any and all correspondence between the Village and Christopher Burke Engineering between January 1 and June 18, 2019.

Your FOIA request is hereby granted in part and denied in part as follows. The records responsive to your FOIA request have been provided to you in paper format, at your request, and you have been charged accordingly for copies. See 5 ILCS 140/6(a) and (b).

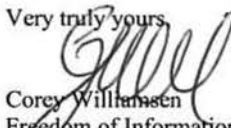
Water main technical drawings have been withheld as exempt from disclosure under section 7(1)(k) of FOIA, which exempts from inspection and copying architects' plans, engineers' technical submissions, and other construction-related technical documents for projects constructed or developed with public funds, but only to the extent that disclosure would compromise security. 5 ILCS 140/7(1)(k).

You have the right to have this matter reviewed by the Public Access Counselor (PAC) at the Office of the Illinois Attorney General. 5 ILCS 140/9.5(a). You may file your Request for Review with the PAC by writing to:

Ms. Sarah Pratt
Public Access Counselor
Office of the Attorney General
500 South 2nd Street
Springfield, Illinois 62706
Fax: 217-782-1396
E-mail: publicaccess@atg.state.il.us

You also have the right to seek judicial review of this matter by filing a lawsuit in the State circuit court. 5 ILCS 140/11.

Very truly yours,


Corey Williamson
Freedom of Information Officer
Village of Bensenville



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Bensenville, IL 60106

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Evan K. Summers

June 26, 2019

Mr. Paul De Michele
17W275 Rodeck Lane
Bensenville, Illinois 60106

Re: Freedom of Information Act Request
Dated June 19, 2019

Dear Mr. De Michele:

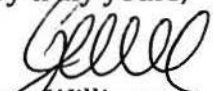
I am pleased to help you with your June 19, 2019 Freedom of Information Act ("FOIA"). Your request was received by the Village of Bensenville on June 19, 2019. You requested copies of the items indicated below:

- "1. A list of any elected official covered under the IRMF Resolution.*
- 2. A copy of the proposal for the sale of the surplus downtown Village property.*
- 3. A copy of any and all correspondence between the Village of Bensenville and Christopher Burke Engineering between Jan 1 and June 18, 2019."*

The Village needs to consult with the Village Attorney to determine whether any of the records you have requested are exempt from disclosure under Section 7 of the FOIA or should be revealed only with appropriate deletions. Therefore, pursuant to Section 3(e)(v) of FOIA, 5 ILCS 140/3(e)(v), the Village is extending the time it has to respond to your request by an additional five (5) business days. The Village will respond to your request on or before July 3, 2019.

Please let me know if you have any questions.

Very truly yours,


Corey Williamsen
Freedom of Information Officer
Village of Bensenville

TYPE:
Resolution

SUBMITTED BY:
M. Ribando

DEPARTMENT:
Village Manager's Office

DATE:
June 18, 2019

DESCRIPTION:

Consideration of a Resolution Approving Participation of Certain Elected Officials in the Illinois Municipal Retirement Fund

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

COMMITTEE ACTION:

Committee of the Whole

DATE:

June 18, 2019

BACKGROUND:

Since the new change in the law and policies set forth by IMRF, the Village needs to pass a Resolution in order for certain elected officials to participate in IMRF. Such an elected official must perform Village business for at least a 1,000 hours a year. As of today, the Village President is currently performing duties and spending time in excess of 1,000 hours a year on Village business. As of today, he is qualified to participate in the IMRF as allowed by the law. This is being represented to the Board tonight to recertify the IMRF eligibility as of May 17, 2019.

KEY ISSUES:

- a) An elected official can participate in IMRF if they perform Village business for 1,000 hours or more.
- b) Certain Village elected officials would be able to participate in IMRF subject to the approval of the attached Resolution.
- c) Currently, the Village President is performing his duties in excess of 1,000 hours a year.
- d) Recertifying the Village President eligibility date as of May 17, 2019 is required.

ALTERNATIVES:

Discretion of the Committee of the Whole.

RECOMMENDATION:

Staff recommends the approval of the Resolution Approving Participation of Certain Elected Officials in the Illinois Municipal Retirement Fund and recertifying the eligibility date of May 17, 2019 for the Village President position to participate.

BUDGET IMPACT:

As of today, only the Village President meets the standard. The total Village President remuneration is currently \$6,000. As a participant, IMRF members contribute 4.5% of their paycheck. The Village would pay approximately 9% as the IMRF contribution, which will cost Village around \$540 annually.

ACTION REQUIRED:

Approve the Resolution Approving Participation of Certain Elected Officials in the Illinois Municipal Retirement Fund and recertification of the eligibility date of May 17, 2019 for the Village President's participation.

ATTACHMENTS:**Description**

Resolution

Upload Date

6/13/2019

Type

Cover Memo

RESOLUTION NUMBER R-46-2019

**A RESOLUTION OF THE VILLAGE OF BENSENVILLE, DUPAGE AND COOK
COUNTIES, ILLINOIS APPROVING THE EXECUTION OF A LETTER OF INTENT
TO ALLOW A PERIOD OF SUFFICIENT TIME FOR THE CONTEMPLATION OF
THE SALE AND DEVELOPMENT OF 101 WEST MAIN STREET**

WHEREAS, the Village of Bensenville, DuPage and Cook Counties, Illinois (the "*Village*") is a duly organized and existing municipal corporation created under the provisions of the laws of the State of Illinois and under the provisions of the Illinois Municipal Code, as from time to time supplemented and amended; and

WHEREAS, the Village is the record-title owner of certain parcels of vacant property commonly known as 101 West Main Street, Bensenville, Illinois, as identified by permanent index numbers (PINs) 03-14-215-014, 03-14-215-015, 06-14-215-019 and 03-14-402-002, and legally described on Exhibit A (the "*Parcel*"), a copy of which is attached hereto and made a part hereof; and

WHEREAS, the Village has actively marketed the Parcel for sale and development; and

WHEREAS, Karis Capital, LLC in joint venture with ZenWealth Capital, LLC (the "*Developer*") has expressed an interest in developing the Parcel provided it is given a period of time to undertake an examination of the Parcel and submit conceptual renditions for the development of the Parcel to the Village, at its sole cost and expense, and without reimbursement from the Village, if either party determines not to proceed; and

WHEREAS, the Village President and Board of Trustees of the Village of Bensenville (the "*Corporate Authorities*") have determined it is in the best interests of the Village to approve a Letter of Intent to permit the Developer time to investigate the Parcel and prepare a proposal for review and discussion by the Village.

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois, as follows:

Section 1. That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2. The Letter of Intent for 101 West Main Street, Bensenville, Illinois by and between Karis Capital, LLC and ZenWealth Capital, LLC and the Village of Bensenville, Illinois (the "LOI"), a copy of which is attached hereto and made a part hereof as Exhibit A, is hereby authorized and approved.

Section 3. The Village Manager is hereby authorized and directed to execute and deliver the LOI and any and all other documents necessary to implement the provisions, terms and conditions thereof, as therein described.

Section 4. The officials, officers, employees and attorneys of the Village are hereby authorized and directed to take such further actions as are necessary to carry out the intent and purpose of this Resolution and the LOI.

Section 5. If any section, paragraph, clause or provision of this Resolution shall be held invalid, the invalidity thereof shall not affect any other provision of this Resolution.

Section 6. All ordinances, resolutions, motions or orders in conflict with this Resolution are hereby repealed to the extent of such conflict.

Section 7. This Resolution shall be in full force and effect upon its passage, approval and publication as provided by law.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois, this 16th day of April 2019.

APPROVED:



Frank DeSimone, Village President

ATTEST:



Nancy Quinn, Village Clerk

AYES: Carmona, Franz, Lomax, Panicola

NAYS: None

ABSENT: Jaworska, Perez

Exhibit A

LOI

April 2, 2019

Mr. Evan Summers
Village Manager
Village of Bensenville
12 South Center Street
Bensenville, Illinois 60106

Re: Letter of Intent for 101 West Main Street, Bensenville, Illinois

Dear Manager Summers:

This Letter of Intent (the "LOI") sets out the key terms upon which Karis Capital, LLC and ZenWealth Capital, LLC (collectively the "Developer") will purchase and develop the Parcel from the Village of Bensenville, Illinois (the "Village"). The Developer and Village shall also be referred to as the "Parties". The terms herein are not comprehensive and additional terms will be incorporated into a development agreement to be negotiated between the Parties, and in accordance with the Tax Increment Allocation Redevelopment Act and other applicable requirements and procedures (the "Agreement"). The key terms are as follows:

Purchaser:	Karis Capital, LLC in joint venture with ZenWealth Capital, LLC
Seller:	Village of Bensenville, Illinois
Parcel of Property:	101 West Main Street, Bensenville, Illinois, identified by permanent index numbers (PINs) 03-14-215-014, 03-14-215-015, 06-14-215-019 and 03-14-402-002, and as legally described on <u>Exhibit A</u> (the "Parcel").
Purpose:	To provide Developer with a sufficient period of time to perform due diligence, actively work toward site plan renderings and draft building details for a multiple family residential and commercial mixed-use structure on the Parcel during the Term of this LOI. To prohibit Village from actively marketing or seek proposals from third parties for the Parcel during the Term of this LOI. To provide Village with opportunity to review Developer's proposal for the Parcel. To allow Parties to undertake good faith efforts to negotiate an Agreement before the expiration of the Term of this LOI.
Purchase Price:	\$10,0000.00 cash at closing and in accordance with Agreement.
Expenses:	Developer shall be responsible for any and all of its fees, costs or expenses that are directly or indirectly related to this LOI or the Agreement, without reimbursement from Village, if Parties fail to proceed under this LOI or execute an Agreement.

- Document Access:** Immediately after the Effective Date, the Developer and its advisors and consultants will have access during normal business hours to all documents pertaining to the Parcel and within the Village's control. However, Village shall not guarantee accuracy or completeness of any such document provided to the Developer.
- Assignment:** Developer shall not assign or otherwise transfer all or any part of this LOI.
- Agreement:** The Parties shall use reasonably good faith efforts to enter into a written agreement containing terms and conditions acceptable to both Parties. Any agreement shall be subject to approval by the Corporate Authorities of the Village. With the exception of the purchase price, Developer shall not seek any financial assistance or incentive from the Village.
- Confidentiality:** Developer shall keep all negotiations as well as any documents pertaining to the Parcel confidential and agrees to not disclose to anyone other than respective advisors, internal staff and necessary third parties, such as engineers or architects. No press or other publicity release or statement will be issued by the Developer concerning this LOI or any proposed transaction without the written consent of the Village.
- Developer's Documents:** Developer agrees to provide the Village a copy of all of its documents acquired or prepared by the Developer pertaining to the Property at the termination date of this LOI or ten (10) days prior to the execution of the Agreement.
- Governing Law:** This LOI shall be governed by and construed in accordance with the laws of the State of Illinois. If there is a lawsuit or action under this LOI, the Parties agree to submit to the jurisdiction of the County of DuPage, the State of Illinois or the United States District Court for the Northern District of Illinois.
- Commission:** The Parties agree and acknowledge that no broker or agent is involved in this transaction.
- Effective Date:** The date of execution by the Village shall be deemed the effective date of this LOI.
- Term:** This LOI shall terminate 60 days after the Effective Date, unless the Parties agree in writing and in their sole discretion to an additional thirty (30) day extension.

It is the intent of the Parties that the terms of this LOI shall be incorporated into the Agreement. All other terms and conditions of the Agreement will be customary for this type of transaction and mutually acceptable to the Parties. In the event of any discrepancies between this LOI and the Agreement, the terms and conditions of the Agreement will control.

This LOI is solely intended as a proposal of the basic understanding for the development and conveyance of the Parcel, and it is understood and agreed that the Parties are under no binding obligation until an Agreement is executed. The Parties shall have the unilateral right to terminate negotiations at any time.

(Intentionally Left Blank)

Agreed to,

DEVELOPER

By:  Michael Kehoe


Its: Managing Partner

Date: 4/2/19

Agreed to,

VILLAGE, 

By: 


Village President
Its: _____

Date: April 16, 2019

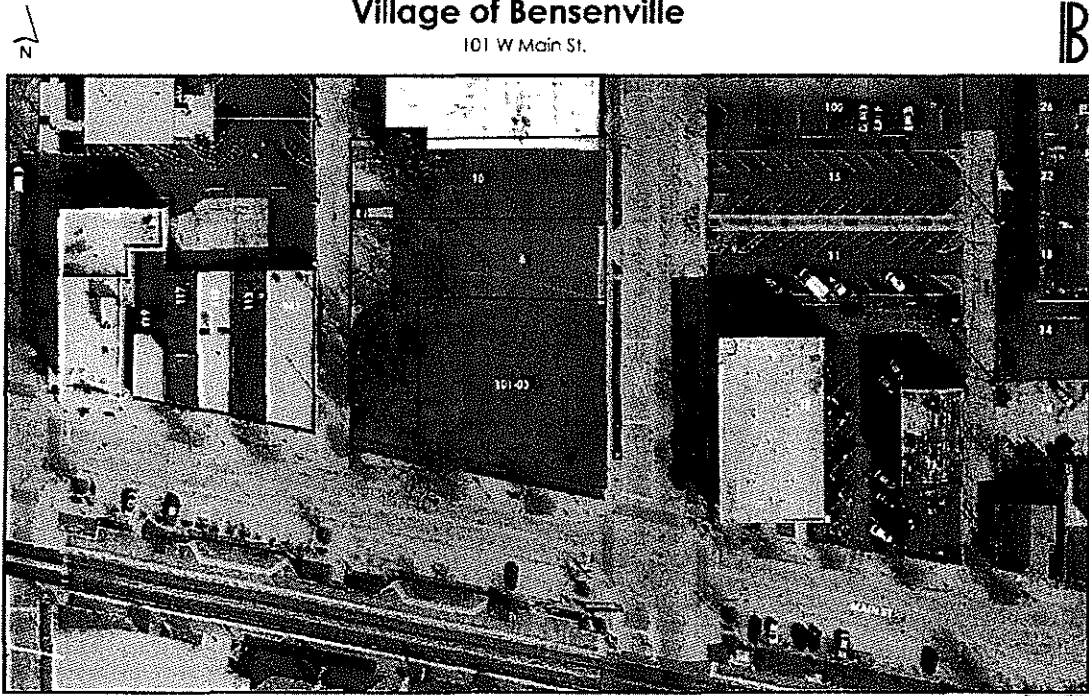
Exhibit A

Legal Description

101 West Main Street

Village of Bensenville

101 W Main St.



From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, January 2, 2019 11:19 AM
To: Mehul Patel; Joseph Caracci
Cc: Alex Schaefer; Max Geib
Subject: RE: Preliminary Plans and Estimate - White Pines

Hi Mehul,

How about 1pm on Tuesday?

Bryan Welch, PE

Assistant Department Head, Civil Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Wednesday, January 02, 2019 11:14 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>; Max Geib <MGeib@bensenville.il.us>
Subject: RE: Preliminary Plans and Estimate - White Pines

Bryan/Alex,

We have reviewed the pre-final plans and have comments to offer. The comments are made on a full size plan set and may not portray as intended if transferred to the half size set. It would be best to setup a meeting to go over the comments. I've availability tomorrow and Friday afternoon between 1-3 pm or we can meet early next week Monday or Tuesday afternoon. Let me know what works best for you and your team. Thanks.

Mehul T. Patel, P.E., CFM

Assistant Director of Public Works

Village of Bensenville

630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, December 12, 2018 1:54 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: Preliminary Plans and Estimate - White Pines

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The plans were updated per our meeting discussions, including showing a new 8" main directionally bored between Woodland and Briar. Although it's not called out on the plans yet, we anticipate needing to show CIPP lining of the existing sanitary sewer adjacent to the new water main in order to meet IEPA separation requirements.

Please let us know if you have any comments on the alignments, valving, fire hydrant locations, etc.

Bryan Welch, PE

Assistant Department Head, Civil Design

Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600

Rosemont, Illinois 60018

Phone: (847) 823-0500

Fax: (847) 823-0520

1938 E. Lincoln Highway, Suite 212

New Lenox, Illinois 60451

E-Mail: bwelch@cbbel.com

www.cbbel.com

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Assistant Department Head, Civil Design
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Rosemont, Illinois 60018 New Lenox, Illinois 60451
Phone: (847) 823-0500
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From: Mehul Patel
Sent: Wednesday, January 2, 2019 11:36 AM
To: Bryan Welch; Joseph Caracci
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Subject: RE: Preliminary Plans and Estimate - White Pines

1 pm on January 8 works.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

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Assistant Department Head, Civil Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 | Fax: (815) 770-2855
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Bryan Welch, PE

Assistant Department Head, Civil Design

Christopher B. Burke Engineering, Ltd.

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, January 3, 2019 11:13 AM
To: Joseph Caracci; Mehul Patel
Cc: Alex Schaefer
Subject: IEPA Funding Nomination Form - White Pines
Attachments: pws-preapplication_2019_0103.pdf

Hi Joe/Mehul,

Just a reminder that a Funding Nomination Form for White Pines needs to be submitted to IEPA in order to maintain loan eligibility. None of the dates/costs are binding, they're just used as a guide for IEPA.

Attached is a draft version of the letter. Can you please fill in #9 and #10, sign and send back to me? Just want to make sure this doesn't fall through the cracks. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 | Fax: (815) 770-2855

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, January 8, 2019 12:00 PM
To: Nifong, Chris
Cc: Joseph Caracci; Mehul Patel; Alex Schaefer
Subject: Funding Nomination Form - L174402 - White Pines Water Main (Bensenville)
Attachments: Funding Nomination Form - White Pines Watermain Project - January 2019
_SIGNED.PDF

Hi Chris,

Attached for your use is the Funding Nomination Form for the White Pines Water Main project in Bensenville (L174402). Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 | Fax: (815) 770-2855

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Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Instructions for Funding Nominations for Loan Assistance for Drinking Water Loan Projects

Funding Nominations must be received by the Agency on or before January 31 preceding the fiscal year for which assistance is requested in order to be included on the Agency's printed priority list or Intended Use Plan. Funding Nominations should be sent to the Agency at Post Office Box 19276, Springfield, IL 62794-9276. The following provides further explanation of the funding nomination and the priority scoring process:

1. Legal name of the loan applicant that will own the facilities to be constructed.
2. Address of loan applicant.
3. Check the box that best describes your organizational status from the following choices:
 - Local Units of Government. (Including cities, villages, townships, counties, and special service areas)
 - Investor Owned Water Utility if under Illinois Commerce Commission regulation and operating as a separate and distinct water utility.
 - Not for Profit Water Corporation if operating as a separate and distinct water utility.
 - Mutually-owned or Cooperatively-owned Water System if operating as a separate and distinct water utility.
4. The county and districts should be consistent with the mailing address.
5. The authorized representative must be the person or officer with the loan applicant that will be responsible to execute loan documents.
6. The name of the Architectural/Engineering consultants or loan applicant's Engineer that will be responsible for the project planning, design and construction of the loan project.
7. Public Water Supply Facility Number.
8. A separate funding nomination should be submitted for each type of project and for each project of the same type that will not be constructed concurrently.

Note: Not all of the information used to determine the priority of projects comes from information submitted on the funding nomination. Some of the information used to complete the scoring process will be provided by the Agency from its records or produced during the project planning approval process. Population figures for projects that serve less than the applicant's entire service area will be taken from the Agency approved project planning report. The Agency will also provide the economic data and source water protection data that is used in the priority scoring process. Additional information that will be provided by the Agency from its records or produced during the project planning approval process is italicized below with the affected project type. In the absence of this information at the time of priority scoring, a default value of one will be used in the priority scoring calculation until the appropriate value has been determined.
9. Provide the number of water customers that are billed for water service.
10. Provide the current population to be served by the project.
11. Provide a description of the proposed drinking water construction project.
12. Provide an estimate of the cost for the proposed project and the proposed loan amount.
13. Provide an estimated schedule for:
 - The submission of the project planning to the Agency.
 - The submission of engineering plans and specifications to the Agency.
 - The award of the construction contract.
 - The completion of construction.



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Funding Nomination for Loan Assistance for Drinking Water Facilities Annual Filing Deadline: January 31

Agency Use Only:	Date Received: _____	Project Number: _____
	New App. _____	Renewal App. _____

1. Legal Name of Applicant: Village of Bensenville
2. Address:

717 E. Jefferson Street
Bensenville, IL 60106
3. Organizational Type:
☒ Unit of Local Government ☐ Not-for Profit Water Corporation
☐ Investor Owned Water Utility ☐ Mutually or Cooperatively Owned Water System
4. Location Information:
a) County DuPage c) Illinois House District # 77
b) U.S. Congressional District # IL-5 d) Illinois Senate District # 39
5. Authorized Representative:
Name: Joseph Caracci, PE Title: Director of Public Works
Phone: 630-350-3435
6. Engineer:
Name: Bryan Welch, PE Firm: Christopher Burke Engineering
Address:

9575 W. Higgins Road
Suite 600
Rosemont, IL 60018

Phone: 847-823-0500
7. Facility Number 0434140
8. Reason for Project:
☐ A) Compliance Project
 ☐ 1) MCL Violation Parameter _____
 ☐ 2) Treatment Technique Parameter _____
 ☐ 3) Technical Policy Violation
☐ B) New Service Project
☒ C) Service Continuation Project

9. Number of Billed Customers 267

10. Population Served by Proposed Project 747

11. Project Description:

Project includes engineering and construction of the retirement of approximately 75-year-old 6" diameter mains located in rear yard easements and construction of new 8"-diameter ductile iron water main within existing street rights-of-way. Project shall also include construction of new water services from existing houses to the new mains and removal of all lead water services to the house, as well as new valves, fire hydrants and service boxes.

12. Cost Estimate \$7,000,000.00

13. Project Schedule:

Project Planning Submission Date Mar 1, 2019

Plan and Specification Submission Date May 31, 2019

Contract Award Date Feb 28, 2020

Completion of Construction Date Nov 30, 2021

Authorized Representative

Joseph M. Caracci

Date

1-8-19

From: Evan Summers
Sent: Tuesday, January 8, 2019 6:21 PM
To: Bryan Welch; Joseph Caracci
Cc: Mehul Patel
Subject: RE: White Pines - Drone Survey

Bryan,

Just trying to look at this from all angles:

- I assume that CBBEL holds a commercial operator's license, correct?
- Conflicts with O'Hare will have been resolved?
- Are there typically any notices that will be given to residents?
- How long is the drone going to be airborne per day?

Evan K. Summers

Village Manager



12 South Center Street, Bensenville, IL 60106
P: 630.350.3420 F: 630.350.1105

From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, January 8, 2019 5:31 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>
Cc: Mehul Patel <MPatel@bensenville.il.us>; Evan Summers <ESummers@bensenville.il.us>
Subject: RE: White Pines - Drone Survey

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Drone modeling consists of 5 flight passes, 4 obliques (35°- 45° in each direction) and one nadir (90° straight up and down). No video is taken for modeling, only georeferenced photographs. Flights are typically flown at a min. of 100' to 150' relative elevation from ground. Due to the software processing and flight heights, unless a person is standing still for the entire flight they are automatically eliminated from the model, the same with moving cars. Stationary cars could potentially be in the model depending on how long they are stationary, plate numbers are virtually unreadable. Software does not work well with reflective objects so it cannot see thru windows and are opaque in the model. Below are some examples of the end product as it is used and viewed.

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Let me know if you have any additional questions.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

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From: Joseph Caracci <JCaracci@bensenville.il.us>

Sent: Tuesday, January 08, 2019 3:56 PM

To: Bryan Welch <bwelch@cbbel.com>

Cc: Mehul Patel <MPatel@bensenville.il.us>; Evan Summers <ESummers@bensenville.il.us>

Subject: FW: White Pines - Drone Survey

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Evan K. Summers

Village Manager



12 South Center Street, Bensenville, IL 60106

P: 630 350 3420 F: 630 350 1105

From: Joseph Caracci <JCaracci@bensenville.il.us>
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Subject: White Pines - Drone Survey

Evan,

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Joe

Joseph M. Caracci, P.E.
Director of Public Works



717 E. Jefferson Street Bensenville, IL 60106
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Subject: White Pines - Drone Survey

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, January 9, 2019 7:00 AM
To: Evan Summers; Joseph Caracci
Cc: Mehul Patel
Subject: RE: White Pines - Drone Survey

Hi Evan,

Please see my responses below.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 | Fax: (815) 770-2855
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Cc: Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: White Pines - Drone Survey

Bryan,

Just trying to look at this from all angles:

- I assume that CBBEL holds a commercial operator's license, correct? CBBEL does not have a commercial license to fly drones, we subcontract to www.droneascent.com for services.
- Conflicts with O'Hare will have been resolved? Drones will not take off in restricted flights areas without approval from the FAA, by software design. A waiver has already been obtained by Drone Ascent for this project.
- Are there typically any notices that will be given to residents? This something that the individual municipality typically decides on and prepares, based on their respective needs, requirements, concerns, etc. Notifications to residents are not required to do the drone work. Drone Ascent does notify local authorities of its planned activities.
- How long is the drone going to be airborne per day? Flight time will vary based on site/flight conditions, but on average 5 hours daily.

Evan K. Summers

Village Manager



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From: Mehul Patel
Sent: Monday, January 14, 2019 10:39 AM
To: Bryan M Welch (bwelch@cbbel.com); Alex Schaefer
Cc: Joseph Caracci; Max Geib
Subject: WPs Watermain - Additional pre-final comments

Bryan/Alex,

Following our pre-final comments meeting, Village's utility division did some further field investigation on some of the items we discussed in the meeting. Below is the summary.

- 1) The existing 6-in watermain that runs from Third Ave to Red oak Ave through the backyards and the existing park has 3 services coming off of it between Third Ave and Crest Ave. the services are for 4N512, 4N524 and 4N542 Church Rd. The segment between Red Oak and Crest doesn't have any services coming off of it. This segment can be abandoned as part of the project.
- 2) UPP-14: there is a 6-inch valve in a box at approximate STA 404+40 (on the east-west 6-in watermain) just west of the existing sanitary sewer. This 6-inch can be abandoned as part of the project as well.
- 3) All existing valve vaults at the intersections of White Pines Rd and Hawthorne/Pine Grove/Ridgewood/Briar are 48-in diameter. As discussed, those should be upgraded to 60-inch valve vaults with new 8-inch valves.
- 4) UPP-28: there is an existing 12-in Valve inside 60-inch vault at approximately STA 300+50 on White Pine Rd. The proposed watermain can be connected at this location with a new 12-inch valve inside the existing vault.

Please let me know if there are any questions or any other information that we still need to verify in the field.
Thanks.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works



717 E Jefferson Street, Bensenville, Illinois 60106
Phone: [630-594-1196](tel:630-594-1196) Fax: [630-594-1148](tel:630-594-1148)
Email: mpatel@bensenville.il.us

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, January 14, 2019 3:30 PM
To: Joseph Caracci
Cc: Mehul Patel
Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

Hi Joe,

Thanks for the info. Please see my attached draft response to IEPA below. My thought is that we get confirmation of their acceptance of our answers and then we can revise the Planning Report accordingly and get it submitted to IEPA for review.

Also, in the responses that you sent me, there are attachments referenced (highlighted in yellow below). Can you please email those to me so I can include them in my response to IEPA?

Finally, regarding the table in #8, I think it should be revised to reflect a 4000 gallon/mo use, as stated in Item #7.

Please review and let me know what you think.

Hi Chris,

Please see the Village/CBBEL responses to your 11/20/18 email below and let me know if you have any questions or need any additional info. Once we confirm the below responses are satisfactory, we will finalize the revised Planning Report and get it submitted to IEPA for review. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Tuesday, November 20, 2018 10:47 AM
To: Bryan Welch <bwelch@cbbel.com>; Bingenheimer, Gary <Gary.Bingenheimer@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Allen, Heidi <Heidi.Allen@Illinois.gov>
Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

Bryan,

I have reviewed your draft planning review response and have a few comments listed below.

1. In the updated project costs, please revise the contingency to be 10% of the construction costs (response to item 3) and revise the other total costs. We use 10% during planning and reduce it to 3% in the loan agreement after the actual bid costs are known.

The revised cost estimate will be included with the revised Planning Report to be submitted under separate cover.

2. Provide a detailed cost breakdown of the estimated construction costs that includes: length and sizes of mains, water services, valves, hydrants, meters, construction area restoration, backfill, unit prices, etc. A detailed unit price cost estimate will be included with the revised Planning Report to be submitted under separate cover.
3. Is the construction site map (Exh.5 of the original planning) still correct? If any changes, provide a new map. The overall scope of the project is generally the same, but some adjustments have been made since 2015. A new map will be included with the revised Planning Report to be submitted under separate cover.
4. What are total gallons of water used by the White Pines area customers per year based on billing records. See below

Row Labels	2017 Annual	
	Billed Usage	Count of Accounts
Other	2,615,245.00	55
White Pines	12,745,838.00	267
Grand Total	15,361,083.00	322

5. Are there 280 billed customers in the White Pines area?
267 customers have water service in White Pines. Thirteen (13) parcels do not have a record of water services from the main - these services are assumed to still be on wells.
6. Are there any other customers who will pay the proposed unincorporated water rates?
No. The Village plans to develop and consider an Ordinance that will create a special billing rate only for those unincorporated residents that live within the White Pines subdivision. The new rate will be based on the fact that infrastructure improvements are necessary only within the defined area.
7. What is the amount of water, in gallons or billing units, used each month by the average residential user in the White Pines area, based on actual billing records.
4,000 gallons

Average of Billed Usage Column Labels												
Row Labels	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Grand Total	4,237.51	5,953.07	3,431.85	3,730.23	5,099.65	5,798.09	4,512.74	4,565.90	4,236.49	4,130.01	3,746.14	3,563.30

8. Provide an explanation and examples of how the existing and proposed water service bill for an average residential customer is calculated, based on the average gallons used in the White Pines area.
Currently the unincorporated area customer rate is 50% higher than the incorporated customer rate. A more detailed comparison of rates/bills specific to White Pines residents is shown below. The per 1000 gallon rate of \$15 is 50% higher than the incorporated rate of \$10.

	Per 1000 Gallons	2018 Gallons	
		Current	With Association
			75%
			100%
Water	15.00	75.00	137.50
Sewer	12.74	63.68	116.74
5 Year fee			50.00
Hard Fee	15.00	15.00	27.50
		153.68	261.74
			157.45

9. Response number three states that a new existing rate structure is in place. Provide a copy of the existing rate ordinance. When did it become effective?
The current rate structure/ordinance is attached herewith. It is effective 01/01/2018.

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16221 W. 159th Street, Suite 201 | Lockport, IL 60441

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Sent: Monday, January 14, 2019 2:54 PM

To: Bryan Welch <bwelch@cbbel.com>

Cc: Mehul Patel <MPatel@bensenville.il.us>

Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

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Sent: Monday, January 14, 2019 4:52 PM
To: Joseph Caracci
Cc: Mehul Patel
Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

OK, will do. I'll update my email to ask if they want us to revise/resubmit our draft response to the June 2015 comments, or if simply submitting a revised Planning Report that addresses all correspondence we've had with them since their review is acceptable.

Once I get the necessary attachments and an OK from you to send to Chris, I'll do so. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
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Please review and let me know what you think.

Hi Chris,

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Sent: Tuesday, November 20, 2018 10:47 AM

To: Bryan Welch <bwelch@cbbel.com>; Bingenheimer, Gary <Gary.Bingenheimer@Illinois.gov>

Cc: Joe Caracci <JCaracci@bensenville.il.us> <JCaracci@bensenville.il.us>; Allen, Heidi <Heidi.Allen@Illinois.gov>

Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

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1. In the updated project costs, please revise the contingency to be 10% of the construction costs (response to item 3) and revise the other total costs. We use 10% during planning and reduce it to 3% in the loan agreement after the actual bid costs are known.

The revised cost estimate will be included with the revised Planning Report to be submitted under separate cover.

2. Provide a detailed cost breakdown of the estimated construction costs that includes: length and sizes of mains, water services, valves, hydrants, meters, construction area restoration, backfill, unit prices, etc. A detailed unit price cost estimate will be included with the revised Planning Report to be submitted under separate cover.

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4. What are total gallons of water used by the White Pines area customers per year based on billing records. See below

2017 Annual		
Row Labels	Billed Usage	Count of Accounts
Other	2,615,245.00	55
White Pines	12,745,836.00	267
Grand Total	15,361,083.00	322

5. Are there 280 billed customers in the White Pines area?

267 customers have water service in White Pines. Thirteen (13) parcels do not have a record of water services from the main - these services are assumed to still be on wells.

6. Are there any other customers who will pay the proposed unincorporated water rates?

No. The Village plans to develop and consider an Ordinance that will create a special billing rate only for those unincorporated residents that live within the White Pines subdivision. The new rate will be based on the fact that infrastructure improvements are necessary only within the defined area.

7. What is the amount of water, in gallons or billing units, used each month by the average residential user in the White Pines area, based on actual billing records.

4,000 gallons

Average of Billed Usage Column Labels														
Row Labels	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total	
Water	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	48,000.00	48,000.00
Sewer	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00	48,000.00	48,000.00
Grand Total	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	8,000.00	96,000.00	96,000.00

8. Provide an explanation and examples of how the existing and proposed water service bill for an average residential customer is calculated, based on the average gallons used in the White Pines area.

Currently the unincorporated area customer rate is 50% higher than the incorporated customer rate. A more detailed comparison of rates/bills specific to White Pines residents is shown below. The per 1000 gallon rate of \$15 is 50% higher than the incorporated rate of \$10.

		1000 Gallons		
		Current	Without Annexation	With Annexation
	Per 1000 Gallons		775%	100%
Water	15.00	75.00	137.50	50.00
Sewer	12.74	63.68	116.74	42.45
5 Year Fee				50.00
Fixed Fee	15.00	15.00	77.50	10.00
		151.68	281.74	152.45

9. Response number three states that a new existing rate structure is in place. Provide a copy of the existing rate ordinance. When did it become effective?

The current rate structure/ordinance is attached herewith. It is effective 01/01/2018.

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Sent: Tuesday, January 15, 2019 1:38 PM
To: Joseph Caracci
Cc: Mehul Patel
Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

Hi Joe,

While you're working on the updates and attachments, I started revising the Planning Report that was originally submitted in 2015. Below are a few questions I'd like to get Village input on in order to update applicable portions of the Planning Report...some will probably come from you and others from Finance.

- The Village stopped collecting the surcharge for the unincorporated water users fund in 2015, correct?
- What interest rate for the IEPA loan did the Village assume in their debt service calcs (current rate is 1.84%)
- What approximate interest rate does the Village estimate they would pay if this project were to be paid for with a general obligation bond?
- Does the Village desire to include any costs related to easement administration in the loan (i.e. title report, plats & legals, appraisals, negotiations, etc), or will those be paid for by the Village outside of the loan? Costs relates to the actual easement purchase/compensation are not loan eligible.
- Just so I have the current versions, can you send me both the current Village water and sewer rate structures (for both incorporated and unincorporated users), as well as the rate structure that would be put into effect for White Pines only to help pay off the loan?

Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

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5. Are there 280 billed customers in the White Pines area?
267 customers have water service in White Pines. Thirteen (13) parcels do not have a record of water services from the main - these services are assumed to still be on wells.
6. Are there any other customers who will pay the proposed unincorporated water rates?
No. The Village plans to develop and consider an Ordinance that will create a special billing rate only for those unincorporated residents that live within the White Pines subdivision. The new rate will be based on the fact that infrastructure improvements are necessary only within the defined area.
7. What is the amount of water, in gallons or billing units, used each month by the average residential user in the White Pines area, based on actual billing records.
4,000 gallons

Average of Billed Usage - Column Labels													
Row Labels	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
Other	4,237.51	3,953.07	3,431.65	5,750.25	3,899.65	3,968.04	4,512.74	4,365.90	4,236.29	4,150.01	3,746.14	3,563.50	3,968.25
White Pines	4,237.51	3,953.07	3,431.65	5,750.25	3,899.65	3,968.04	4,512.74	4,365.90	4,236.29	4,150.01	3,746.14	3,563.50	3,968.25
Grand Total	4,237.51	3,953.07	3,431.65	5,750.25	3,899.65	3,968.04	4,512.74	4,365.90	4,236.29	4,150.01	3,746.14	3,563.50	3,968.25

8. Provide an explanation and examples of how the existing and proposed water service bill for an average residential customer is calculated, based on the average gallons used in the White Pines area.
Currently the unincorporated area customer rate is 50% higher than the incorporated customer rate. A more detailed comparison of rates/bills specific to White Pines residents is shown below. The per 1000 gallon rate of \$15 is 50% higher than the incorporated rate of \$10.

		5000 Gallons		
	Per 1000 Gallons	Current	Without Anticipation	With Anticipation
			75%	100%
Water	15.00	75.00	117.50	50.00
Sewer	12.74	63.68	116.74	42.65
5 Year fee				50.00
Fixed Fee	15.00	15.00	27.50	10.00
		153.68	261.74	152.65

9. Response number three states that a new existing rate structure is in place. Provide a copy of the existing rate ordinance. When did it become effective?
The current rate structure/ordinance is attached herewith. It is effective 01/01/2018.
10. A basic demonstration must be made that shows sewer system revenue and any proposed rate increase will be adequate to cover water system operation, maintenance and replacement costs and that the annual loan repayment has been included in the budget. This should include a summary that compares the existing and anticipated annual sewer system expenses to the annual revenue generated by the current and/or projected water user charges and explains any other revenue used to operate the system. For planning purposes, this can be a basic budget summary. After planning is approved, a detailed demonstration for loan repayment is required as part of the financial checklist submittal/loan application form, which is reviewed by the IEPA loan program Attorney and Financial Manager.

The current rate structure provides the capital improvement worth \$900k through current revenues. The 175% surcharge and the additional property tax revenue from the annexation will be used to pay for the IEPA loan.

11. A response has not been provided to the third paragraph in item three of the June 3, 2015 IEPA planning review letter. Has the Village conducted any outreach or perhaps conducted a survey of the White Pines area customers to see how many are in favor of the proposed project? Do you have any survey results, positive comments or any type of documentation that shows the affected property residents are willing to support the project and the new proposed loan repayment charges? The project file includes a letter from the White Pines Civic Association with several negative comments regarding the proposed project. As you know, the planning approval process will include a public hearing that will solicit public comments. The Village will have to address all public comments. I think the public hearing will be more effective if the Village can show support for the project with previously obtained written documentation, instead of forcing supporters to explain their opinion in front of outspoken dissenters. There might be people that support the project, but don't want to go to a public hearing.

The Village has actively been reaching out to the residents of the White Pines Subdivision. Below is a list of events / meetings / correspondences that have been extended to the group.

- The Village President, Village Manager, and Village Finance Director held a White Pines Neighborhood Meeting on July 24, 2018 to present the latest plan to the residents. A video of this Meeting can be found at <http://www.bensenville.il.us/980/WPWMR-Neighborhood-Meeting-Video>. Representatives from 92 of the households within White Pines attended the Meeting. A list of those in attendance is included in your packet. Each household in attendance was given a packet that included the details of their property and the effects of the proposed plan on their finances.
- The Village President, Village Manager, and Village Staff have conducted individual visits to each home within the White Pines subdivision to present, discuss, and educate the residents of the proposed plan. The team handed out the packets of information to the residents if they had not already received the packet at the Public Meeting.
- In the interest of full disclosure and transparency, the Village continues to host a public website portal specifically for the White Pines projects so that all important documents can be shared. This site includes presentation materials, FAQ's, interactive maps, Village Board Meeting minutes and links to important documents and agreements. <http://www.bensenville.il.us/973/White-Pines-Water-Main-Replacement-Portal>
- The Village Manager also offered an invitation for one on one meetings with staff to individually review their packets. These meetings could take place after hours as well in order to accommodate as many residents as possible. To date, 35 residents have met with the Village Manager to discuss their packets.
- Every resident was given an individualized packet of information describing the proposed plan and their options. The packets were specific to the residents past tax bills and past water usage.
- The Village has received support from the community through another ad hoc resident group called the "White Pines Community Alliance." This group of individuals was formed by some residents who object to the views of the "White Pines Civic Association." I would also like to note, that neither Association nor Alliance is a recognized corporate group, homeowners Association, or legally recognized group. A few of the letters/emails are included in your packet for your review.
- The Daily Herald published an article after the Public Meeting was held. This article is included in your packet.
- To date, 28 residents have already signed annexation agreements (seven of which are currently contiguous to the Village) and are waiting formal Village Board approval.

We agree that the more information that can be disseminated to the residents the better. We also know that we are not going to be able to make every resident within the subdivision happy. We do feel that the historical

push back from the residents was coming from a vocal minority of the residents in the subdivision. During the individual meetings with resident, a common theme was they have heard so many different versions of the plan from neighbors, that they never really understood the full plan. Although we did not take a formal survey, we do feel that a majority of residents agree that improvements are necessary, now understand the options, and are supportive in the proposed plan. Residents like the fact that they have an option to annex or not and understand the financing behind the plan.

The Village understands that all comments will need to be addressed that present themselves at the Public Meeting. We also agree that there will likely be more opposed than for the project in attendance at the Public Meeting. This is not uncommon for a project of this magnitude. We will seek additional support letters from those that we know are supportive to include in the Public Comment response.

The Village is committed to the health and safety of our water customers as well as the reliability of our water system. We are committed to replacing all lead within the White Pines area as part of this project (even those service lines not planned for replacement).

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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From: Joseph Caracci <JCaracci@bensenville.il.us>

Sent: Monday, January 14, 2019 2:54 PM

To: Bryan Welch <bwelch@cbbel.com>

Cc: Mehul Patel <MPatel@bensenville.il.us>

Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

Bryan,

It's taken a while, but here are some responses to Chris' email from 11/20. Let me know what you think and if there is additional information needed. During the search for these answers, it looks like the average usage for WP residents is approximately 4,000 gallons per month. I am having Amit go through a few additional scenarios that will include running the numbers with 4000, 4500, and 5000 gallons of usage. We are also going to bring an Ordinance to the VB that will establish a separate unincorporated billing unit for WP based on the infrastructure needs. I will have Amit run the analysis for both all unincorporated as well as only WP. Bensenville is committed to keeping the maximum water rate at 275%, so any additional revenue needed will need to come out of our Water/Sewer Fund reserve.

I am going to reach out to the County Health Department this week to discuss our implementation plan and gauge their concurrence and support. I will let you know how that goes.

Also, I will generate an information letter for the drone survey this week.

Joe

Joseph M. Caracci, P.E.

Director of Public Works



BENSENVILLE

DEPARTMENT OF PUBLIC WORKS

717 E. Jefferson Street, Bensenville, IL 60106

P: 630.350.3431 F: 630-594-1148 E: jcaracci@bensenville.il.us



Go Green ! Read it from the Screen. Print emails only when necessary.

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, January 21, 2019 4:19 PM
To: Joseph Caracci
Subject: RE: White Pines

Hey, following up on the voicemail I left you earlier, the Planning Report submitted in 2015 assuming an IEPA loan rate of 2.21%. I'm not sure how we arrived at that but it seems to be pretty reasonable and much more likely than 1.8%. Curious what you think about using that for our analysis rather than 1.8%. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
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From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Monday, January 21, 2019 3:19 PM
To: Bryan Welch <bwelch@cbbel.com>
Subject: FW: White Pines

From: Amit Thakkar <AThakkar@bensenville.il.us>
Sent: Monday, January 21, 2019 9:38 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Evan Summers <ESummers@bensenville.il.us>
Subject: White Pines

4000 Gallons

4

	Current	Current Avg. Bill	Without Annexation	With Annexation
	Per 1000 Gallons	4000 Gallons	275%	100%
Water	15.00	60.00	110.00	40.00
Sewer	12.74	50.96	91.43	33.97
5 Year Fee	-	-	-	50.00
Fixed Fee	15.00	15.00	27.50	10.00
Total		125.96	230.93	133.97

5000 Gallons

5

	Current	Current Avg. Bill	Without Annexation	With Annexation
	Per 1000 Gallons	4000 Gallons	775%	100%
Water	15.00	75.00	137.50	50.00
Sewer	12.74	63.70	116.78	42.47
5 Year Fee	-	-	-	50.00
Fixed Fee	15.00	15.00	27.50	10.00
Total		153.70	281.78	152.47

2017 – Unincorporated area income analysis

	Parcels	Account	Consumption	Amount
Project Area	290.00	267.00	2,615,245.00	376,050.72
Outside the Project Area	-	55.00	12,745,838.00	111,611.28
		322.00	15,361,083.00	487,662.00

(Scenario with no annexation)

Loan	6,100,000.00
Rate	1.80%
Term (Years)	20.00
Annual Debt Service	365,894.64
Current Charges	376,050.72
Base Charge	250,700.48
50% Surcharge	125,350.24
Base Charge	250,700.48
Current Surcharge	125,350.24
125% additional charge for debt service	313,375.60
125% additional charges collected for the debt service	313,375.60
Village's resources	52,519.04
Total debt service to IEPA	365,894.64

In the annexation scenario, the \$50 fee + additional revenue + village's resources will be added to meet the debt service obligation.

Thanks,

Amit Thakkar,
Director of Finance



12 S Center Street
Bensenville, IL 60106
Ph: 630-350-3497
Email: athakkar@bensenville.il.us

From: Mehul Patel
Sent: Tuesday, January 22, 2019 11:10 AM
To: Ramos, Carmen E
Cc: jsouden@cbbel.com; Riddle, Charles F; Joseph Caracci
Subject: Re: Bensenville, 18-00098-00-RS, 61F38, item 121, January 18, 2019 letting

Carmen,

The Village concurs the award of the project to K-Five. Thank you.

Mehul

On Jan 22, 2019, at 8:55 AM, Ramos, Carmen E <Carmen.E.Ramos@illinois.gov> wrote:

Mehul T. Patel:

The subject project received bids in the January 18, 2019 letting. Based on the "as-read" Tabulation of Bids, the low bidder was K-Five Construction Corp. in the amount of \$1,878,874.58. As soon as possible, please send an email verifying that the Village of Bensenville concurs in the award of this project to the low bidder.

<image002.png>

Thanks,

Carmen E. Ramos, P.E.
Federal Aid Design Program Engineer
IDOT D-1 / Bureau of Local Roads
Tel: 847-705-4021

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, January 22, 2019 1:04 PM
To: Joseph Caracci
Subject: RE: White Pines

Thanks. Our total loan amount for the purposes of the Planning Report is going to go up because IEPA is making us pull the construction contingency out of our construction estimate, which means we had to inflate unit prices so that the estimate included the contingency (I think a contingency is important considering we're fairly early on in design development). Then, they are requiring that we provide a loan contingency of 10% for planning purposes. This effectively adds 10% to the loan amount indicated in the Planning Report. But, the actual loan will be based on the actual project costs, so the actual loan amount should be significantly lower than what the Planning Report will say.

It's a little confusing, so let me wrap up the revised Planning Report this week and then I'll send to you for Village review. There will be some numbers I need you/Amit to verify and/or provide anyways, so we can work through how the cost estimate is structured at that time. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, January 22, 2019 11:52 AM
To: Bryan Welch <bwelch@cbbel.com>
Subject: FW: White Pines

Hope this works

From: Amit Thakkar <AThakkar@bensenville.il.us>
Sent: Tuesday, January 22, 2019 9:53 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Evan Summers <ESummers@bensenville.il.us>
Subject: RE: White Pines

If the rate is 2.21%, then the analysis is as below, the Village resources are increasing from 52k to 66k annually with the rate change from 1.8% to 2.2%, everything else remains the same.

Thanks,
Amit

	Parcels	Account	Consumption	Amount
Project Area	290.00	267.00	2,615,245.00	376,050.72
Outside the Project Area	-	55.00	12,745,838.00	111,611.28
		322.00	15,361,083.00	487,662.00

	Loan	6,100,000.00
	Rate	2.21%
	Term (Years)	20.00
	Annual Debt Service	380,658.82
	Current Charges	376,050.72
	Base Charge	250,700.48
	50% Surcharge	125,350.24
	Base Charge	250,700.48
	Current Surcharge	125,350.24
	125% additional charge for debt service	313,375.60
	125% additional charges collected for the debt service	313,375.60
	Village's resources	67,283.22
	Total debt service to IEPA	380,658.82

	Loan	6,100,000.00	6,100,000.00
	Rate	1.80%	2.21%
	Term (Years)	20.00	20.00
	Annual Debt Service	365,894.64	380,658.82
	Current Charges	376,050.72	376,050.72
	Base Charge	250,700.48	250,700.48
	50% Surcharge	125,350.24	125,350.24
	Base Charge	250,700.48	250,700.48
	Current Surcharge	125,350.24	125,350.24
	125% additional charge for debt service	313,375.60	313,375.60
	125% additional charges collected for the debt service	313,375.60	313,375.60
	Village's resources	52,519.04	67,283.22
	Total debt service to IEPA	365,894.64	380,658.82

Thanks,
Amit

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Monday, January 21, 2019 6:29 PM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Amit Thakkar <AThakkar@bensenville.il.us>
Subject: Re: White Pines

I can ask Amit to run the numbers for a 2.2%.

Sent from my iPhone

On Jan 21, 2019, at 4:19 PM, Bryan Welch <bwelch@cbbel.com> wrote:

Hey, following up on the voicemail I left you earlier, the Planning Report submitted in 2015 assuming an IEPA loan rate of 2.21%. I'm not sure how we arrived at that but it seems to be pretty reasonable and much more likely than 1.8%. Curious what you think about using that for our analysis rather than 1.8%. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

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E-Mail: bwelch@cbbel.com

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Sent: Monday, January 21, 2019 3:19 PM

To: Bryan Welch <bwelch@cbbel.com>

Subject: FW: White Pines

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Sent: Monday, January 21, 2019 9:38 AM

To: Joseph Caracci <JCaracci@bensenville.il.us>; Evan Summers <ESummers@bensenville.il.us>

Subject: White Pines

4000 Gallons

<image001.png>

5000 Gallons

<image002.png>

2017 – Unincorporated area income analysis

<image003.png>

(Scenario with no annexation)

<image004.png>

In the annexation scenario, the \$50 fee + additional revenue + village's resources will be added to meet the debt service obligation.

Thanks,

Amit Thakkar,

Director of Finance

<image005.jpg>

12 S Center Street

Bensenville, IL 60106

Ph: 630-350-3497

Email: athakkar@bensenville.il.us

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, January 24, 2019 8:03 AM
To: Joseph Caracci
Subject: IEPA Form
Attachments: Appendix D - Project Planning Submittal Checklist.pdf

Hi Joe,

Could you please revise/complete page 3 of the attached PDF, sign and email back to me? Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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From: Mehul Patel
Sent: Thursday, January 31, 2019 2:44 PM
To: Bryan Welch; Joseph Caracci
Subject: RE: White Pines Planning Report - Draft for Review

Bryan,

I've read through the report and have some minor comments/clarifications.

1. Throughout the report, there are statements about removing and replaced lead service lines. I think the statements are somewhat misleading because we're not physically removing all the lead services lines from the ground. It needs to be clarified that we will be abandoning all lead services in place (standard industry practice) and installing a new a copper service in its place.
2. Page 19, last paragraph, this will be a public document so I think it will a good idea to include that any dissenting parcels wishing to connect their water service to the Village main outside of the project scope will need a permit to do so from the Village. I know its self-explanatory but doesn't hurt to include it in the report.

The following comments are more for the Village to clarify

1. The Village has been depleting the unincorporated funds for the repairs we have had to make in the White Pines Area in recent months. Table 2.3 states the \$900,000 fund balance to be applied towards the project. Is this a set amount?
2. Table 3.8, the footnote only applicable to non-seniors. Not sure if that clarification is needed in the footnote as it is clarified elsewhere in the report. The scenario doesn't take into account for those who can potentially become seniors within the first 5 years of the project and request the reduction of fee from \$50 to \$25. I suppose it's hard one to figure out and if it does happen, it would be subsidized by the Village's water/sewer funds.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, January 24, 2019 11:29 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: White Pines Planning Report - Draft for Review

Hi Joe/Mehul,

The draft revised Planning Report for White Pines is available for your review. Due to file sizes, you can download the documents [here](#). I'd say it's 98% complete, with a few financial items that need to be provided and/or confirmed by the Village. I've also included the various Appendices and Exhibits that will be included with the Planning Report.

Once any Village review comments are incorporated, I was planning to call Chris Nifong and let him know that all comments have been addressed and see whether he thinks formal responses to his email comments separate from the Planning Report are necessary since they have all been addressed in the revised Planning Report.

Let me know if you have any questions or need any additional information. Thanks.

Bryan Welch, PE

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Sent: Thursday, January 24, 2019 11:29 AM
To: Joseph Caracci; Mehul Patel
Subject: White Pines Planning Report - Draft for Review

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Let me know if you have any questions or need any additional information. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, January 31, 2019 3:23 PM
To: Mehul Patel; Joseph Caracci
Subject: RE: White Pines Planning Report - Draft for Review

Thanks, Mehul. Please see my follow up below.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
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E-Mail: bwelch@cbbel.com
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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Thursday, January 31, 2019 2:44 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: White Pines Planning Report - Draft for Review

Bryan,

I've read through the report and have some minor comments/clarifications.

1. Throughout the report, there are statements about removing and replaced lead service lines. I think the statements are somewhat misleading because we're not physically removing all the lead services lines from the ground. It needs to be clarified that we will be abandoning all lead services in place (standard industry practice) and installing a new a copper service in its place. I will make this change.
2. Page 19, last paragraph, this will be a public document so I think it will a good idea to include that any dissenting parcels wishing to connect their water service to the Village main outside of the project scope will need a permit to do so from the Village. I know its self-explanatory but doesn't hurt to include it in the report. I will make this change.

The following comments are more for the Village to clarify I will wait to hear from the Village on these.

1. The Village has been depleting the unincorporated funds for the repairs we have had to make in the White Pines Area in recent months. Table 2.3 states the \$900,000 fund balance to be applied towards the project. Is this a set amount?
2. Table 3.8, the footnote only applicable to non-seniors. Not sure if that clarification is needed in the footnote as it is clarified elsewhere in the report. The scenario doesn't take into account for those who can potentially become seniors within the first 5 years of the project and request the reduction of fee from \$50 to \$25. I suppose it's hard one to figure out and if it does happen, it would be subsidized by the Village's water/sewer funds.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>

Sent: Thursday, January 24, 2019 11:29 AM

To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>

Subject: White Pines Planning Report - Draft for Review

Hi Joe/Mehul,

The draft revised Planning Report for White Pines is available for your review. Due to file sizes, you can download the documents [here](#). I'd say it's 98% complete, with a few financial items that need to be provided and/or confirmed by the Village. I've also included the various Appendices and Exhibits that will be included with the Planning Report.

Once any Village review comments are incorporated, I was planning to call Chris Nifong and let him know that all comments have been addressed and see whether he thinks formal responses to his email comments separate from the Planning Report are necessary since they have all been addressed in the revised Planning Report.

Let me know if you have any questions or need any additional information. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, February 1, 2019 11:15 AM
To: Joseph Caracci
Subject: FW: Draft Meeting Summary - White Pines (Bensenville) L174402

FYI, Chris gave me the go ahead to submit the revised Planning Report. He said they don't need a cover letter, just state in the transmittal that it addresses previous comments. Are you good with me getting that out later today or Monday? Do you want any hardcopies for the Village file?

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Tuesday, November 20, 2018 10:47 AM
To: Bryan Welch <bwelch@cbbel.com>; Bingenheimer, Gary <Gary.Bingenheimer@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Allen, Heidi <Heidi.Allen@Illinois.gov>
Subject: RE: Draft Meeting Summary - White Pines (Bensenville) L174402

Bryan,

I have reviewed your draft planning review response and have a few comments listed below.

1. In the updated project costs, please revise the contingency to be 10% of the construction costs (response to item 3) and revise the other total costs. We use 10% during planning and reduce it to 3% in the loan agreement after the actual bid costs are known.
2. Provide a detailed cost breakdown of the estimated construction costs that includes: length and sizes of mains, water services, valves, hydrants, meters, construction area restoration, backfill, unit prices, etc.
3. Is the construction site map (Exh.5 of the original planning) still correct? If any changes, provide a new map.
4. What are total gallons of water used by the White Pines area customers per year based on billing records.
5. Are there 280 billed customers in the White Pines area?
6. Are there any other customers who will pay the proposed unincorporated water rates?
7. What is the amount of water, in gallons or billing units, used each month by the average residential user in the White Pines area, based on actual billing records.
8. Provide an explanation and examples of how the existing and proposed water service bill for an average residential customer is calculated, based on the average gallons used in the White Pines area.
9. Response number three states that a new existing rate structure is in place. Provide a copy of the existing rate ordinance. When did it become effective?
10. A basic demonstration must be made that shows sewer system revenue and any proposed rate increase will be adequate to cover water system operation, maintenance and replacement costs and that the annual loan repayment has been included in the budget. This should include a summary that compares the existing and anticipated annual sewer system expenses to the annual revenue generated by the current and/or projected water user charges and explains any other revenue used to operate the system. For planning purposes, this can be a basic budget summary. After planning is approved, a detailed demonstration for loan repayment is required as part of the financial checklist submittal/loan application form, which is reviewed by the IEPA loan program Attorney and Financial Manager.

11. A response has not been provided to the third paragraph in item three of the June 3, 2015 IEPA planning review letter. Has the Village conducted any outreach or perhaps conducted a survey of the White Pines area customers to see how many are in favor of the proposed project? Do you have any survey results, positive comments or any type of documentation that shows the affected property residents are willing to support the project and the new proposed loan repayment charges? The project file includes a letter from the White Pines Civic Association with several negative comments regarding the proposed project. As you know, the planning approval process will include a public hearing that will solicit public comments. The Village will have to address all public comments. I think the public hearing will be more effective if the Village can show support for the project with previously obtained written documentation, instead of forcing supporters to explain their opinion in front of outspoken dissenters. There might be people that support the project, but don't want to go to a public hearing.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>

Sent: Monday, November 19, 2018 7:46 AM

To: Bingenheimer, Gary <Gary.Bingenheimer@Illinois.gov>; Nifong, Chris <Chris.Nifong@Illinois.gov>

Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

Subject: [External] RE: Draft Meeting Summary - White Pines (Bensenville)

Hi Gary/Chris,

Attached for your review is the Village of Bensenville/CBBEL's response to IEPA's June 2015 comments on the Facility Plan for the White Pines Water Main Replacement project in Bensenville. We wanted to get our response to you in draft format for your review prior to submitting the formal response. Our intent would be to follow up with submittal of the revised Facility Plan soon after receiving your concurrence on the draft response. Please let us know if you have any questions or need anything else from us to review. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Design

Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600 1938 E. Lincoln Highway, Suite 212

Rosemont, Illinois 60018

New Lenox, Illinois 60451

Phone: (847) 823-0500

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From: Bingenheimer, Gary <Gary.Bingenheimer@Illinois.gov>

Sent: Tuesday, October 30, 2018 1:58 PM

To: Bryan Welch <bwelch@cbbel.com>; Allen, Heidi <Heidi.Allen@Illinois.gov>; Olson, Joanne

<Joanne.Olson@Illinois.gov>; Nifong, Chris <Chris.Nifong@Illinois.gov>

Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; McMillan, Dave

<DAVE.MCMILLAN@Illinois.gov>; Sofat, Sanjay <Sanjay.Sofat@Illinois.gov>

Subject: RE: Draft Meeting Summary - White Pines (Bensenville)

Bryan and Joe,

The Agency has discussed the Bensenville-White Pines Subdivision situation following our October 25 conference call and offers the following:

- 1) The Agency reaffirms that the replacement of drinking water service lines is SRF loan eligible, regardless of the ownership of the infrastructure, provided there is a need to improve water pressure to safe levels or to prevent contamination caused by leaks or breaks in the pipes. The replacement of lead service lines is loan eligible regardless of water pressure levels or the history of leaks/breaks.

- 2) We await your response to the June 2015 Planning Review Letter from Chris Nifong before continuing the Agency's review of the Planning Report and proceeding towards working Bensenville's request for loan funding forward, the next step of which would be the Agency's production of a project summary document entitled a "Preliminary Environmental Impact Determination" (PEID) and the required public hearing held by the loan applicant.
- 3) One issue not mentioned in June 2015 Planning Review Letter which is now relevant is the expiration of any environmental clearances/sign-offs necessary for completion of the project. Please provide Chris Nifong with an updated Environmental Review Checklist (<https://www2.illinois.gov/epa/Documents/iepa/epa-forms/water-quality/financial-assurance/loan-applicant-environmental-checklist.pdf>) and any required environmental clearances/sign-offs. While these may not be immediately available they will need to be submitted/addressed before the Agency can produce the PEID mentioned above and the loan applicant can hold the necessary public hearing.
- 4) Pending the outcome of the final project configuration, when responding the Chris's review letter we would like to have updated/current cost estimates for project completion provided. We realize this may involve a few different "alternatives" for project completion but we would like to have it stated as clearly as possible the impact to the local residents on a monthly bill basis in terms of why they are paying for water service currently and what they will be paying per month following project completion.

Thank you for your efforts as we all try and work towards a solution to the situation.

Please don't hesitate to contact us with any questions.

Gary Bingenheimer, P.E.
Manager
Infrastructure Financial Assistance Section
Illinois EPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276
Phone (217) 782-2027
e-mail: gary.bingenheimer@illinois.gov

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, October 29, 2018 7:50 AM
To: Allen, Heidi <Heidi.Allen@Illinois.gov>; Bingenheimer, Gary <Gary.Bingenheimer@Illinois.gov>; Olson, Joanne <Joanne.Olson@Illinois.gov>; Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: [External] Draft Meeting Summary - White Pines (Bensenville)

Good morning,

Attached is a draft summary of our conference call from last week. Please let me know if you have any comments or additions by the end of the week. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Design
Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600 1938 E. Lincoln Highway, Suite 212
Rosemont, Illinois 60018 New Lenox, Illinois 60451
Phone: (847) 823-0500
Fax: (847) 823-0520 E-Mail: bwelch@cbbel.com

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, February 4, 2019 9:29 AM
To: Joseph Caracci; Mehul Patel
Cc: Alex Schaefer
Subject: White Pines

Hi Joe/Mehul,

Just following up on an item discussed at our preliminary engineering review meeting last month. The Village had indicated that they would pothole the Nicor main and Village water main at the intersection of IL 83 Frontage and Woodland Avenue, so that we have their exact horizontal and vertical locations for the purposes of determining how water main connections can be made in this area. Has the Village performed the pothole work yet?

If possible, would the Village also be able to pothole the existing DWC and Village water mains on Church Street in the vicinities of the proposed connections of the new 8" mains on Crest, Red Oak and Forestview to the Village main on Church? It would be helpful to have horizontal and vertical locations of both mains so we can determine the extent of any issues created by the proximity of the DWC main to the Village's main. I know the Village is planning to pothole all existing water services in the spring to identify all lead services, so the potholing on Church could wait until then if necessary.

Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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From: Mehul Patel
Sent: Monday, February 4, 2019 10:30 AM
To: Max Geib
Cc: Alex Schaefer; Bryan Welch; Joseph Caracci
Subject: RE: White Pines

Max,

Please see below. When weather and time permits, can you please conduct the potholing at Frontage Rd/Woodland and Church/Crest, Church/Red Oak and Church/Forestview? Please coordinate with Bryan and his team so they can be available to collect the potholing data.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, February 4, 2019 9:29 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: White Pines

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Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
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From: Mehul Patel
Sent: Monday, February 4, 2019 10:30 AM
To: Max Geib
Cc: Alex Schaefer; Bryan Welch; Joseph Caracci
Subject: RE: White Pines

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Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, February 4, 2019 9:29 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: White Pines

Hi Joe/Mehul,

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Thanks.

Bryan Welch, PE
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Christopher B. Burke Engineering, Ltd.
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From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, February 5, 2019 2:11 PM
To: Joseph Caracci
Subject: RE: WP - Drone Letter (draft)

Looks good to me.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, February 05, 2019 11:20 AM
To: Bryan Welch <bwelch@cbbel.com>
Subject: FW: WP - Drone Letter (draft)
Importance: High

Bryan,

I probably should have ran this past you as well, but it has received the Mayor's blessing as is. Any important changes? I can likely get this in the mail this week to the residents in WP.

Joe

From: Evan Summers <ESummers@bensenville.il.us>
Sent: Monday, February 04, 2019 5:20 PM
To: Frank DeSimone <FDeSimone@bensenville.il.us>; Frank D <sppd757@yahoo.com>
Cc: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: FW: WP - Drone Letter (draft)
Importance: High

Mayor,

Attached is the letter that we are planning on sending out to the residents of White Pines as it relates to the use of drones. I think the team has done a good job of being transparent and forthright with information. As with anything in White Pines, however, I'm sure a vocal minority will oppose us.

If you could take a quick read through of the letter and bless it before sending out, I'd appreciate it.

eks

Evan K. Summers
Village Manager



12 South Center Street, Bensenville, IL 60106
P: 630.350.3420 F: 630.350.1105

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Monday, February 4, 2019 11:34 AM
To: Evan Summers <ESummers@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: WP - Drone Letter (draft)

Can you each review and provide comments/thoughts.

Thanks,

Joe

Joseph M. Caracci, P.E.
Director of Public Works



717 E. Jefferson Street, Bensenville, IL 60106
P: 630.350.3431 F: 630-594-1148 E: jcaracci@bensenville.il.us



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From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, February 13, 2019 1:55 PM
To: Mehul Patel
Cc: Alex Schaefer; Joseph Caracci
Subject: Forestview Drive Pavement Patch

Hi Mehul,

Regarding the pavement patching for water main on Forestview Drive, we're assuming a 7'-wide Class D patch will be needed for quantity calculation purposes. The pavement width on Forestview is only 11 or 12 feet wide, meaning we would be leaving 4'-5' of old pavement after the patch. Just wanted to confirm whether you were good with that approach or if you wanted us to include the full pavement width in our patch quantity for Forestview. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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From: Mehul Patel
Sent: Thursday, February 14, 2019 7:50 AM
To: Bryan Welch
Cc: Alex Schaefer; Joseph Caracci
Subject: RE: Forestview Drive Pavement Patch

For quantity purpose, I'd estimate the entire width of the roadway.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, February 13, 2019 1:55 PM
To: Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: Forestview Drive Pavement Patch

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, March 11, 2019 11:11 AM
To: Joseph Caracci; Mehul Patel
Cc: Alex Schaefer
Subject: White Pines - Drone Survey

Hi Joe/Mehul,

I wanted to let you know that Drone Ascent is planning to start drone survey work at White Pines on Monday, March 18th. This work will be weather-dependent (no snow cover, dry pavement, temps above 30, etc). CBBEL's survey crew will be out painting control targets this week. Just wanted to let you know so you can get any notifications out. Please let me know if you have any questions. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, March 22, 2019 1:35 PM
To: Joseph Caracci; Mehul Patel
Subject: White Pines Soil Borings

Hi Joe/Mehul,

Just wanted to make sure you remembered that we need to do some additional soil borings to refresh the LPC 662/663 analysis for White Pines, and to support the corrosion prevention investigation work that is included in our contract scope for IL Route 83. I know we discussed this last fall and put the work on hold. Now that the weather seems to be breaking, are the soil borings something we can start thinking about getting taken care of? Thanks.

Task 4 – Geotechnical Investigation: CBBEL's subconsultant, Testing Service Corporation (TSC) will obtain five (5) additional soil borings to determine the existing cross-section of the pavements and subsurface soil conditions within the project area. Borings will be drilled to a depth of approximately eight (8) feet. TSC will prepare a report describing existing soil conditions and make recommendations for remediation. The report will be performed by a soils engineer and reviewed by CBBEL.

The soil will also be tested for potential contaminants. TSC will perform investigation and testing work necessary to substantiate completion of IEPA Form LPC-662 or LPC-663. This work will include collection/preservation of soil samples and conducting a search to identify any Potentially Impacted Properties (PIPs). If PIPs are not present, TSC will perform the requisite pH test and provide the Village with the documentation necessary to sign Form LPC-662. If PIPs are identified, TSC will perform the additional required testing and provide signed LPC-663 forms to the Village for use during construction. TSC will provide a list of dump sites that will accept the material identified in the PIP. The list shall be included in the Geotech report.

The soil borings taken on 3rd Avenue, IL Route 83 and IL Route 83 Frontage Road will also be tested for corrosion-related parameters as needed to complete Task 5.

Task 5 – Corrosion Control and Protection Design Study: CBBEL will coordinate with our subconsultant, Corpro, to prepare a corrosion control design study, including cathodic protection, and make recommendations with respect to a feasible corrosion control and protection approach. The extents of the corrosion control and protection study will be limited to 3rd Avenue, IL Route 83 and IL Route 83 Frontage Road.

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Sent: Monday, March 25, 2019 8:54 AM
To: Joseph Caracci
Cc: Mehul Patel
Subject: RE: White Pines Soil Borings
Attachments: Core Locations - March 2019.pdf

Hi Joe,

Please see the attached exhibit. Approximate location of the 2019 supplemental borings are in purple. We anticipate taking 5 of them.

Please let me know when I'm ok to reach out to TSC to schedule the work. I'm guessing it will be at least a week or two before they are actually on site to do the work. Thanks.

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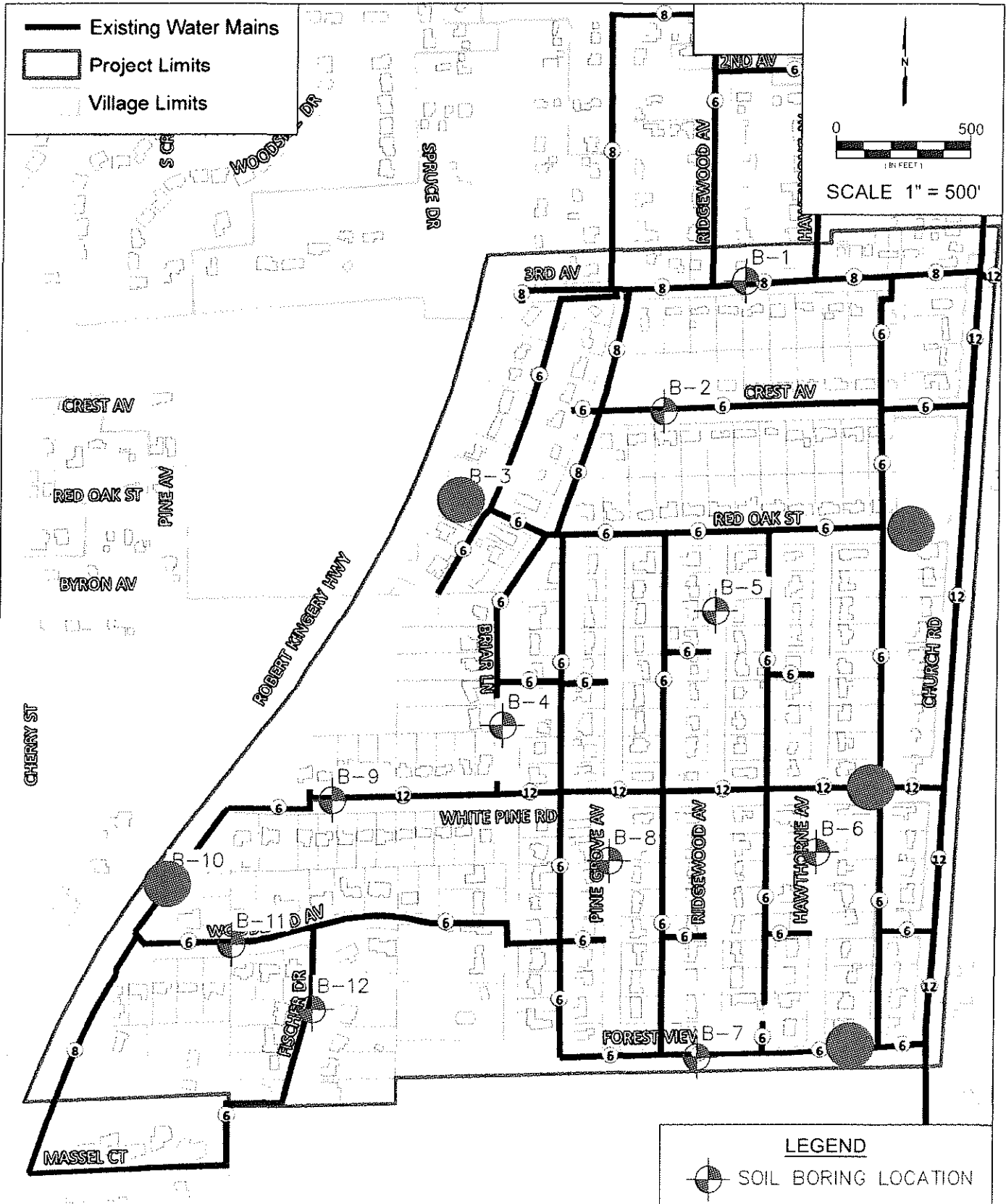
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BORING LOCATION PLAN
 WHITE PINES AREA
 WATER MAIN
 BENSENVILLE, ILLINOIS



TESTING SERVICE CORP.
 457 EAST GUNDERSEN DRIVE
 CAROL STREAM, ILLINOIS 60188

DRAWN BY: EAD

CHECKED BY: TRP

JOB NO. : L-84,560

DATE: 01-25-16

PAGE NO.

1 OF 1

From: Mehul Patel
Sent: Monday, March 25, 2019 10:29 AM
To: brandys@addisontownship.com
Cc: Joseph Caracci; Bryan M Welch (bwelch@cbbel.com)
Subject: White Pines - Soil borings
Attachments: Core Locations - March 2019.pdf

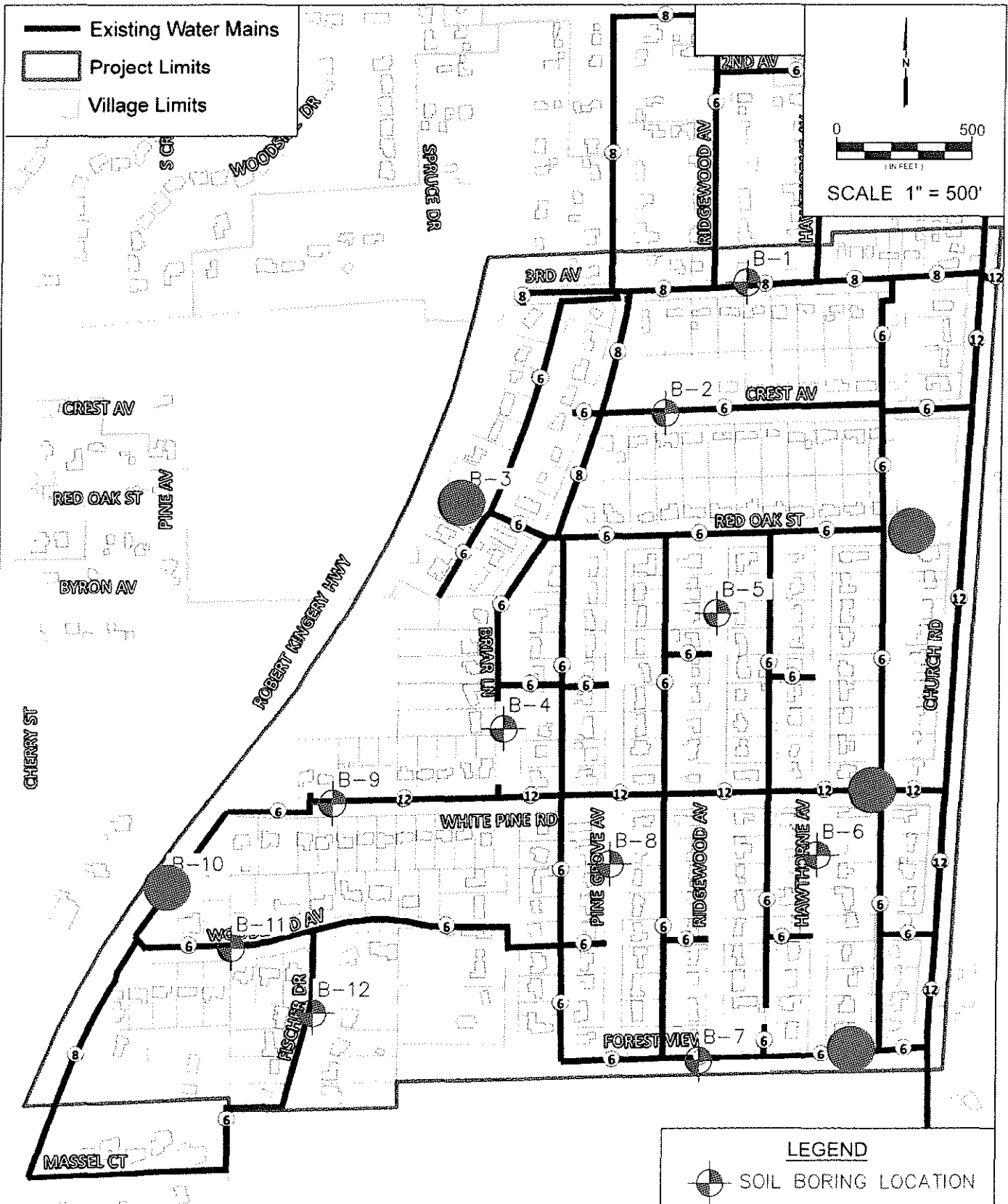
Good morning Brandy,

Per our phone conversation, attached please find the exhibit depicting the locations of the proposed soil borings. We need to perform this work as part of our ongoing design process to replace the watermain in the White Pines subdivision. At this time, we anticipate the soil borings work will happen in the next two weeks. Our intent is to keep the township informed of our work in this subdivision. Please review and let me know if we need a permit to perform this work in the Township ROW. Thanks.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works



717 E Jefferson Street, Bensenville, Illinois 60106
Phone: [630-594-1196](tel:630-594-1196) Fax: [630-594-1148](tel:630-594-1148)
Email: mpatel@bensenville.il.us



BORING LOCATION PLAN
WHITE PINES AREA
WATER MAIN
BENSENVILLE, ILLINOIS



TESTING SERVICE CORP.
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

LEGEND	
	SOIL BORING LOCATION
DRAWN BY: EAD	PAGE NO. 1 OF 1
CHECKED BY: TRP	
JOB NO. : L-84,560	
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From: Mehul Patel
Sent: Wednesday, March 27, 2019 9:01 AM
To: Bryan Welch
Cc: Joseph Caracci; Max Geib
Subject: RE: Potholing of Private Services

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Village of Bensenville
630-594-1196

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To: Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: Potholing of Private Services

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Let me know if you have any other questions. Thanks.

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Good morning Brian,

Yes, we do still intent to pothole the services. I plan to speak with Max next week once he is back from vacation. How is the drone survey going? Similar to the drone survey notification, I'd like to also send out notification for potholing. There are some logistical issues with committing two guys doing the potholing amongst other work.

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Village of Bensenville
630-594-1196

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Subject: Potholing of Private Services

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Sent: Wednesday, March 27, 2019 9:56 AM
To: Mehul Patel
Cc: Joseph Caracci; Max Geib
Subject: RE: Potholing of Private Services

Thanks, Mehul, sounds good.

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Hi Mehul,

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, March 27, 2019 10:27 AM
To: Mehul Patel; Joseph Caracci
Subject: RE: White Pines Soil Borings

Just wanted to confirm that I'm ok to have TSC schedule this project. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com
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From: Bryan Welch
Sent: Wednesday, March 27, 2019 10:27 AM
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Subject: RE: White Pines Soil Borings

Hi Mehul,

The soil boring holes will be backfilled with soil cuttings and cold patch. Thanks.

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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Wednesday, March 27, 2019 8:30 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: White Pines Soil Borings

Bryan,

I got a call from Don Howard at Addison Township this morning. He indicated we don't need a permit for the soil borings. How does TSC typically backfill the boring holes that are in the pavement?

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville

630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, March 25, 2019 8:54 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>
Cc: Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: White Pines Soil Borings

Hi Joe,

Please see the attached exhibit. Approximate location of the 2019 supplemental borings are in purple. We anticipate taking 5 of them.

Please let me know when I'm ok to reach out to TSC to schedule the work. I'm guessing it will be at least a week or two before they are actually on site to do the work. Thanks.

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From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Friday, March 22, 2019 1:43 PM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Mehul Patel <MPatel@bensenville.il.us>
Subject: Re: White Pines Soil Borings

Bryan,

Can you provide a proposed location for the borings? I would like to give advance warning to the Township on work within the area.

Thanks,

Joe

Sent from my iPad

On Mar 22, 2019, at 1:35 PM, Bryan Welch <bwelch@cbbel.com> wrote:

Hi Joe/Mehul,

Just wanted to make sure you remembered that we need to do some additional soil borings to refresh the LPC 662/663 analysis for White Pines, and to support the corrosion prevention investigation work that is included in our contract scope for IL Route 83. I know we discussed this last fall and put the work on hold. Now that the weather seems to be breaking, are the soil borings something we can start thinking about getting taken care of? Thanks.

<image001.png>

<image002.png>

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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From: Mehul Patel
Sent: Wednesday, March 27, 2019 11:07 AM
To: Bryan Welch
Cc: Joseph Caracci
Subject: Re: White Pines Soil Borings

Yes go ahead and schedule it.

On Mar 27, 2019, at 10:27 AM, Bryan Welch <bwelch@cbbel.com> wrote:

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Village of Bensenville
630-594-1196

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<image001.png>

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, April 4, 2019 2:31 PM
To: Joseph Caracci; Mehul Patel
Cc: Alex Schaefer
Subject: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Hi Joe/Mehul,

The Pre-Final plans, specifications and estimate for the public improvements associated with the White Pines Water Main Rehab project can be downloaded here. Also included with the pre-final documents is a Word document with a handful of items we're hoping the Village can provide input on as part of their pre-final review. Please let us know if you would like any plan hardcopies made and sent to your office.

The private water service work will be designed and incorporated into the plan set once the aerial survey has been completed and processed (anticipated late April).

Cost Estimate

You'll see that our construction cost estimate is approximately \$500k higher than what you last saw in January. This is due to the introduction of the following into the estimate:

- Contingency Items (to establish unit prices for work that may or may not be needed during construction): \$192,000
- Engineer's Field Office (per Village direction): \$20,000
- Contingency built into various quantities for flexibility during construction: \$219,000

The above counts for the majority of the cost increase. The other significant contributor, which you'll see on the plans, is very conservative driveway R&R quantities. Per my conversation with Mehul awhile back, we showed all driveways being removed and replaced back to the ROW line. If we changed our approach to only include the driveway aprons and/or what is needed to restore construction disturbances, the cost associated with these items would be significantly reduced.

Please let me know if you have any questions or need any additional information. I'm happy to sit down with you to discuss any aspects of the project in more detail, either prior to or after your review. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, April 18, 2019 10:01 AM
To: Mehul Patel
Cc: Alex Schaefer; Joseph Caracci
Subject: RE: 12.2.05 - White Pines Watermain
Attachments: Exhibit 5 - Proposed Project.pdf

Hi Mehul,

Is this what you're looking for? We submitted this exhibit with the Planning Report to IEPA in January. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Thursday, April 18, 2019 9:57 AM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Alex Schaefer <aschaefer@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: 12.2.05 - White Pines Watermain

Bryan,

I am checking to see if you have an updated overall exhibit of the proposed watermain improvements for the White Pine Project. We have from few years ago and we have had made some changes to project since then. If you don't have one, can you please prepare and email it? Thanks.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works



717 E Jefferson Street, Bensenville, Illinois 60106
Phone: [630-594-1196](tel:630-594-1196) Fax: [630-594-1148](tel:630-594-1148)
Email: mpatel@bensenville.il.us

From: Mehul Patel
Sent: Thursday, April 18, 2019 9:57 AM
To: Bryan M Welch (bwelch@cbbel.com)
Cc: Alex Schaefer; Joseph Caracci
Subject: 12.2.05 - White Pines Watermain

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Assistant Director of Public Works



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Phone: [630-594-1196](tel:630-594-1196) Fax: [630-594-1148](tel:630-594-1148)
Email: mpatel@bensenville.il.us

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, April 22, 2019 3:43 PM
To: Joseph Caracci; Mehul Patel
Subject: White Pines - Soil Borings
Attachments: Boring Locations - March 2019.pdf

Hi Joe/Mehul,

TSC just notified me that JULIE should be clear by late Wednesday and they plan to drill the supplemental soil borings on Thursday and/or Friday of this week. Attached is the map showing the approximate boring locations. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

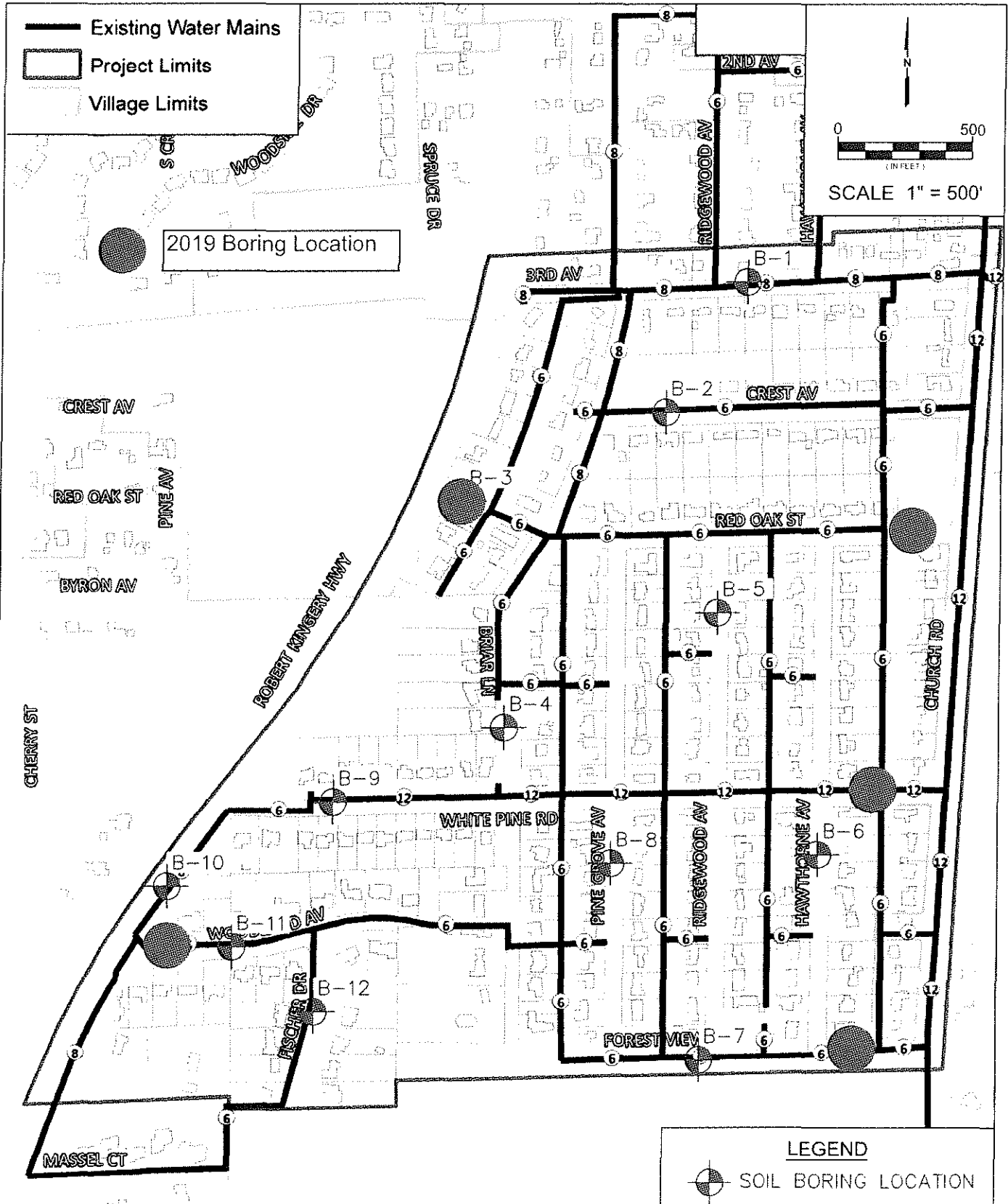
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BORING LOCATION PLAN
WHITE PINES AREA
WATER MAIN
BENSENVILLE, ILLINOIS



TESTING SERVICE CORP.
 457 EAST GUNDERSEN DRIVE
 CAROL STREAM, ILLINOIS 60188

DRAWN BY: EAD
CHECKED BY: TRP
JOB NO. : L-84,560
DATE: 01-25-16

PAGE NO.
 1 OF 1

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, April 24, 2019 12:59 PM
To: Joseph Caracci; Mehul Patel
Subject: IEPA Planning Report Review Comments - White Pines
Attachments: IEPA_VOB_WhitePinesWaterMain.pdf

Hi Joe/Mehul,

I received the attached planning review comments from IEPA today. After reviewing, they all appear to be very minor and just require some discussion/clarification with Chris Nifong as well as an internal decision by the Village about the loan term. I anticipate little or no revisions to the Planning Report.

Please let me know if you would have time for a brief call sometime this week to discuss the comments together and talk about next steps. I'm available this afternoon, early afternoon tomorrow and late morning/early afternoon on Friday. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

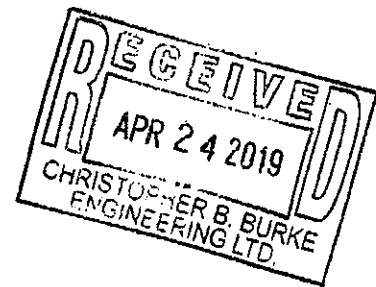
JB PRITZKER, GOVERNOR

JOHN J. KIM, ACTING DIRECTOR

217/782-2027

APR 19 2019

Mr. Joseph Caracci, Director of Public Works
Village of Bensenville
717 E. Jefferson Street
Bensenville, Illinois 60106



Re: Bensenville - L174402 (White Pines water main replacements)
Facility Plan Review

Dear Mr. Caracci:

The purpose of this letter is to provide the results of our review of submitted information for the Village of Bensenville's proposed water mains project, loan number L174402. The reviewed information consists of the February 1, 2019, Village of Bensenville White Pines Watermain Replacement Project planning report with transmittal letter dated February 5, 2019. This information was prepared by Christopher B. Burke Engineering, Ltd. In order to continue review of this project, additional information must be submitted. Please provide the following information:

1. Page 3 of the planning report indicates the project will identify and replace lead water services in the project area. Have the water services being replaced been identified as being lead service lines? Please note that lead service line replacement work currently qualifies for additional IEPA Loan Program incentives. Bensenville will need to identify, and track cost associated with lead service line replacements to qualify for the incentives. Please explain how this will be done.
2. The Preliminary Estimate of Cost (Exhibit 6) indicates that the project will include construction of 812 feet of 6-inch diameter water main. However, the planning report does not mention construction of 6-inch water main and the proposed project map (Exhibit 5) shows that only 8-inch diameter water main is being constructed. Please explain whether 6-inch water main is being constructed and revise Exhibit 5, if necessary.
3. For all proposed construction areas, please provide records of consultation from the Illinois Department of Natural Resources (IDNR) to document compliance with Illinois Endangered Species Act (Part 1075) and the Wetlands Protection Act (Part 1090) as requested by number 2) of the IEPA Loan Applicant Environmental Checklist. The 11-1-18 Eco-CAT results and 11-14-18 IDNR follow up letter do not include evaluation results for Part 1090 (wetlands review). Please provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

4302 N. Main St., Rockford, IL 61103 (815) 987-7760
595 S. State St., Elgin, IL 60123 (847) 608-3131
2125 S. First St., Champaign, IL 61820 (217) 278-5800
2009 Mall St., Collinsville, IL 62234 (618) 346-5120

9511 Harrison St., Des Plaines, IL 60016 (847) 294-4000
412 SW Washington St., Suite D, Peoria, IL 61602 (309) 674-3022
2309 W. Main St., Suite 116, Marion, IL 62959 (618) 993-7200
100 W. Randolph St., Suite 4-500, Chicago, IL 60601

PLEASE PRINT ON RECYCLED PAPER

4. Because part of the project includes construction in or near a stream bank, floodway and/or wetland the project may require a permit from the Illinois Department of Natural Resources (IDNR) Office of Water Resources (OWR) to document compliance with the Illinois Lakes, Rivers, and Streams Act and Section 404 of the Federal Clean Water Act as requested by number 3) of the IEPA Loan Applicant Environmental Checklist. The previous planning report included comments, recommendations, and Regional Permit No. 3 from the OWR. However, the 2019 planning report does not include this information or documentation that the previous IDNR review is no longer valid. Please submit the project information to IDNR OWR, provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.
5. Because part of the project apparently includes construction in or near a stream bank, floodway and/or wetland, please provide records of consultation from the U.S. Army Corps of Engineers as indicated by number 3) of the IEPA Loan Applicant Environmental Checklist. Please provide a copy of all correspondence between the Village of Bensenville and U.S. Army Corps of Engineers, any permits, conditions, or recommendations issued by the Corps and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding specifications.
6. Please provide a copy of the IEPA construction permit for the project or indicate the status of the permit application.
7. Section 662.210 d) of the IEPA PWS loan program rules allows projects a 0.2 % environmental discount reduction to the standard loan interest rate, if at least 50% of eligible project costs fund any of the eligible categories: green infrastructure, lowering water demand, energy reduction, and removal or replacement of lead water mains or service lines. If you believe the project meets the environmental discount criteria, please provide a letter signed by a P.E. that explains how at least 50% of the IEPA loan eligible project costs are to fund any of the listed qualifying components.
8. It appears that this project will qualify for a thirty-year loan repayment period based on the life expectancy for transmission and distribution system pipe, and assuming Bensenville qualifies for the Small Community interest rate. Please indicate if Bensenville wants to use a 30-year loan repayment period for this project.

If you have any questions regarding this letter, please contact me at 217-782-2027.

Sincerely,



Chris Nifong, Project Manager
Infrastructure Financial Assistance Section
Bureau of Water

cc: Clerk, Village of Bensenville,
Engineer, Christopher B. Burke Engineering, Ltd.

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, April 24, 2019 1:13 PM
To: Mehul Patel; Joseph Caracci
Subject: RE: IEPA Planning Report Review Comments - White Pines

Hi Mehul,

Here is my availability next week:

Monday – 10am or later
Tuesday – Anytime except 11:30-2
Wednesday – PM
Friday - PM

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

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Bryan,

How does your calendar look next week for a call? It looks like the times you're available this week, will not work with Joe's schedule.

Mehul T. Patel, P.E., CFM

Assistant Director of Public Works

Village of Bensenville

630-594-1196

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Please let me know if you would have time for a brief call sometime this week to discuss the comments together and talk about next steps. I'm available this afternoon, early afternoon tomorrow and late morning/early afternoon on Friday. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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From: Mehul Patel
Sent: Wednesday, April 24, 2019 1:07 PM
To: Bryan Welch; Joseph Caracci
Subject: RE: IEPA Planning Report Review Comments - White Pines

Bryan,

How does your calendar look next week for a call? It looks like the times you're available this week, will not work with Joe's schedule.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, April 24, 2019 12:59 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: IEPA Planning Report Review Comments - White Pines

Hi Joe/Mehul,

I received the attached planning review comments from IEPA today. After reviewing, they all appear to be very minor and just require some discussion/clarification with Chris Nifong as well as an internal decision by the Village about the loan term. I anticipate little or no revisions to the Planning Report.

Please let me know if you would have time for a brief call sometime this week to discuss the comments together and talk about next steps. I'm available this afternoon, early afternoon tomorrow and late morning/early afternoon on Friday. Thanks.

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, April 29, 2019 10:33 AM
To: Joseph Caracci; Mehul Patel
Subject: FW: TPR 10828 - White Pines Water Main - Comments
Attachments: 10828 Potholing Request.pdf; 10828 Key Map for PHs.pdf

Hi Joe/Mehul,

Attached is a request from BP for the Village to pothole their pipeline at 7 locations in the project limits, to help them determine the impact of the Village's project on their pipeline. Let's add this to the discussion list for our conference call tomorrow. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

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From: Alex Martinez, Chicago Loop <Alejandro.Martinez@enengineering.com>
Sent: Monday, April 29, 2019 10:20 AM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Timothy.Fehr@bp.com; Williams, Kellen (SALEM LAND) <Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman <dvroman@enengineering.com>; Brian Tellez <btellez@enengineering.com>
Subject: RE: TPR 10828 - White Pines Water Main - Comments

Hi Bryan,

As mentioned in your responses below, the BP pipeline's existing depths will need to be verified via potholing in order to completely understand the implications of your design. Please review the information below and let this serve as the potholing request.

A BP Damage Prevention Specialist (DP) must be present to "watch and protect" during pipeline potholing activity. Please put in a One-Call ticket so that the DP is notified and so that the proper coordination can take place. Please use the attachments and the information below, which include footage along the pipeline and the DP's contact info.

Pothole #1: At the proposed 8" water main crossing - at the (i.e. 0' north of the) Red Oak Avenue centerline
Pothole #2: At the proposed 8" water main crossing - 735' north of the Red Oak Avenue centerline
Pothole #3: At the proposed 8" water main crossing - 62' north of the Woodland Avenue centerline
Pothole #4: At the proposed 6" water main crossing - 308' north of the Woodland Avenue centerline
Pothole #5: At the proposed 6" water main crossing - 514' north of the Woodland Avenue centerline
Pothole #6: At the proposed 8" water main crossing - 660' north of the Woodland Avenue centerline
Pothole #7: At the proposed pavement removal & replacement - 437' north of the Red Oak Avenue centerline (Note: Due to the large span between PH #1 and #2, requested to verify depth in an area with multiple pavement removal & replacement locations.)

DP's Contact Info:

Marcus Jamerson

312-231-2609
marcus.jamerson@bp.com

I will let the DP know that they should be expecting to hear from you soon. Let me know if you have any questions.

Thanks,

Alex Martinez
Sr. Design Engineer

EN Engineering

180 N. LaSalle Street, Suite 1400
Chicago, IL 60601

630 225 6087 (Office)
630 353 7777 (Fax)

alejandromartinez@enengineering.com

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, April 24, 2019 2:35 PM
To: Alex Martinez, Chicago Loop <Alejandro.Martinez@enengineering.com>
Cc: Timothy.Fehr@bp.com; Williams, Kellen (SALEM LAND) <Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman <dvroman@enengineering.com>
Subject: FW: TPR 10828 - White Pines Water Main - Comments

Hi Alex,

Thank you for your email related to BP coordination for the White Pines Water Main Replacement project in Bensenville. Please see our responses below in red. If additional discussion or coordination is required, please don't hesitate to reach out. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
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From: James Schmieder
Sent: Wednesday, April 24, 2019 1:49 PM
To: Bryan Welch <bwelch@cbbel.com>
Subject: FW: TPR 10828 - White Pines Water Main - Comments

Please see below.

James T. Schmieder
Utility Coordinator
Christopher B. Burke Engineering, Ltd.

From: Alex Martinez, Chicago Loop <Alejandro.Martinez@enengineering.com>
Sent: Wednesday, April 24, 2019 1:45 PM
To: James Schmieder <jschmieder@cbbel.com>
Cc: 'Fehr, Timothy (SALEM LAND)' <Timothy.Fehr@bp.com>; 'Williams, Kellen (SALEM LAND)' <Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman <dvroman@enengineering.com>
Subject: TPR 10828 - White Pines Water Main - Comments

Hi Jim,

I am an engineering consultant for BP Pipelines who is reviewing your plans for the White Pines Water Main Rehabilitation project in Bensenville, IL. Thank you for the pre-final plans you sent over to Kellen Williams. I have reviewed the plans and provided comments below. Please provide revised plans with the following change requests and clarifications.

General comments:

- Please provide a construction schedule and submit a construction equipment list (see attached). Also provide the locations of the proposed equipment crossings over the BP pipeline. Note that no construction equipment will be allowed to cross the BP pipeline without prior approval from BP.

The anticipated construction schedule is for work to start in March 2020 and be completed in November 2020. We do not yet have a contractor and therefore cannot yet provide detailed construction equipment info. However, the equipment is anticipated to be typical equipment for main replacement work with no specialty equipment required.

- Please provide the installation method for the proposed water lines and change the material (ductile iron) of the proposed water lines near the BP pipeline.

The proposed water main is proposed to be ductile iron pipe in accordance with Village standards and be installed via open cut/trenching method.

- Please confirm that there will be no finished grade changes above or within close proximity to the BP pipeline.

No finished grade changes above or within close proximity to the pipeline are anticipated.

Existing Conditions & Removal Plan (Drawings REM-1, REM-2, and REM-17):

- There are multiple locations with proposed pavement patches and pavement removal & replacement over the BP pipeline.
 - Please provide the pavement removal details (i.e. method and depth of removal) and confirm no finished grade changes over the BP pipeline.

Attached are the IDOT standard Class B (concrete) and D (asphalt) pavement patch details. All patch edges will be sawcut. Depth of removal will be to the bottom of the existing pavement, which is expected to be approximately 8" to 12" on average. No finished grade changes above or within close proximity to the pipeline are anticipated.

Existing Conditions & Removal Plan (Drawing REM-17):

- There are multiple locations with proposed adjustment of water lines crossing the BP pipeline along with proposed curb and gutter removal & replacement over the BP pipeline.
 - Please provide the curb & gutter removal details (i.e. method and depth of removal) and confirm no finished grade changes over the BP pipeline.

Attached is the curb and gutter R&R detail. All removal limits will be sawcut. Depth of removal will be to the bottom of the existing curb and gutter, which is expected to be approximately 12" to 18" on average. No finished grade changes above or within close proximity to the pipeline are anticipated.

- Please provide the water line adjustment details for proposed adjustments near the BP pipeline.

Please clarify the question about the water line adjustments. There are no water line adjustments anticipated as part of this project, only a new water main that is proposed to be installed. The existing water main will be retired and abandoned in place. We will add a note to the plans indicating that at pipeline crossings, the water main should cross under the pipeline with a minimum of 2' vertical clearance.

Utility Plan & Profile (Drawings UPP-1, UPP-2, and UPP-3):

- There are multiple locations with proposed improvements over or within close proximity the BP pipeline including: 8" Water Main (nearly paralleling and crossing the BP pipeline at as shallow as approximately 72"), 8" Valve (as close as approximately 12.5'), and Fire Hydrants with 6" Auxiliary Valves (as close as approximately 12.5').

- Please provide additional horizontal clearance (with exception of the 8" Water Main crossing of the BP pipeline) for these improvements. Please note that for access & maintenance purposes of the BP facilities which promote protection of the pipeline and the public, it is recommended that foreign lines (paralleling or nearly paralleling BP facilities) and structures be 25' from the BP pipeline.

It is not possible to provide the recommended 25' offset from the BP pipeline due to right-of-way limitations and the location of BP's pipeline and other pipelines/utilities/improvements within the ROW. We will field adjust the fire hydrant and valve locations to be as far away as possible during construction, and anticipate being able to maintain separation of at least 12.5' as shown on the plans.

- Please provide profiles of the water main crossings of the BP pipeline; water mains should cross under the BP pipeline with a minimum of 2' of vertical clearance. Please note that if the BP pipeline is not at least 4' deep, then the crossings should be designed assuming the BP pipeline is 4' deep. Lastly, please specify the method used to obtain the BP pipeline depths; potholing may be necessary depending on the profiles/design and the method used to obtain the depths.

The Village has requested that BP provide the depths of their pipeline throughout the project limits on several occasions. If/when that information is made available, we will add it to our plans/profiles. If the depth info is not available during design, the Contractor will be required to pothole the pipeline at all crossings in accordance with BP requirements to verify existing depths. We will also add a note to the plans indicating that the water main should cross under the BP pipeline with a minimum of 2' vertical clearance.

Utility Plan & Profile (Drawings UPP-26 and UPP-27):

- There are multiple locations with proposed improvements over or within close proximity the BP pipeline including: 8" Water Main (nearly paralleling and crossing the BP pipeline at as shallow as approximately 57"), 8" Valve (as close as approximately 16.6'), Connection to existing 8" Water Main (as close as approximately 11.4'), 6" Water Main (crossing the BP pipeline at as shallow as approximately 89"), Fire Hydrants with 6" Auxiliary Valves (as close as approximately 2'), 12" Storm Sewer (as close as approximately 7.2').

- Please provide additional horizontal clearance (with exception of the Water Mains crossings of the BP pipeline) for these improvements especially the fire hydrant with 2' of clearance. Please note that for access & maintenance purposes of the BP facilities which promote protection of the pipeline and the public, it is recommended that foreign lines (paralleling or nearly paralleling BP facilities) and structures be 25' from the BP pipeline.

We will adjust the fire hydrant location at Station 611+55 to provide at least 10' of separation from the BP pipeline. It is not possible to provide the recommended 25' offset from the BP pipeline due

to right-of-way limitations and the location of BP's pipeline and other pipelines/utilities/improvements within the ROW. We will field adjust the other fire hydrants, valve and storm sewer locations to be as far away as possible during construction. Please note that the storm sewer noted will be removed and replaced to the same grade as existing in order to meet IEPA sewer/water separation requirements, so there should not be a conflict.

- Please provide profiles of the water main crossings of the BP pipeline; water mains should cross under the BP pipeline with a minimum of 2' of vertical clearance. Please note that if the BP pipeline is not at least 4' deep, then the crossings should be designed assuming the BP pipeline is 4' deep. Lastly, please specify the method used to obtain the BP pipeline depths; potholing may be necessary depending on the profiles/design and the method used to obtain the depths.

The Village has requested that BP provide the depths of their pipeline throughout the project limits on several occasions. If/when that information is made available, we will add it to our plans/profiles. If the depth info is not available during design, the Contractor will be required to pothole the pipeline at all crossings in accordance with BP requirements to verify existing depths. We will also add a note to the plans indicating that the water main should cross under the BP pipeline with a minimum of 2' vertical clearance.

Please note that EN Engineering is not authorized to provide any final approvals on BP's behalf. EN Engineering confers with BP and provides its recommendation. BP has final approval authority and will either approve or deny the request.

Feel free to contact me if you have any questions.

Thanks,

Alex Martinez
Sr. Design Engineer

EN Engineering
180 N. LaSalle Street, Suite 1400
Chicago, IL 60601

630 225 6087 (Office)
630 353 7777 (Fax)

alejandro.martinez@enengineering.com







From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, April 30, 2019 2:30 PM
To: Joseph Caracci
Subject: FW: White pines - Frontage Rd and Woodland
Attachments: DWC-TN-188[1] 33.pdf; DWC - TN-188[1] 35.pdf; DWC -TN-188[1] 34.pdf

Found that email from Mehul about the service potholes. See thread below from Max and Mehul.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Wednesday, April 10, 2019 1:27 PM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: FW: White pines - Frontage Rd and Woodland

FYI, please see below regarding the potholing information on Church Rd as well as results of the potholing services to date. I found the DWC main drawings from the Church Rd watermain isolation project that we designed a few years ago, which are attached.

We're working with Sensus meter representative to obtain coordinates for the meters. We believe that information is available and should be able to give us a good idea where the meters are located in the homes. That would help assist designing the water services. Stay tuned.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Max Geib
Sent: Wednesday, April 10, 2019 1:16 PM
To: Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: White pines - Frontage Rd and Woodland

Church Rd & Crest Ave – 5'7" to top of 12" water main

Church Rd & Red Oak – 6'0" to top of 12" water main

Church Rd & Forestview – 6'2" to top of water main

DWC is still trying to get me depths. DWC is in the new street and unable to pothole.

16w604 Crest – copper both sides

16w638 Crest – copper both sides
16w666 Crest – copper both sides
16w692 Crest – copper both sides
16w711 Crest – copper both sides

17w013 White Pine Rd – copper on village side
17w025 White Pine Rd – copper on village side
17w026 White Pine Rd – copper on village side
17w035 White Pine Rd – copper on village side
17w036 White Pine Rd – copper on village side
17w047 White Pine Rd – copper on village side
17w048 White Pine Rd – copper on village side
17w057 White Pine Rd – copper on village side
17w058 White Pine Rd – copper on village side
17w066 White Pine Rd – copper on village side
17w067 White Pine Rd – copper on village side
17w071 White Pine Rd – copper on village side
17w082 White Pine Rd – copper on village side
17w091 White Pine Rd – copper on village side
17w092 White Pine Rd – copper on village side
17w105 White Pine Rd – copper on village side
17w106 White Pine Rd – copper on village side
17w115 White Pine Rd – copper on village side
17w116 White Pine Rd – copper on village side
17w141 White Pine Rd – copper on village side
17w151 White Pine Rd – copper on village side

Hope this helps. I don't think we are going to run into lead. If we do my guess would be less than half a dozen and that would be the original homes.

From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Tuesday, April 09, 2019 3:43 PM
To: Max Geib <MGeib@bensenville.il.us>
Cc: Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: White pines - Frontage Rd and Woodland

Max,

Can you give me an update on where we are with potholing all the intersections as well as finding the material type for services? Also, were able to get a hold of Terry (Sensus) to get coordinates for the meters in White Pines? Thanks.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Mehul Patel
Sent: Wednesday, March 27, 2019 8:53 AM
To: Max Geib <MGeib@bensenville.il.us>
Cc: Joseph Caracci <JCaracci@bensenville.il.us>; Ed DeAnda <EDeAnda@bensenville.il.us>
Subject: White pines - Frontage Rd and Woodland

I spoke with Bryan Welch late last week. They have all the potholing information at above location. Please clean up the site and put it on your list of restoration.

I also need a schedule for potholing Church Rd at Red Oak, Crest and Forestview as well as the water services on Red Oak, Crest, and White Pines Rd west of Briar. I know you indicated that JJ/Gino will start potholing by the end of this week. I'd say by April 12 we need this information.

Bryan is also looking for information on where the water services come into the building so we can accurately design proposed water services as we route them from the front of the building. This could be very time consuming depending. As discussed, please find the data depicting addresses and meter serial numbers and provide it to Sarah by the end of this week so she can assign the meter to each address. I got Mike working on trying to find a spatial layer that may correspond to the actual meter location in the building. Even if not 100% accurate, this information could be very useful to design the service locations.

Thanks.

Mehul T. Patel, P.E., CFM

Assistant Director of Public Works



717 E Jefferson Street, Bensenville, Illinois 60106

Phone: 630-594-1196 Fax: 630-594-1148

Email: mpatel@bensenville.il.us

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 1, 2019 4:03 PM
To: Joseph Caracci; Mehul Patel
Subject: FW: TPR 10828 - White Pines Water Main - Comments

FYI to keep you in the loop.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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From: Bryan Welch
Sent: Wednesday, May 01, 2019 4:03 PM
To: Alex Martinez, Chicago Loop <Alejandro.Martinez@enengineering.com>
Cc: Timothy.Fehr@bp.com; Williams, Kellen (SALEM LAND) <Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman <dvroman@enengineering.com>; Brian Tellez <btellez@enengineering.com>
Subject: RE: TPR 10828 - White Pines Water Main - Comments

Hi Alex,

I spoke with the Village of Bensenville and they are not comfortable potholing BP's pipeline based on past experience with this facility and significant uncertainty about its actual location. They also believe it should be BP's responsibility to obtain depth information of their own pipeline during the design effort.

That appears to be a Village/BP issue, but CBBEL will be preparing the construction documents to require the Village's contractor to pothole BP's pipeline (with BP present) during construction and prior to performing work near or across BP's pipeline.

If you'd like to coordinate with the Village directly on this issue, I can facilitate that, please just let me know. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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Sent: Monday, April 29, 2019 10:20 AM

To: Bryan Welch <bwelch@cbbel.com>

Cc: Timothy.Fehr@bp.com; Williams, Kellen (SALEM LAND) <Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman <dvroman@enengineering.com>; Brian Tellez <btellez@enengineering.com>

Subject: RE: TPR 10828 - White Pines Water Main - Comments

Hi Bryan,

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A BP Damage Prevention Specialist (DP) must be present to "watch and protect" during pipeline potholing activity. Please put in a One-Call ticket so that the DP is notified and so that the proper coordination can take place. Please use the attachments and the information below, which include footage along the pipeline and the DP's contact info.

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Pothole #6: At the proposed 8" water main crossing - 660' north of the Woodland Avenue centerline

Pothole #7: At the proposed pavement removal & replacement - 437' north of the Red Oak Avenue centerline (Note: Due to the large span between PH #1 and #2, requested to verify depth in an area with multiple pavement removal & replacement locations.)

DP's Contact Info:

Marcus Jamerson

312-231-2609

marcus.jamerson@bp.com

I will let the DP know that they should be expecting to hear from you soon. Let me know if you have any questions.

Thanks,

Alex Martinez

Sr. Design Engineer

EN Engineering

180 N. LaSalle Street, Suite 1400

Chicago, IL 60601

630 225 6087 (Office)

630 353 7777 (Fax)

alejandro.martinez@enengineering.com

From: Bryan Welch <bwelch@cbbel.com>

Sent: Wednesday, April 24, 2019 2:35 PM

To: Alex Martinez, Chicago Loop <Alejandro.Martinez@enengineering.com>

Cc: Timothy.Fehr@bp.com; Williams, Kellen (SALEM LAND) <Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman <dvroman@enengineering.com>

Subject: FW: TPR 10828 - White Pines Water Main - Comments

Hi Alex,

Thank you for your email related to BP coordination for the White Pines Water Main Replacement project in Bensenville. Please see our responses below in red. If additional discussion or coordination is required, please don't hesitate to reach out. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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From: James Schmieder

Sent: Wednesday, April 24, 2019 1:49 PM

To: Bryan Welch <bwelch@cbbel.com>

Subject: FW: TPR 10828 - White Pines Water Main - Comments

Please see below.

James T. Schmieder

Utility Coordinator

Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600 Rosemont, IL 60018

Phone: (847) 823-0500 Fax: (847) 823-1029

E-Mail: jschmieder@cbbel.com

From: Alex Martinez, Chicago Loop <Alejandro.Martinez@enengineering.com>

Sent: Wednesday, April 24, 2019 1:45 PM

To: James Schmieder <jschmieder@cbbel.com>

Cc: 'Fehr, Timothy (SALEM LAND)' <Timothy.Fehr@bp.com>; 'Williams, Kellen (SALEM LAND)'

<Kellen.Williams@bp.com>; David Oros <doros@enengineering.com>; Diane Vroman

<dvroman@enengineering.com>

Subject: TPR 10828 - White Pines Water Main - Comments

Hi Jim,

I am an engineering consultant for BP Pipelines who is reviewing your plans for the White Pines Water Main Rehabilitation project in Bensenville, IL. Thank you for the pre-final plans you sent over to Kellen Williams. I have reviewed the plans and provided comments below. Please provide revised plans with the following change requests and clarifications.

General comments:

- Please provide a construction schedule and submit a construction equipment list (see attached). Also provide the locations of the proposed equipment crossings over the BP pipeline. Note that no construction equipment will be allowed to cross the BP pipeline without prior approval from BP.

The anticipated construction schedule is for work to start in March 2020 and be completed in November 2020. We do not yet have a contractor and therefore cannot yet provide detailed construction equipment info. However, the equipment is anticipated to be typical equipment for main replacement work with no specialty equipment required.

- Please provide the installation method for the proposed water lines and change the material (ductile iron) of the proposed water lines near the BP pipeline.

The proposed water main is proposed to be ductile iron pipe in accordance with Village standards and be installed via open cut/trenching method.

- Please confirm that there will be no finished grade changes above or within close proximity to the BP pipeline.

No finished grade changes above or within close proximity to the pipeline are anticipated.

Existing Conditions & Removal Plan (Drawings REM-1, REM-2, and REM-17):

- There are multiple locations with proposed pavement patches and pavement removal & replacement over the BP pipeline.
 - Please provide the pavement removal details (i.e. method and depth of removal) and confirm no finished grade changes over the BP pipeline.

Attached are the IDOT standard Class B (concrete) and D (asphalt) pavement patch details. All patch edges will be sawcut. Depth of removal will be to the bottom of the existing pavement, which is expected to be approximately 8" to 12" on average. No finished grade changes above or within close proximity to the pipeline are anticipated.

Existing Conditions & Removal Plan (Drawing REM-17):

- There are multiple locations with proposed adjustment of water lines crossing the BP pipeline along with proposed curb and gutter removal & replacement over the BP pipeline.
 - Please provide the curb & gutter removal details (i.e. method and depth of removal) and confirm no finished grade changes over the BP pipeline.

Attached is the curb and gutter R&R detail. All removal limits will be sawcut. Depth of removal will be to the bottom of the existing curb and gutter, which is expected to be approximately 12" to 18" on average. No finished grade changes above or within close proximity to the pipeline are anticipated.

- Please provide the water line adjustment details for proposed adjustments near the BP pipeline.

Please clarify the question about the water line adjustments. There are no water line adjustments anticipated as part of this project, only a new water main that is proposed to be installed. The existing water main will be retired and abandoned in place. We will add a note to the plans indicating that at pipeline crossings, the water main should cross under the pipeline with a minimum of 2' vertical clearance.

Utility Plan & Profile (Drawings UPP-1, UPP-2, and UPP-3):

- There are multiple locations with proposed improvements over or within close proximity the BP pipeline including: 8" Water Main (nearly paralleling and crossing the BP pipeline at as shallow as approximately 72"), 8" Valve (as close as approximately 12.5'), and Fire Hydrants with 6" Auxiliary Valves (as close as approximately 12.5').
 - Please provide additional horizontal clearance (with exception of the 8" Water Main crossing of the BP pipeline) for these improvements. Please note that for access & maintenance purposes of the BP facilities which promote protection of the pipeline and the public, it is recommended that foreign lines (paralleling or nearly paralleling BP facilities) and structures be 25' from the BP pipeline.

It is not possible to provide the recommended 25' offset from the BP pipeline due to right-of-way limitations and the location of BP's pipeline and other pipelines/utilities/improvements within the ROW. We will field adjust the fire hydrant and valve locations to be as far away as possible during construction, and anticipate being able to maintain separation of at least 12.5' as shown on the plans.

- Please provide profiles of the water main crossings of the BP pipeline; water mains should cross under the BP pipeline with a minimum of 2' of vertical clearance. Please note that if the BP pipeline is not at least 4' deep, then the crossings should be designed assuming the BP pipeline is 4' deep. Lastly, please specify the method used to obtain the BP pipeline depths; potholing may be necessary depending on the profiles/design and the method used to obtain the depths.

The Village has requested that BP provide the depths of their pipeline throughout the project limits on several occasions. If/when that information is made available, we will add it to our plans/profiles. If the depth info is not available during design, the Contractor will be required to pothole the pipeline at all crossings in accordance with BP requirements to verify existing depths. We will also add a note to the plans indicating that the water main should cross under the BP pipeline with a minimum of 2' vertical clearance.

Utility Plan & Profile (Drawings UPP-26 and UPP-27):

- There are multiple locations with proposed improvements over or within close proximity the BP pipeline including: 8" Water Main (nearly paralleling and crossing the BP pipeline at as shallow as approximately 57"), 8" Valve (as close as approximately 16.6'), Connection to existing 8" Water Main (as close as approximately 11.4'), 6" Water Main (crossing the BP pipeline at as shallow as approximately 89"), Fire Hydrants with 6" Auxiliary Valves (as close as approximately 2'), 12" Storm Sewer (as close as approximately 7.2').
 - Please provide additional horizontal clearance (with exception of the Water Mains crossings of the BP pipeline) for these improvements especially the fire hydrant with 2' of clearance. Please note that for access & maintenance purposes of the BP facilities which promote protection of the pipeline and the public, it is recommended that foreign lines (paralleling or nearly paralleling BP facilities) and structures be 25' from the BP pipeline.

We will adjust the fire hydrant location at Station 611+55 to provide at least 10' of separation from the BP pipeline. It is not possible to provide the recommended 25' offset from the BP pipeline due to right-of-way limitations and the location of BP's pipeline and other pipelines/utilities/improvements within the ROW. We will field adjust the other fire hydrants, valve and storm sewer locations to be as far away as possible during construction. Please note that the storm sewer noted will be removed and replaced to the same grade as existing in order to meet IEPA sewer/water separation requirements, so there should not be a conflict.

- Please provide profiles of the water main crossings of the BP pipeline; water mains should cross under the BP pipeline with a minimum of 2' of vertical clearance. Please note that if the BP pipeline is not at least 4' deep, then the crossings should be designed assuming the BP pipeline is 4' deep. Lastly, please specify the method used to obtain the BP pipeline depths; potholing may be necessary depending on the profiles/design and the method used to obtain the depths.

The Village has requested that BP provide the depths of their pipeline throughout the project limits on several occasions. If/when that information is made available, we will add it to our plans/profiles. If the depth info is not available during design, the Contractor will be required to pothole the pipeline at all crossings in accordance with BP requirements to verify existing depths. We will also add a note to the plans indicating that the water main should cross under the BP pipeline with a minimum of 2' vertical clearance.

Please note that EN Engineering is not authorized to provide any final approvals on BP's behalf. EN Engineering confers with BP and provides its recommendation. BP has final approval authority and will either approve or deny the request.

Feel free to contact me if you have any questions.

Thanks,

Alex Martinez
Sr. Design Engineer

EN Engineering

180 N. LaSalle Street, Suite 1400
Chicago, IL 60601

630 225 6087 (Office)
630 353 7777 (Fax)

alejandro.martinez@enengineering.com

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 1, 2019 3:28 PM
To: Mehul Patel
Cc: Joseph Caracci
Subject: White Pines Update

Hi Mehul,

Hope all is well. Just wanted to touch base to update you on a couple of things and to see where a few items are at on your end:

Update:

- I discussed the IEPA planning comments with Joe yesterday. All are minor and we will have a draft comment response letter to you guys this week.
- Processing of the drone survey should be complete this week. Once we have that, we will start on the pre-final plans for the private service improvements.
- Our plan is to submit the IEPA loan application after pre-final plans for both public and private work are complete, so that we can include current costs based on the pre-final engineering.
- Per Joe's request, CBBEL will notify BP that they do not plan to pothole BP's pipeline and if BP does not pothole during the design phase, the Village's contractor will be required to pothole as part of the construction effort.

Checking on Status:

- Has the Village been able to obtain any info from DWC on the depth of their main on Church at our proposed crossings?
- Does the Village plan to pothole any lead services, or based on the potholing done to date, assume that very few or no lead services will be encountered?
- Has the Village made any progress on identifying meter locations of residences required services to be moved from the rear yard to the front yard?

Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 2, 2019 10:10 AM
To: Joseph Caracci; Mehul Patel
Subject: White Pines Planning Report - Draft Comment Response to IEPA
Attachments: White Pines Report_2019_0502_Draft.pdf; CR Nifong Planning Report Comment Response_2019_0502_draft.docx

Hi Joe/Mehul,

Attached is the draft comment response letter to IEPA, along with an updated version of the full Planning Report that incorporates the minor revisions referenced in the letter. Please review and let me know if you have any comments. Once I get your OK, I'll submit to back to Chris Nifong. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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VILLAGE OF BENSENVILLE
WHITE PINES WATER MAIN REPLACEMENT PROJECT

PROJECT PLAN REPORT

IEPA No. L174402

prepared for

VILLAGE OF BENSENVILLE
12 South Center Street
Bensenville, IL 60106

May 2, 2019

(CBBEL PROJECT NO. 12-0433.00005)

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Tab 1

CHAPTER 1

INTRODUCTION

The existing water system of the Village of Bensenville (Village) has provided reliable water service to the Village and surrounding unincorporated neighborhoods for many years. However, due to the age and condition of the water system, there are facilities that need immediate rehabilitation/replacement in order to continue to provide an adequate and reliable water service to the community. This report focuses on replacement of the existing aging water main network within the unincorporated White Pines Area, which is served by the Village's water distribution system. In order to implement the much-needed water system improvements, the Village is seeking financial assistance from the Illinois Environmental Protection Agency's (IEPA) Public Water Supply Loan Program (PWSLP).

Project Area

The Village of Bensenville is located approximately 17 miles northwest of the Chicago Loop and immediately west of the Chicago O'Hare International Airport. The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville. Exhibit 1 shows a vicinity map of the Village of Bensenville. Exhibit 2 illustrates the existing water system within the White Pines Area.

Need for the Project

From available information, it is estimated that significant portions of the White Pines Area water system have been in service for well over 70 years. Although this portion of the water distribution system has provided an adequate level of service to the community over the years, it has deteriorated to the point of reaching the end of its useful service life. The water mains throughout the area experience extensive water main breaks, including 150+ breaks since 1986 (see Exhibit 3). The majority of the existing mains are located within the rear yards of residential homes, which makes access to repairs difficult and costly. Additionally, fire flow issues have been experienced at various locations within the area due to the age of the mains and their being undersized (primarily 6"-diameter). In fact, three homes in the subdivision have burned down in the last three years due in large part to insufficient fire flow availability. A newspaper article from the most recent fire, which occurred in June 2018, is included in Appendix E.

The water mains are being recommended for replacement due to their present state of deterioration, lack of accessibility for maintenance, high maintenance costs, inability to provide proper fire protection and being undersized based on current standards. The White Pines Water Main Replacement project (Project) is needed to:

- Relocate the water mains into public rights-of-way to provide better maintenance access
- Reduce the number of water main breaks and associated repair costs
- Reduce the amount of water loss due to leakage and breaks that result in lost revenues as well as additional pumping costs
- Abandon and replace lead services with copper services
- Provide adequate fire flows throughout the area
- Improve water pressure within the system
- Ensure an adequate, safe and reliable source of water to residents for years to come

Study Purpose and Scope

As previously outlined, there is an urgent need for this water main replacement project. After considering their options to finance the project, the Village has decided to apply for financial assistance from the IEPA PWSLP. The Safe Drinking Water Act (SDWA) Amendments of 1996 (Pub.L.104-182) authorize a Public Water Supply Loan Program (PWSLP) to assist public water systems to finance costs of infrastructure needed to achieve or maintain compliance with SDWA requirements and to protect public health objectives of the Act. Section 1452 authorizes the Administrator of the U.S. Environmental Protection Agency (USEPA) to award capitalization grants to states, which in turn can provide low cost loans and other types of assistance to eligible systems under certain conditions established for the program. The IEPA is the state agency that administers loans through the PWSLP.

One of the key elements of the Loan Application is the submittal of a Project Plan by the loan applicant for approval by the IEPA. The project plan is prepared in accordance with the planning requirements developed for the federal grants program. This report has been prepared to meet these planning requirements for eligibility to receive financial assistance through the IEPA PWSLP. A copy of the Funding Nomination Form as submitted to the IEPA in January 2019 is provided in Appendix A.

The scope of this project plan addresses the following major items:

- Identify the conditions and needs of the project and its service area.
- Evaluate feasible alternatives to address the needs of the project.
- Recommend a cost-effective project.
- Identify the environmental and financial impacts that might result from the construction of the recommended project.
- Develop an implementation schedule for construction of the recommended project.

CHAPTER 2

EXISTING AND FUTURE CONDITIONS

An understanding of the existing conditions of the area to be served and the existing water distribution facilities that service the area is essential in the proper planning of the project improvements. This chapter briefly describes the physical characteristics of the service area (Village of Bensenville and the White Pines Area) in terms of land use and population, and the existing water system, including the mains to be replaced.

Existing Land Use and Population – Village of Bensenville

The Village of Bensenville is located within the Chicago Metropolitan Area approximately 17 miles northwest of the Chicago Loop and directly west of the Chicago O'Hare International Airport as shown on Exhibit 1. The Village is bordered by Elk Grove Village on the north, Wood Dale on the West, Elmhurst on the South, Schiller Park to the northeast, and Franklin Park to the southeast.

In general, the area is essentially fully developed with residential dwellings and commercial and industrial enterprises; the northern third of the community is nearly all industrial in use. The Canadian Pacific Railroad has a rail line that bisects the community in an east-west direction and this same set of tracks is shared with METRA for commuter rail service. Three non-navigable waterways flow through the community from west to east: Tributaries to Willow Creek in the north, Silver Creek in the center, and Tributaries to the Addison Creek in the south. The routing of the planned Elgin O'Hare Expressway will cut through the northern third of the Village.

The current population of the area is estimated at 18,500 and has decreased in recent years due to the expansion of O'Hare Airport during its modernization program. Future population growth is anticipated to be limited as the area is essentially fully developed.

Existing Land Use and Population – White Pines Area

The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville as shown on Exhibit 1. The boundaries of the area are Illinois Route 83 on the west, Church Road on the east, Third Avenue on the north, and Forest View Road on the south.

The area is fully developed with residential dwellings. Tributaries to Addison Creek, a non-navigable waterway, flow through the area from the west to east near the north and south boundaries of the area.

The current population of the area is estimated at 750. Future population growth is anticipated to be very limited as the area is essentially fully developed.

Description of the Existing Water System – Bensenville

The Village of Bensenville currently receives potable Lake Michigan water from the DuPage Water Commission (DWC), which is supplied by the City of Chicago. The Village has one centralized reception point from the DWC at their reservoir facility located along Church Road north of Main Street. Due to the close proximity to the DWC main pumping facility and reservoir in Berkeley, the Village does not need to separately treat this source of water supply.

Existing Water System

The layout of the existing Village water system is shown on Exhibit 4. The solitary water supply to the system is provided by the connection to DWC Transmission Main which traverses along Church Road until it reaches the Canadian Pacific Railroad right-of-way between Main and Green Streets, and it turns westward to serve additional customers. The Village also maintains two deep wells as a source of emergency supply as well as having emergency interconnections with surrounding communities.

The water distribution system includes approximately 78 miles of water main in sizes ranging from 6 to 12 inches in diameter as summarized in Table 2.1.

Table 2.1: Water Distribution System

Watermain Size in Inches	Length In Feet
6	134,558
8	90,728
10	8,440
12	178,237
Total	411,963

The water system includes four existing storage facilities, two elevated water tanks, one ground storage reservoir, and one underground storage reservoir. The storage capacity of each of these facilities is provided in Table 2.2. The total system storage capacity is approximately 3.65 million gallons (MG). In the event that additional storage is needed in the short term, there is currently a surplus of storage capacity available within the DWC system and in the surrounding communities that could be obtained through existing interconnection of water systems.

Table 2.2: Water Storage Facilities

Water Storage Facility	Location
500,000 gallon Elevated Water Tank	Church Road, north of Main Street
500,000 gallon Elevated Water Tank	Belmont Avenue, West of York Road
1.9M gallon Underground Storage Reservoir	Church Road, north of Main Street
750,000 gallon Ground Storage Reservoir	Foster Avenue, west of Thomas Drive

Water Usage by Customer Base

The Village serves its current population of about 18,500 as well as an unincorporated population of 800. The service area is comprised of the area within its corporate boundaries and some adjoining unincorporated properties. There are approximately 3,928 residential water users, 434 commercial water users and 776 industrial water users within the customer base of the Village of Bensenville. In 2013, there were approximately 540 MG of water billed by the DWC. Average daily demand over the last four years averaged an estimated 1.48 MGD with peak daily demand estimated at 2.5 MGD. The industrial water users account for approximately 19.75% of the water demand, with the commercial usage representing about 13.0% of water demand. The Residential consumers represent about 64.0% of water demand with Municipal and Construction accounting for the remaining 3.25% of water demand.

Existing Water and Sewer Rate Structure

The current water and sewer rates for customers within the Village Corporate limits, as established by Ordinance 68-2017 and effective January 1, 2018, are summarized below. A copy of the Ordinance is provided in Appendix C.

Table 2.3: Existing Incorporated User Rate Structure

Charge	Rate	Charge	Rate
Water per 1000 Gallons		Sewer per 1000 Gallons	
- First 10000 Gal per mo	\$ 10.00	- First 10000 Gal per mo	\$ 8.49
- Over 10000 Gal per mo	\$ 12.00	- Over 10000 Gal per mo	\$ 10.00
		- Non-Metered (fixed fee)	\$ 76.41
Fixed Service Charge by Meter Size			
5/8" or 3/4"	\$ 10.00	1.0"	\$ 30.00
1.5"	\$ 60.00	2.0"	\$ 100.00
3.0"	\$ 180.00	4.0"	\$ 300.00
6.0"	\$ 600.00		
Senior Discount	(\$ 1.54)		
Industrial Pretreatment per 1000 Gallons			
- First 1000 Gal per mo	\$ 8.32		
- Over 1000 Gal per mo	\$ 1.28		

The current water and sewer rates for customers outside of the Village Corporate limits, as established by Ordinance 68-2017 and effective January 1, 2018, are summarized below. These rates are calculated at 150% of the incorporated rates.

Table 2.4: Existing Unincorporated User Rate Structure

Charge	Rate	Charge	Rate
Water per 1000 Gallons		Sewer per 1000 Gallons	
- First 10000 Gal per mo	\$ 15.00	- First 10000 Gal per mo	\$ 12.47
- Over 10000 Gal per mo	\$ 18.00	- Over 10000 Gal per mo	\$ 15.00
		- Non-Metered (fixed fee)	\$114.62
Fixed Service Charge by Meter Size			
5/8" or 3/4"	\$ 15.00	1.0"	\$ 45.00
1.5"	\$ 90.00	2.0"	\$ 150.00
3.0"	\$ 270.00	4.0"	\$ 450.00
6.0"	\$ 900.00		
Senior Discount	\$ 0.00		
Industrial Pretreatment per 1000 Gallons			
- First 1000 Gal per mo	\$ 12.48		
- Over 1000 Gal per mo	\$ 1.92		

Description of the Existing Water Main System – White Pines

The area known as the White Pines Area was developed over 70 years ago as a residential golf development connected with the adjacent White Pines Golf Club (now under public ownership). The layout of the existing water system is shown on Exhibit 2. All existing water mains are 6" in diameter with the exception of 8"-diameter mains along Third Avenue and Briar Lane and a 12"-diameter main on White Pines Road. Many of the mains from the original development were constructed within public utility easement in rear yards. The mains have deteriorated over time, provide inadequate fire flow, require frequent and costly maintenance and are undersized by current standards. Due to repeated failures, the Village began collecting a surcharge from its unincorporated water users in 1998-1999 (discontinued in January 2015) to pay for the maintenance and replacement of the deteriorating mains. The surcharge has not been able to keep up with the maintenance requirements of the deteriorating system, so the Village has been required to focus their efforts on emergency maintenance within the White Pines Area, rather than preventative maintenance and replacement.

Although the age and condition of the remaining water mains is a concern and repairs are being completed over time when budget and financing allows, there is no known violation of federal or State public water supply regulations with regard to supply, treatment and distribution of potable water. Furthermore, there are no violations expected in the foreseeable future.

Existing Water Usage – White Pines Area

The Village's water customer base located within the White Pines Area consists of 267 users. An additional 13 parcels in the White Pines Area do not have a record of water service from the public main and are assumed to be on wells. These 267 users were billed for a total of 12.75 million gallons of water in 2017. Based on this information, the after usage for customers within the White Pines Area is just under 4,000 gallons per month.

Below is a summary of a current water and sewer bill assuming a typical consumption of 4,000 gallons per month.

Table 2.5: Existing Average Usage and Monthly Bill

	Unincorporated User Rate (Per 1000 Gallons)	Average Bill (4000 Gal per Month)
Water	\$ 15.00	\$60.00
Sewer	\$ 12.74	\$50.96
5 Year Fee	-	-
Fixed Fee	\$15.00	\$15.00
Total		\$125.96

Future Conditions – Bensenville

Future population growth in the Village is anticipated to be very limited, as the area is essentially fully developed. Therefore, future population growth over the 20-year planning period is anticipated to remain near its current level, around 18,500.

There is also no significant change expected in the mix of the customer base. The Industrial and Commercial customers are expected to account for about 33% of the water demand, with the Residential customers accounting for 64% of the water demand. The remaining 3% is anticipated for construction and municipal projects. The projected water usage is expected to remain fairly constant as well around the current average of 1.5 MGD.

Future Conditions – White Pines Area

Future population growth within the White Pines Area is anticipated to be very limited as the area is essentially fully developed. Therefore, future population growth over the 20-year planning period is anticipated to remain near its current level, around 750.

Also, there is no significant change expected in the mix of the customer base with residential customers making up all of the customer base and demand. The projected water usage is expected to remain fairly constant but increase slightly as existing lots may be redeveloped with newer, larger homes.

CHAPTER 3

PROPOSED PROJECT

The proposed project includes the abandonment of the existing water mains and the installation of approximately 17,000 feet of 8"-diameter water main, all located within public rights-of-way, as depicted in Exhibit 5. Due to the presence of existing mains in the rear yards, this project would include replacing existing services in rear yards with new copper services connected to the new mains in front yards, and a new curb stop at the public right-of-way line. All properties with rear yard water services would receive new copper water services and curb boxes that connect to the new mains constructed in the public right-of-way. Additionally, the Village has made a commitment to identify and abandon all existing lead water services and replace with new copper services between the public main and each home, including work on private property, as part of this project.

The overall scope of the water main replacement project includes the following items:

- Abandonment of the existing water main
- Abandonment of lead services and replacement with copper services
- Installation of new 8" water main
- Installation of new water valves and vaults
- Installation of new fire hydrants
- Installation of new copper water service lines and curb boxes to the limit of the public rights-of-way
- Relocation of private water services from existing rear yard mains to proposed b-boxes in the public rights-of-way
- All other items necessary to complete the work including water main fittings, steel casing pipe, trench backfill, sewer work in conflict with the new water main installation, and all restoration of parkways and pavement.

The project will be designed and constructed in accordance with 35 Ill. Adm. Code 651 through 654 and all other applicable laws and regulations and would restore the viability of the entire White Pines Area water system and provide a long-term, cost-effective and minimally-disruptive solution to maintaining a safe, reliable water source for the White Pines Area for decades to come.

The following sections of this chapter present a more detailed description of the proposed project, the environmental impacts of the project, and the financial impacts of the project, including capital costs and financing options.

Environmental Impacts

Primary Impacts

Long term impacts of the proposed project are all expected to be positive. Implementation of the project will ensure a safe, adequate and reliable source of water supply for the residents and improve the overall operation and reliability of the Village's water system.

Materials, man-hours, energy, etc. will be committed irretrievably to the construction of this project. However, no new purchase of land will be required, nor will any irreversible changes to the environment occur.

Anticipated short term impacts are all associated with project construction. These impacts include noise and dust which may have the potential to temporarily disturb residents and wildlife immediately within the construction area. There will be traffic interference during construction due to pipe installation within the street and construction staging. Construction projects will temporarily result in unsightly conditions, common to most construction projects, until restoration of affected areas is completed.

The following sections address other key environmental issues of concern.

Impacts to Rare/Endangered Plants and Animals: There are no endangered or threatened species within the area of the proposed project. The "EcoCAT" Report printout and additional correspondence from the Illinois Department of Natural Resources is included in Appendix B.

Disturbance to Historical, Archeological and Cultural Resources: The project site lies within an extensively developed residential area. The State Historical Preservation Office was contacted to ensure that no historical, archeological or cultural resources would be affected by the proposed plan (see Appendix B). Their response indicated that there are no historic properties affected by the proposed project.

Construction Near Wetlands: There are no wetlands within the project area. The "EcoCAT" Report printout from and additional correspondence from the IDNR Division of Resources Review is provided in Appendix B.

Impacts to Floodplains: No impacts to floodplains are anticipated.

Impacts to Air and Water Quality: The proposed project will not have any long-term adverse effects on air quality. There will be some temporary negative effects on the air quality during construction, when dust and fossil fuel exhaust is produced from construction activities.

Impacts to Recreational Areas or Prime Agricultural Land: The proposed improvements do not involve the development of areas designated for agricultural, open space or recreational uses.

A copy of the signed IEPA Loan Application Environmental Checklist has been provided in Appendix B.

Secondary Impacts

There will be no significant impacts on population growth or type of development within the surrounding area due to the proposed project. The project consists of the replacement of an existing facility. As previously discussed, the Village and the White Pines Area are basically fully developed and there has been no significant growth in population in recent years.

Steps to Minimize Negative Impacts

Negative impacts of the proposed construction include noise, dust, traffic disruption and temporary loss of access to local roads – all temporary impacts resulting from construction activities. Careful design and construction techniques will be used to minimize these unavoidable negative impacts, such as the directional boring of water mains and augering/drilling of the new water service lines.

In order to provide proper erosion control, the construction specifications will require that the contractor submit a proposed plan for excavation and erosion control methods for review by the engineer.

Construction noise originates primarily from engine and equipment noise. Engine noise is most effectively controlled by exhaust mufflers and to a lesser extent by intake silencers and engine enclosures. The construction specifications will require that all construction equipment engines be provided with adequate mufflers. Construction noise is obviously most objectionable between 7:00pm through 7:00am and all day on weekends. The construction specifications will require that construction activities be restricted to between 7:00am to 7:00pm each Monday through Friday, unless otherwise allowed by the Village.

Financial Impact

This section presents a preliminary assessment of the financial impact of the proposed project on the current user charges in the Village and the residents of the White Pines Area. The financial impact of the debt retirement cost of the proposed project will depend on the type of financing available and the terms that can be obtained.

Estimated Capital Costs

The detailed opinion of probable construction cost is provided in Exhibit 6 and summarized in Table 3.1. The total cost of the proposed project for the White Pines Water Main Replacement project is estimated at \$7,870,000, which includes an estimated construction cost of \$6,200,000. The estimated construction costs were developed based on recent bid prices for similar work within the Village of

Bensenville and surrounding communities. The total costs include allowances for engineering design, 8.0% for construction observation services and \$100,000 for legal fees. The cost estimate also include a loan contingency, as required by IEPA, in the amount of 10% of the estimated construction cost.

Through prior coordination with IEPA, the Village has confirmed that water service replacement work, as needed to connect to public mains to the roadway right-of-way in the front of each home and as needed to abandon and replace any lead services encountered, will be PWSLP-eligible costs. Therefore, it is anticipated that all construction costs included in the project cost estimate will be loan eligible.

"Soft" costs related to easement acquisition, such as title reports, plats and legals, negotiations, etc., have been estimated by the Village and included in the "Legal Fees" section of the estimate. Costs related to any actual easement purchase are not loan eligible. For this project, the Village anticipates all necessary temporary easements being donated to the Village, as each property owner will be allowed to choose whether to allow the Village's contractor to perform the requisite work on their property or hire their own contractor to complete the work at their cost. Additional discussion on this issue can be found in the Project Implementation Strategy section at the end of this report.

Table 3.1: Estimated Capital Costs of Proposed Project

Item	Estimated Cost
Construction	\$6,200,000
Design Engineering	\$450,000
Construction Engineering	\$500,000
Legal Fees	\$100,000
Loan Contingency (10% of construction)	\$620,000
Total Estimated Project Cost	\$7,870,000

The Unincorporated Area Fund Balance held by the Village will be used to offset a portion of the project costs.

Table 3.2: Estimated Project Cost to be Financed

Item	Estimated Cost
Total Estimated Project Cost	\$7,870,000
Unincorporated Area Fund Balance	\$900,000
Estimated Project Cost to be Financed	\$6,970,000

Operation, Maintenance and Replacement (O, M & R) Costs

The staff of the Public Works Department of the Village of Bensenville is responsible for the routine O, M & R activities that are required for the normal operation of the

water and sewer utilities. In general, properly functioning water systems require minimal routine maintenance work that is generally limited to periodically exercising water valves and flushing fire hydrants. A new section of water main that is properly installed is not anticipated to have any significant maintenance issues over the first 20 years of its service life. Therefore, O, M & R costs for this Project are expected to be negligible over the 20-year planning period and are assumed to be included as part of the expenses of maintaining the normal staff positions and therefore excluded from the estimates provided herein.

The Certificate Regarding O&M is included in Appendix A.

Project Financing

There are currently two options for financing this project as follows:

- Loan or Bond obtained by the Village at a financial institution at market interest rates.
- Loan obtained through the IEPA Public Water Supply Loan Program.

The Village has submitted a Funding Nomination Form for loan assistance to the IEPA (Appendix A) to finance the cost of the White Pines Water Main Replacement project. Under the terms of the loan, the debt would be serviced over a 20-year period. The loan rate for loan agreements approved between July 1, 2018 and June 30, 2019 is 1.84%. For the purposes of this report, the PWSLP interest rate is assumed to be 2.21%.

Without the PWSLP loan, the Village would need to obtain a loan or general obligation bond through a financial institution at the current market interest rates. The anticipated range of annual interest rates for the Village is approximately between 4% and 5%. For the analysis presented herein, an annual interest rate of 5% per year was assumed as a likely rate to be obtained by the Village.

Table 3.3 presents the estimated annual payments to be borne by the Village under both loan scenarios for a 20-year repayment term.

Table 3.3: Estimated Annual Debt Service for Financing Options

	Loan or GO Bond	PWSLP Loan
Loan Amount	\$6,970,000	
Loan Rate	5.00%	2.21%
Loan Term	20 years	20 years
Annual Debt Service	\$559,291	\$434,950

With a 20-year repayment period the annual payments would be reduced by approximately 22% from \$559,291 to \$434,950 if an IEPA PWSLP loan is obtained to finance the project.

Sources for Servicing Loan Debt

The debt service for the IEPA loan will be funded through the adoption of new incorporated and unincorporated user water and sewer rate structures that are specific to the White Pines Area, since the proposed infrastructure improvements will only benefit that defined area. These new White Pines Area rate structures would create the two primary funding sources for the project. Each resident of the White Pines Area will be allowed to select the rate structure they desire, which is tied to whether they agree to annex (or pre-annex, as the case may be) into the Village. Any shortfall in debt services revenues will be funded by the Village with the current water/sewer fund revenue.

White Pines Incorporated User Rates (Annexation/Pre-Annexation)

If the property owner elects to annex/pre-annex into the Village, they will pay the standard Village incorporated water and sewer user rates, plus a \$50 fee per month for first 5 years. The \$50 per month surcharge ("Five Year Fee") and the additional property tax dollars to be received by the Village from the newly annexed parcels will be used towards the IEPA loan installments. The Five Year Fee shall be reduced to \$25 per month for senior citizens (age 65 and over).

White Pines Unincorporated User Rates (Remain Unincorporated)

If the property owner elects to remain unincorporated, the White Pines Unincorporated user rates will be set at 275% of the Village incorporated user rates upon approval of the IEPA loan.

Table 3.4: Proposed User Rate Structures – White Pines Area

White Pines Incorporated User Rates	Per 1000 Gal	Monthly Charge
Water	\$10.00	
Sewer	\$8.49	
Fixed Debt Service Charge (Flat Fee)		\$10.00
White Pines Debt Service*		\$50.00
White Pines Unincorporated User Rates	Per 1000 Gal	Monthly Charge
Water	\$27.50	
Sewer	\$23.35	
Fixed Debt Service Charge (Flat Fee)		\$27.50

* Charge reduced to \$25 for Senior Citizens. Charge to be eliminated after 60 months.

Debt Service Analysis for Most Conservative Scenario

From the perspective of generating revenue to service the IEPA loan debt, the most conservative (i.e. worst case) scenario would be that all residents choose to incorporate and pay White Pines Incorporated User Rates. Therefore, this scenario was used to analyze the ability of the proposed funding sources to pay the debt service for the proposed loan.

Table 3.5: Debt Service Analysis – 100% Annexation/Pre-Annexation

Property Tax Revenues	
Total Net Equalized Assessed Value	\$21,707,570
Current Village Tax Rate	0.9572%
Total New Property Tax Revenues	\$207,784
Debt Service Charge Revenues	
Standard (\$50/mo * 12 mo * 187 homes)	\$112,200
Seniors (\$25/mo * 12 mo * 80 homes)	\$24,000
Total Debt Service Charge Revenues	\$136,200
Total Revenues for Debt Service	\$343,984
Annual Loan Debt Service (Table 3.4)	\$434,950
Debit Service Shortfall	(\$90,966)

The anticipated Year 1 debt service shortfall of \$90,966 will be paid from the current water/sewer fund. It is anticipated that this shortfall will decrease in subsequent years as property tax revenues increase. Also, this “100% incorporated” scenario represents the most conservative possible scenarios. Regardless of actual revenues, the Village will be using its own revenues from the water/sewer fund to pay for any shortfall between the White Pines Area debt service revenues and the required IEPA loan debt service payments for the duration of the 20-year loan term.

Impact on Water and Sewer Charges

A comparison of the impact of collection of the proposed debt service revenues on the average monthly bill of a resident of the White Pines Area, based on the rate structure they select, is provided below.

Residents electing the Incorporated (Annexation/Pre-Annexation) rate structure will see a modest monthly bill increase of 6.4% over their current bill (Village unincorporated user rate). Once the Five Year Fee will be eliminated after 60 installments, the monthly bill would be reduced to that of all other Village incorporated users.

Residents electing the Unincorporated (Remain Unincorporated) rate structure will see a monthly bill increase of 183.3% over their current bill (Village unincorporated user rate).

Table 3.6: Average Monthly Bill Comparison

Average Monthly Bill (4,000 gallons per month)			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Water	\$60.00	\$40.00	\$110.00
Sewer	\$50.96	\$33.97	\$93.43
5 Year Fee*	-	\$50.00**	-
Fixed Fee	\$15.00	\$10.00	\$27.50
Total	\$125.96	\$133.97**	\$230.93

* Assumes Non-Senior Citizen Household ** Decreases by \$50 after Five Year Fee expires.

Impact on Property Taxes

A comparison of the impact of the proposed debt service approaches on the average annual property tax bill of a resident of the White Pines Area, based on the rate structure they select, is provided below. This calculation assumes an average assessed value of \$76,977 (equivalent to a \$230,931 home value).

Residents electing the Incorporated (Annexation/Pre-Annexation) rate structure will begin paying property taxes to the Village of Bensenville, as an incorporated parcel owner. Residents electing the Unincorporated (Remain Unincorporated) rate structure will continue not having a Village property tax responsibility.

Table 3.7: Average Annual Property Tax Comparison

Average Annual Property Taxes Paid to Village			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Property Taxes	\$0.00	\$736.82	\$0.00
Total	\$0.00	\$736.82	\$0.00

A summary of the impacts of changes to the user charges and property taxes for an average property owner in the White Pines Areas is summarized below:

Table 3.8: Summary of Average Monthly Costs

Summary of Monthly Costs			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Water and Sewer Fees*	\$125.96	\$133.97**	\$230.93
Property Taxes	\$0.00	\$61.40	\$0.00
Total	\$125.96	\$195.37**	\$230.93

* Assumes Non-Senior Citizen Household ** Decreases by \$50 after Five Year Fee expires.

Project Implementation

Project Implementation Schedule

The anticipated project schedule for implementation of the proposed project is outlined in Table 3.9. The schedule is governed by the IEPA PWSLP regulatory requirements and assumes that the proposed project presented in this Planning Report will be approved by the IEPA by July 2019. Plans will be submitted to IEPA for construction permit review and issuance in April 2019.

Table 3.9: Anticipated Project Implementation Schedule

Project Activity	Schedule
Submit Planning Report to IEPA	February 2019
Submit Plans & Specifications to the IEPA	April 2019
Submit Financial Information to IEPA	April 2019
IEPA Planning Approval	July 2019
Award Contract	January 2020
End Construction	November 2021

The local paper serving the Village of Bensenville is:

Daily Herald
155 E. Algonquin Road
Arlington Heights, IL 60005

Project Implementation Strategy

This project will involve construction on both public and private property. The work on any particular private property will be limited to abandoning lead services and constructing a new copper water service between the house and public right-of-way (for homes with existing lead or rear yard services). The Village plans to award the construction of both public and private work as part of a single construction contract.

The Village continues to work to obtain temporary construction easements for all private water service work. For parcels where temporary construction easements are granted, work on these parcels will be included in the Village's project and associated costs included in the IEPA loan.

For parcels where temporary construction easements are not granted, work on these parcels will not be included in the Village's project, although the public improvements in the public right-of-way adjacent to the parcel will be performed. The Village will provide dissenting parcel owners with a reasonable timeframe by which they must facilitate the construction of a new private water service on their property and legally connect it to the new water service box that is installed by the Village's project. The cost of this work will be borne by the individual property owner and not included in the IEPA loan, and a permit will be required from the Village in order to perform the

work. The timeframe that is anticipated to be allowed by the Village to facilitate private property work by others is 3 months.

Due to the reasonable expectation that some property owners will not grant temporary construction easements and therefore, a portion of the necessary private water service work will take place after the construction of the Village's project, it will be important to construct the new water system such that it does not impact the ability of the existing water system to continue operating, until such date that all properties are connected to the new system and the existing water system can be disconnected and abandoned.

Public Outreach

The Village acknowledges the sensitive nature of this project and has taken a proactive approach to gathering public input and disseminating information to the property owners impacted by this project. Below is a list of some of the events, meetings and correspondences that have been extended to property owners.

- The Village President, Village Manager and Village Finance Director held a White Pines Neighborhood Meeting on July 24, 2018 to present the latest plan to the residents. A video of this Meeting can be found at <http://www.bensenville.il.us/980/WPVMR-Neighborhood-Meeting-Video>. Representatives from 92 of the households within White Pines attended the Meeting (a list of those in attendance is included in Appendix E). Each household in attendance was given a packet that was specific to each resident's past tax bills and past water usage and illustrated the anticipated impacts of the proposed plan on their finances.
- The Daily Herald published an article after the July 2018 Public Meeting was held. This article is included in Appendix E.
- The Village President, Village Manager, and Village Staff have conducted individual visits to each home within the White Pines subdivision to present, discuss and educate residents of the proposed plan. The team handed out the packets of information to the residents if they had not already received the packet at the Public Meeting.
- The Village Manager offered all residents an invitation for one-on-one meetings with staff to individually review and discuss their packets. These meetings could take place after hours to accommodate as many residents as possible. To date, 35 residents have met with the Village Manager to discuss their packets.
- In support of full disclosure and transparency, the Village continues to host a public website portal specifically for the White Pines projects so that all important documents can be shared. This site includes presentation materials, FAQs, interactive maps, Village Board Meeting minutes and links

to important documents and agreements.
<http://www.bensenville.il.us/973/White-Pines-Water-Main-Replacement-Portal>

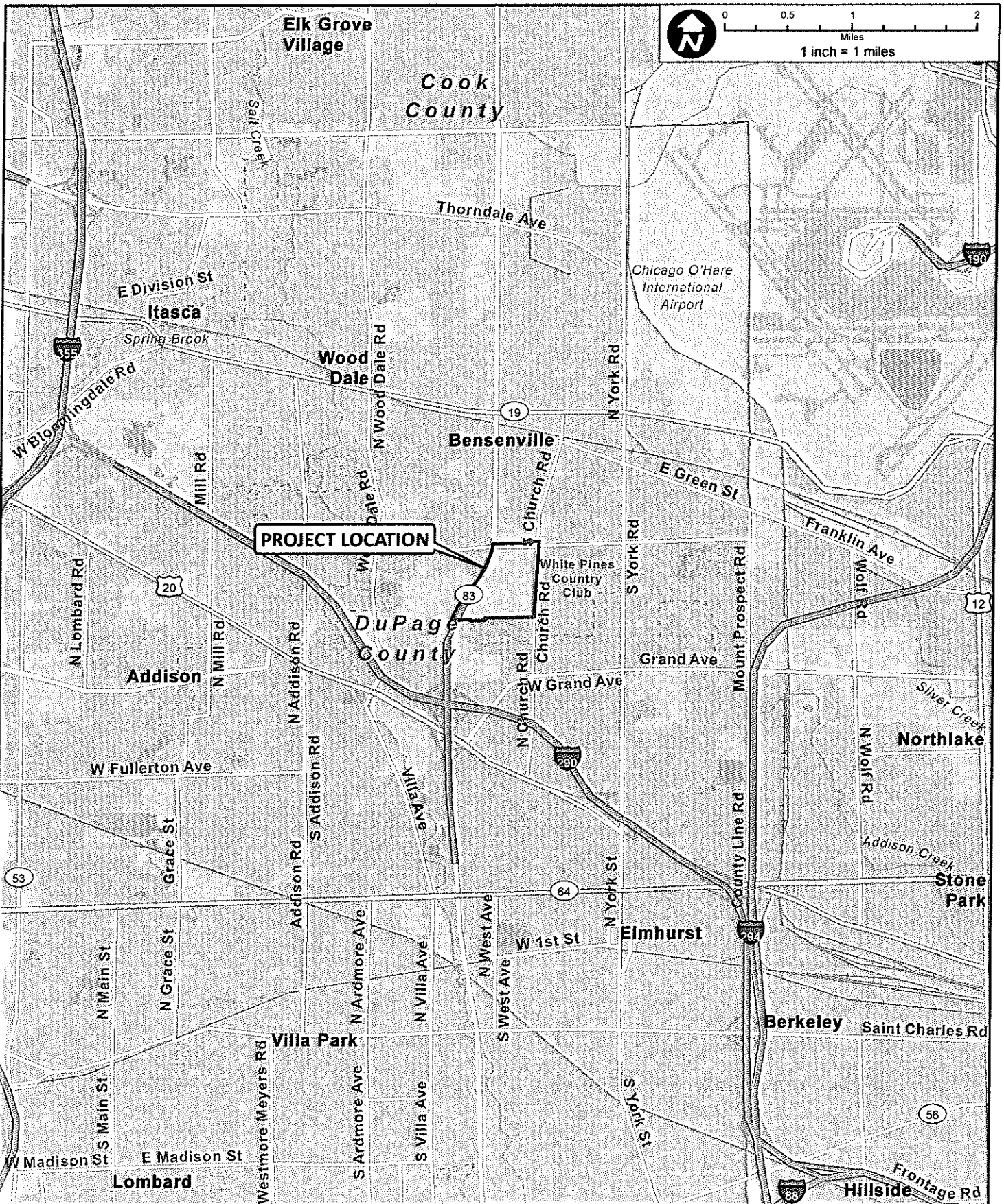
- The Village has received support from the community through an ad hoc resident group called the White Pines Community Alliance. This group of individuals was formed by residents who object to the views of the White Pines Civic Association, which has been a vocal opponent to the proposed project. It should be noted that neither the Alliance nor Association is a recognized corporate group, homeowners Association or legally recognized group.
- To date, 29 residents have signed annexation agreements (seven of which are currently contiguous to the Village) and are waiting formal Village Board approval.

The Village understands the importance of a strong Public Outreach effort for a project of this scope and magnitude that will directly affect the lives of so many residents. They also understand that unanimous concurrence with the scope, impacts and costs of this project is extremely unlikely, and believe that the historical opposition from residents originated from a vocal minority of the subdivision. During the individual meetings with residents, a common theme stated to the Village was they have heard so many different versions of the plan from neighbors, that they never really understood the full plan. Although the Village did not take a formal survey, they do believe that a majority of residents agree that improvements are necessary, now understand their options and are supportive of the proposed plan. Residents have also expressed satisfaction in the fact that they are being provided options that involve annexation or remaining unincorporated and understand the financing behind the plan.

The Village is committed to the health and safety of their water customers as well as the reliability of our water system, which is further demonstrated by their commitment to abandon and replace all lead services in the project area with copper services, including portions on private property. They are also committed to developing and maintaining a strong Public Outreach approach throughout the duration of the design and construction of the project.

Tab 2

EXHIBITS



Path: N:\BENSENVILLE\120433\GIS\Exhibits\Vicinity Map.mxd

CLIENT:



**VILLAGE OF
BENSENVILLE**

TITLE:

**WHITE PINES AREA
VICINITY MAP**

PROJ. NO. 120433

DATE: 12-11-14

SHEET 1 OF 1

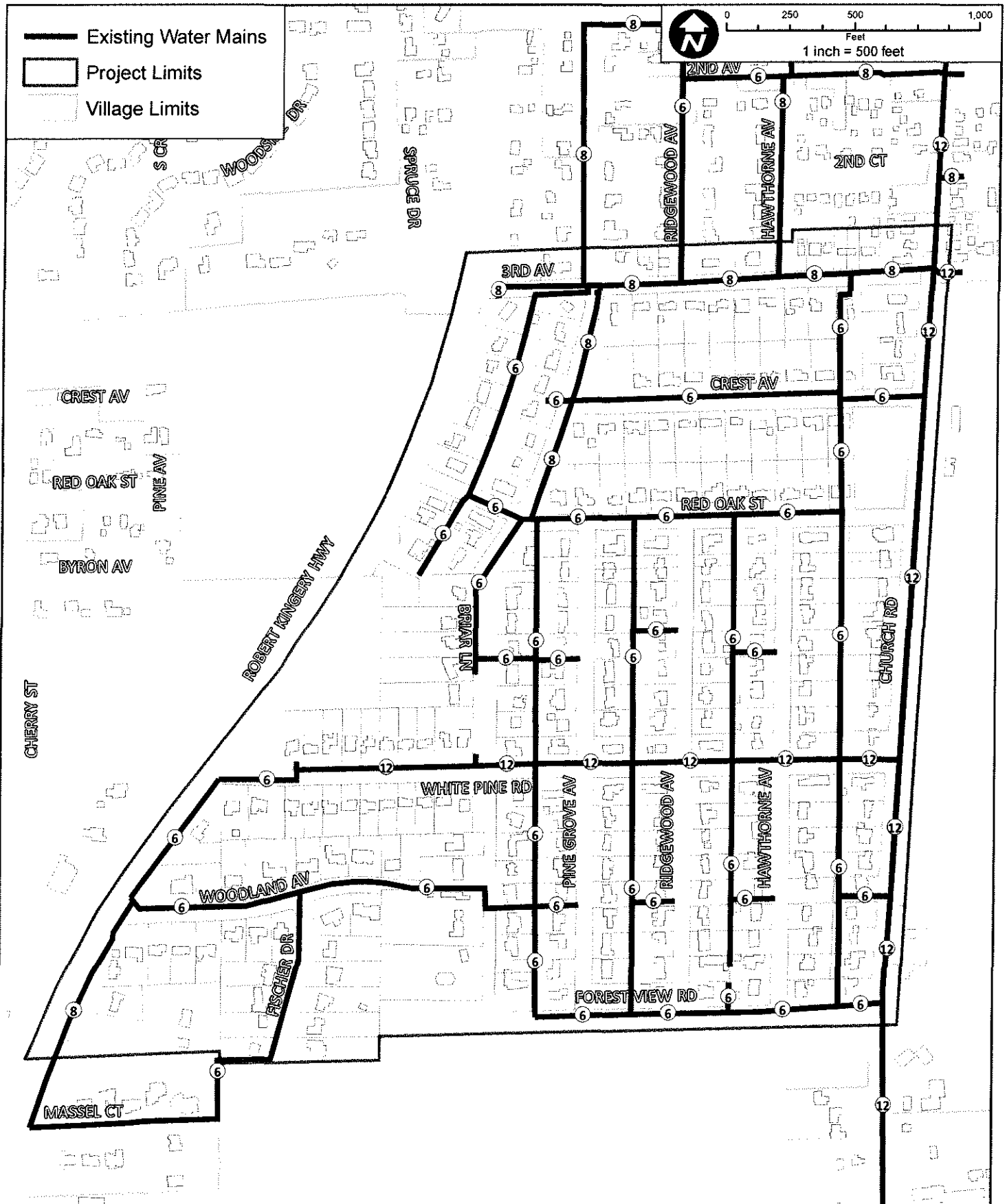
DRAWING NO.



CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN.		SCALE:	1:63360
DWN.		AUTHOR:	DWALTERS
CHKD.		PLOT DATE:	12/12/2014
FILE:	Vicinity Map		

EXH 1



CLIENT:



**VILLAGE OF
BENSENVILLE**

TITLE:

**WHITE PINES AREA
EXISTING WATER MAINS**

PROJ. NO. 120433

DATE: 12-11-14

SHEET 1 OF 1

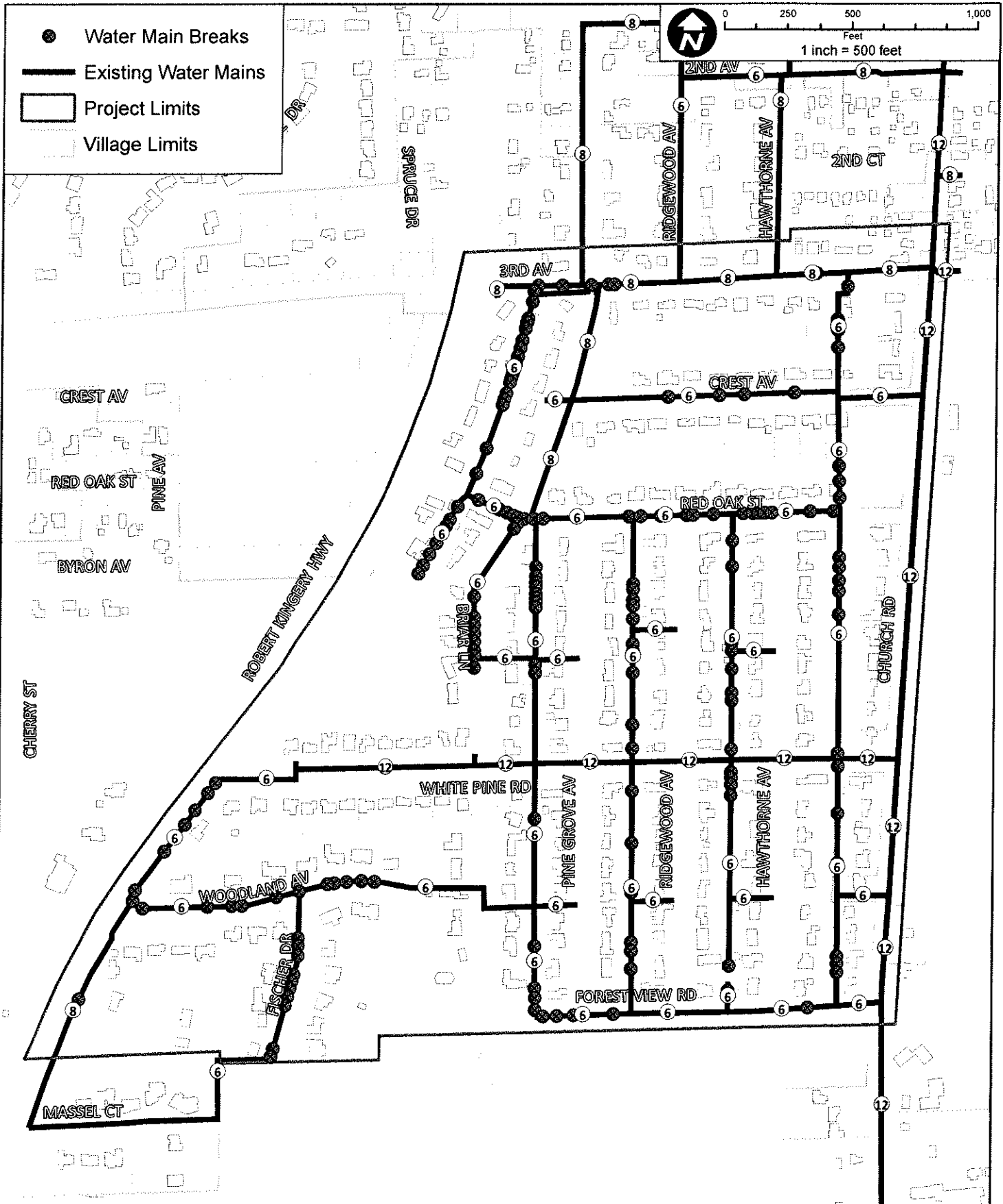
DRAWING NO.

EXH 2



CHRISTOPHER B. BURKE ENGINEERING, LTD.
 9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN		SCALE:	1:6000
DWN		AUTHOR:	DWALTERS
CHKD		PLOT DATE:	12/12/2014
FILE:	Existing White Pines Water System		



Path: N:\BENSENVILLE\120433\GIS\Exhibits\Water Main Break Locations.mxd

CLIENT:



**VILLAGE OF
BENSENVILLE**

TITLE:

**WHITE PINES AREA
WATER MAIN BREAK LOCATIONS
1986-2013**

PROJ. NO. 120433

DATE: 12-11-14

SHEET 1 OF 1

DRAWING NO.

EXH 3



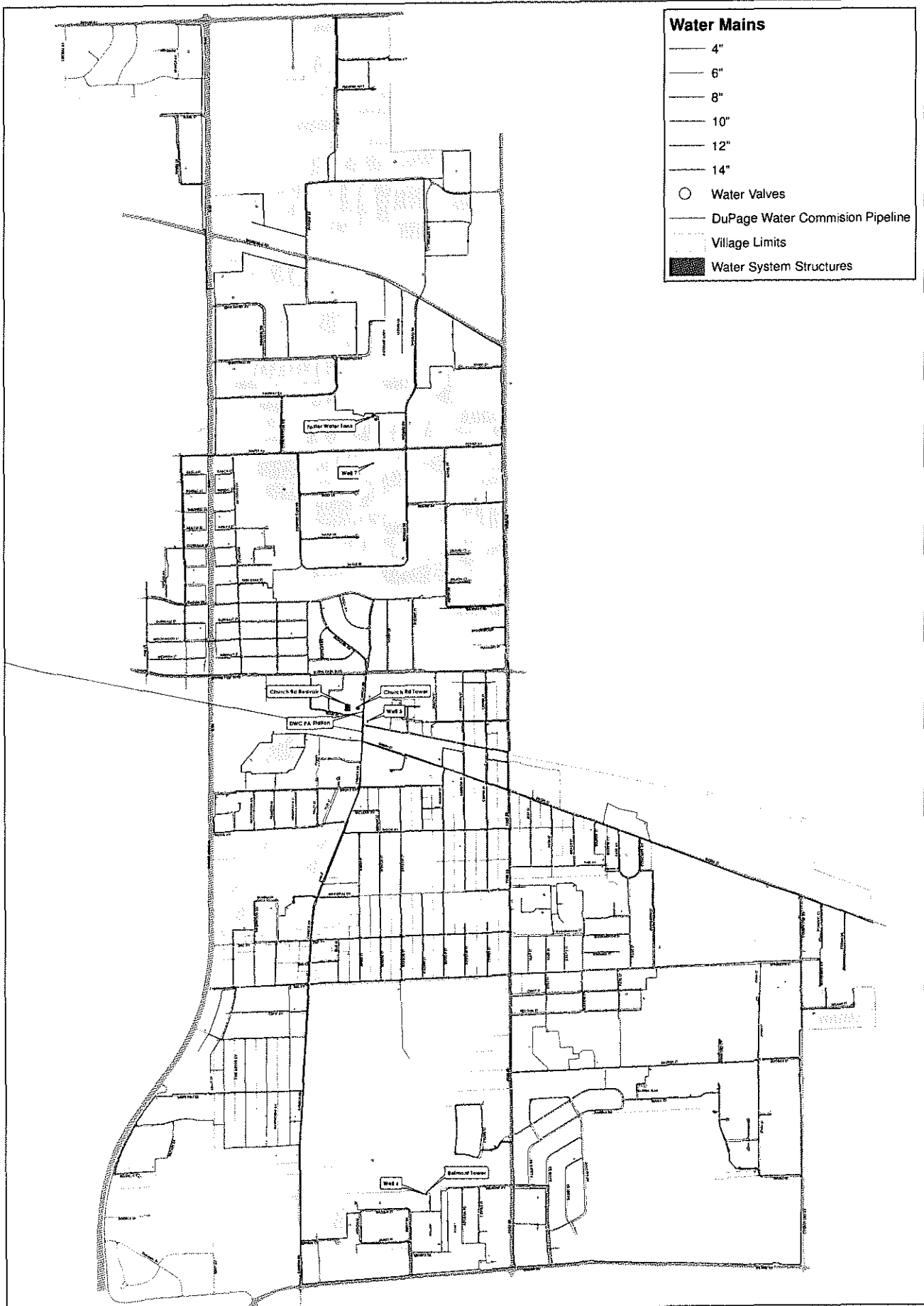
CHRISTOPHER B. BURKE ENGINEERING, LTD.

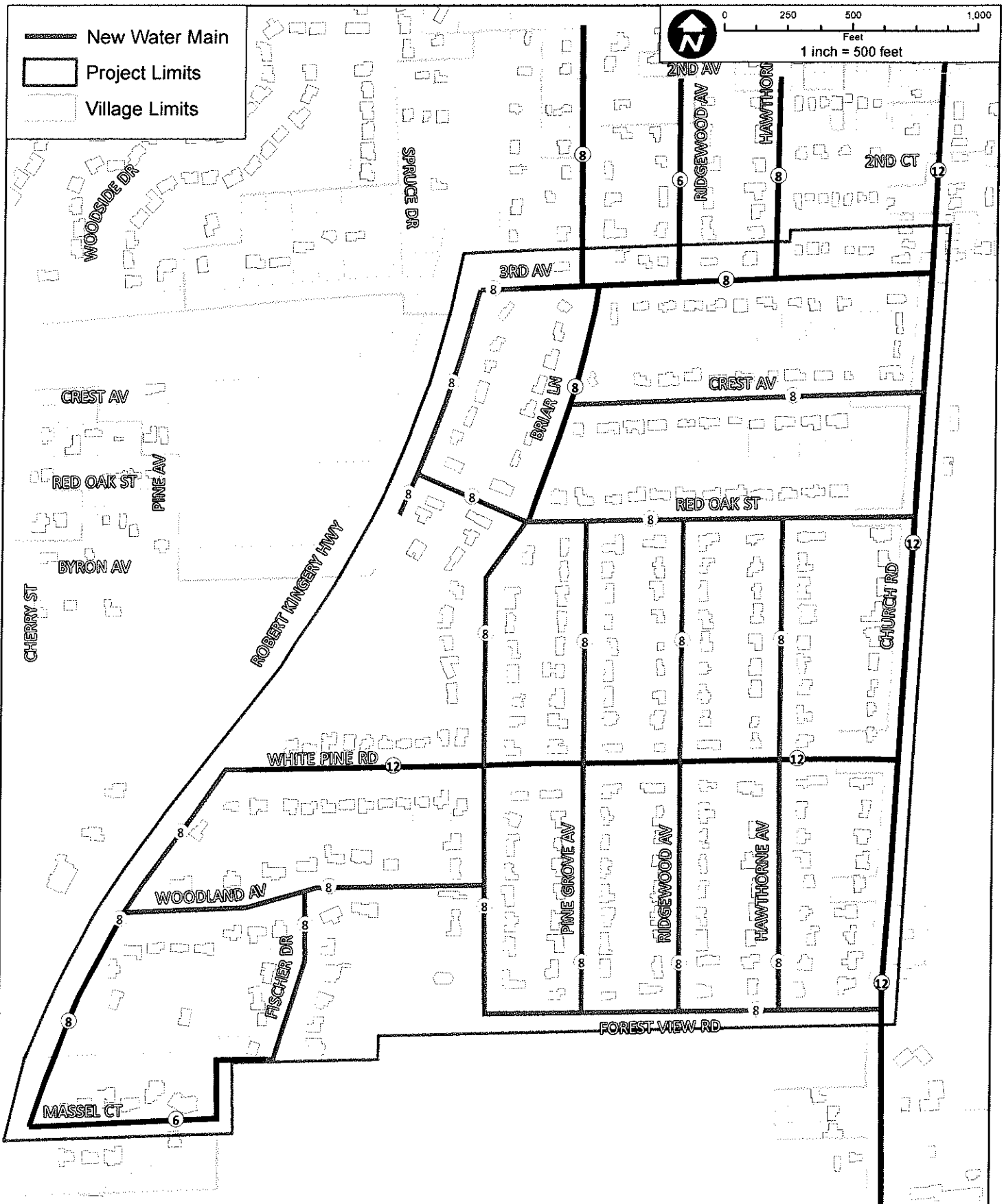
9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN.		SCALE:	1:6000
DWN.		AUTHOR:	DWALTERS
CHKD.		PLOT DATE:	1/8/2015
FILE:	Water Main Break Locations		

Village of Bensenville

Water System- Updated Fall 2014





CLIENT:



**VILLAGE OF
BENSENVILLE**

TITLE:

**WHITE PINES SUBDIVISION
PROPOSED PROJECT**

PROJ. NO. 120433

DATE: 1-24-19

SHEET 1 OF 1

DRAWING NO.

EXH 5



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN.		SCALE:	1:6000
DWN.		AUTHOR:	DWALTERS
CHKD.		PLOT DATE:	1/24/2019
FILE:	Chosen Alternative		

EXHIBIT 6**White Pines Water System Improvements**

Village of Bensenville, Illinois

Preliminary Estimate of Cost

1/21/2019

Engineer's Opinion of Approximate Cost (Preliminary)

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost</u>
Trench Backfill	Cu Yd	13,365	\$45	\$601,425
DIWM, 6"	Foot	812	\$85	\$69,020
DIWM, 8"	Foot	16,635	\$95	\$1,580,325
DIWM, 8" (Directional Bore)	Foot	288	\$350	\$100,800
Valve in New Vault, 8"	Each	43	\$6,000	\$258,000
Valve in New Vault, 6"	Each	2	\$5,000	\$10,000
Valve in Existing Vault, 8"	Each	8	\$3,000	\$24,000
New Public Water Service or Service Replacement	Each	231	\$3,000	\$693,000
New Private Water Service or Service Replacement	Each	165	\$8,000	\$1,320,000
Fire Hydrant and Auxiliary Valve	Each	54	\$6,000	\$324,000
Pavement Patching, 12" Thick (IDOT)	Sq Yd	589	\$110	\$64,790
Pavement Patching	Sq Yd	9,909	\$55	\$544,995
Driveway Pavement Removal & Replacement	Sq Yd	836	\$60	\$50,160
Connection to Existing Water Main	Each	19	\$3,500	\$66,500
Landscape Restoration (Seeding)	Sq Yd	7,951	\$10	\$79,510
Erosion and Sediment Control (0.5%)	L Sum	1	\$28,933	\$28,933
Traffic Control (2.5%)	L Sum	1	\$145,386	\$145,386
Mobilization (4%)	L Sum	1	\$238,434	\$238,434
Construction Total				\$6,199,278
Design Engineering and Permitting:				\$437,324
Construction Engineering (8%):				\$495,942
Legal Fees:				\$100,000
Engineering, Permitting and Legal Total				\$1,033,266
Total Estimated Project Cost				\$7,232,544

Assumptions:

1. All costs in 2019 dollars.
2. Cost estimate does not include costs related to acquisition of easements.
3. Cost estimate does not include private utility relocation work.
4. Estimate does not include replacement of water mains on 3rd Avenue, Briar Lane (3rd Avenue to Red Oak), White Pines Road and Church Road.
5. Estimate does not include roadway resurfacing.

Tab 3

APPENDIX A



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Funding Nomination for Loan Assistance for Drinking Water Facilities Annual Filing Deadline: January 31

Agency Use Only:	Date Received: _____	Project Number: _____
	New App. _____	Renewal App. _____

1. Legal Name of Applicant: Village of Bensenville

2. Address:

717 E. Jefferson Street
Bensenville, IL 60106

3. Organizational Type:

- ☒ Unit of Local Government ☐ Not-for Profit Water Corporation
☐ Investor Owned Water Utility ☐ Mutually or Cooperatively Owned Water System

4. Location Information:

- a) County DuPage c) Illinois House District # 77
b) U.S. Congressional District # IL-5 d) Illinois Senate District # 39

5. Authorized Representative:

Name: Joseph Caracci, PE Title: Director of Public Works
Phone: 630-350-3435

6. Engineer:

Name: Bryan Welch, PE Firm: Christopher Burke Engineering

Address:

9575 W. Higgins Road
Suite 600
Rosemont, IL 60018

Phone: 847-823-0500

7. Facility Number 0434140

8. Reason for Project:

- ☐ A) Compliance Project
 ☐ 1) MCL Violation Parameter _____
 ☐ 2) Treatment Technique Parameter _____
 ☐ 3) Technical Policy Violation
☐ B) New Service Project
☒ C) Service Continuation Project

9. Number of Billed Customers 267

10. Population Served by Proposed Project 747

11. Project Description:

Project includes engineering and construction of the retirement of approximately 75-year-old 6" diameter mains located in rear yard easements and construction of new 8"-diameter ductile iron water main within existing street rights-of-way. Project shall also include construction of new water services from existing houses to the new mains and removal of all lead water services to the house, as well as new valves, fire hydrants and service boxes.

12. Cost Estimate \$7,000,000.00

13. Project Schedule:

Project Planning Submission Date Mar 1, 2019

Plan and Specification Submission Date May 31, 2019

Contract Award Date Feb 28, 2020

Completion of Construction Date Nov 30, 2021

Authorized Representative

Joseph M. Caracci

Date

1-8-19

Certificate Regarding O & M

Whereas, under the provisions of the State Revolving Loan Fund Regulations, it is required that Village of Bensenville, the governing body, provide assurance of efficient operation and maintenance of the public water supply facilities proposed under project L17-4402.

Therefore, be it resolved by Village of Bensenville, the governing body, hereby certifies that it has a properly certified operator and that the following training and documents have been provided for the operation and maintenance of the equipment and/or process units included in the project, and that applicable documents are available for Agency review;

1. Training pertaining to the proper operation and maintenance of the equipment and process units included in the project.
2. An operation and maintenance reference library which includes, but is not limited to, the following:
 - a. Manufacturer's literature, shop drawings and warranties, as well as a maintenance schedule for the equipment and process units included in the project;
 - b. The plans of record with valve indices for the equipment and process units included in the project.
3. Training pertaining to the general operation of public water facilities or distribution systems, consisting of an operator self-study course such as Water Treatment Plant Operations, Volumes I and II, or Small Water System Operation and Maintenance, or Water Distribution System Operation and Maintenance, California State University, Sacramento.

Joseph M. Caracci, Director of Public Works
Signature and Title of Authorized Representative

1-31-19
Date

APPENDIX B

IEPA Loan Applicant Environmental Checklist

Loan Applicant: Village of Bensenville

L17#: 174402

Checklist must be signed by loan applicant's Authorized Representative (not engineering consultant)
ALL loan applicants must provide items 1 and 2 below. Items 3-6 are specific to conditions of project.

1) National Historic Preservation Act, Section 106 sign-off:

Circle one: Attached OR Date requested _____

2) Provide record of consultation with Illinois Department of Natural Resources Office of Realty and Environmental Planning regarding compliance with Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act and Illinois Interagency Wetlands Protection Act.

Circle one: EcoCAT printout DNR Letter Date DNR consultation requested: 11/1/2018

OR Project is exempt from consultation per Title 17 Ill. Adm. Code Parts 1075 and 1090. If this is selected, an explanation must be attached. Exemption is rare. Check here if project is exempt _____

3) Yes X No Project involves construction in or near a stream bank (includes stream/river crossing), floodway and/or wetland.

IF YES: By signing below applicant certifies they will comply with the Rivers, Lakes & Streams Act.

IF YES: Comments from the Army Corps of Engineers are required.

Circle one: Attached OR Date requested _____

4) Yes X No Project involves conversion of prime agricultural land to other uses.

IF YES: Description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided in planning.

5) Yes X No Project includes growth resulting in more than a 30% reserve capacity in the present or proposed service.

IF YES: Prior to planning approval a detailed discussion in the planning documents must be provided documenting potential secondary impacts of the proposed project.

WASTEWATER PROJECTS ONLY

6) Yes No Project is within jurisdiction of a designated Water Quality Management Agency such as Chicago Metropolitan Agency for Planning (CMAP), Greater Egypt Regional Planning & Development Commission (GERPDC) or Southwestern Illinois Planning Commission (SIPC).

IF YES to CMAP: IEPA will forward information to CMAP for comments. No further action is required.

IF YES to GERPDC or SIPC: Comments from the appropriate agency regarding the project, growth projections and Facility Planning Area (FPA) modifications (if applicable) are required.

Circle one: Attached OR Date requested _____

7) Yes No A change in the Facility Planning Area (FPA) is proposed.

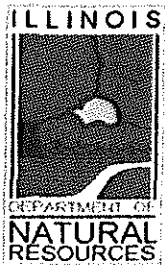
IF YES: Comments from Illinois Department of Agriculture regarding the FPA change are required.

Circle one: Attached OR Date requested _____

Specific contact information for the various offices and agencies which must be contacted, as well as the sources for further information, is detailed within the instruction guide for this checklist.

Signed: Joseph M. Caracci
Loan Applicant's Authorized Representative

Date: 1-31-19



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
www.dnr.illinois.gov

Bruce Rauner, Governor

Wayne A. Rosenthal, Director

DuPage County
Bensenville

PLEASE REFER TO: SHPO LOG #002110518

3rd Ave., Crest Ave., Red Oak St., Forest View Rd., White Pine Rd. Woodland Ave., Fischer Dr., Pine Grove Ave., Ridgewood Ave.,
Hawthorne Ave & Church Rd.

Section:23-Township:40N-Range:11E

CBBEL-120433, IEPA LOAN

Water main replacement

November 28, 2018

Thomas McArdle
Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018

Dear Mr. McArdle:

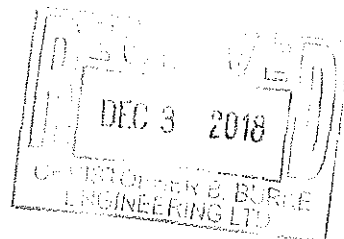
We have reviewed the documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two (2) years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you are an applicant, please submit a copy of this letter to the state or federal agency from which you obtain any permit, license, grant, or other assistance. If further assistance is needed contact Jeff Kruchten, Chief Archaeologist at 217/785-1279 or Jeffery.kruchten@illinois.gov.

Sincerely,

Robert F. Appleman
Deputy State Historic
Preservation Officer



Applicant: Burke Engineering
Contact: Thomas McArdle
Address: 9575 W. Higgins
Rosemont, IL 60018

IDNR Project Number: 1904561
Date: 11/01/2018
Alternate Number: 1507206

Project: Bensenville Water Mains
Address: Route 83 and White Pines Road, Bensenville

Description: Bensenville will be completing water main improvements.

Natural Resource Review Results

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Fischer Woods INAI Site
Wood Dale Grove INAI Site
Sedge (*Carex bromoides*)
Tuckerman's Sedge (*Carex tuckermani*)

An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.

Location

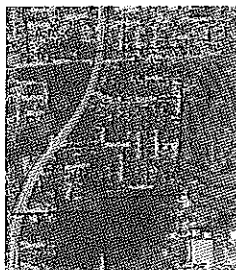
The applicant is responsible for the accuracy of the location submitted for the project.

County: DuPage

Township, Range, Section:

40N, 11E, 22

40N, 11E, 23



IL Department of Natural Resources
Contact
Bradley Hayes
217-785-5500
Division of Ecosystems & Environment

Government Jurisdiction
U.S. Army Corps of Engineers

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

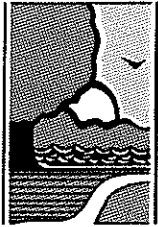
Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

JB Pritzker, Governor

Colleen Callahan, Director

April 26, 2019

Thomas McArdle
Burke Engineering
9575 W. Higgins
Rosemont, IL 60018

RE: Bensenville Water Mains
Project Number(s): 1904561 [1507206]
County: DuPage

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

However, the Department recommends a construction barrier and silt fence be utilized to keep workers within the project site and to protect Fischer Woods INAI site.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Bradley Hayes
Division of Ecosystems and Environment
217-785-5500

APPENDIX C

**VILLAGE OF BENSENVILLE
12 S. CENTER STREET
BENSENVILLE, ILLINOIS 60106**

Ordinance No. 68-2017

**An Ordinance of the Village of Bensenville, DuPage and Cook Counties, Illinois
Amending Section 8-7-7 of Chapter Seven of Title Eight of the
Bensenville Village Code with Regard to Water and Sewer Rates**

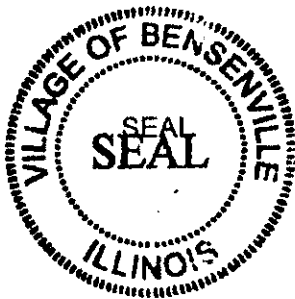
**ADOPTED BY THE
VILLAGE BOARD OF TRUSTEES
OF THE
VILLAGE OF BENSENVILLE
THIS 12th DAY OF DECEMBER 2017**


Published in pamphlet form by authority of the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois this 13th day of December, 2017

STATE OF ILLINOIS)
COUNTIES OF COOK)
SS AND DUPAGE)

I, Corey Williamsen, do hereby certify that I am the duly appointed Deputy Village Clerk of the Village of Bensenville, DuPage and Cook Counties, Illinois, and as such officer, I am the keeper of the records and files of said Village; I do further certify that the foregoing constitutes a full, true and correct copy of Ordinance No. 68-2017 entitled an Ordinance of the Village of Bensenville, DuPage and Cook Counties, Illinois Amending Section 8-7-7 of Chapter Seven of Title Eight of the Bensenville Village Code with Regard to Water and Sewer Rates.

INWITNESS WHEREOF, I have hereunto affixed my official hand and seal on this 13th day of December, 2017.





Corey Williamsen
Deputy Village Clerk

ORDINANCE NO. 68-2017

**AN ORDINANCE OF THE VILLAGE OF BENSENVILLE, DUPAGE AND
COOK COUNTIES, ILLINOIS AMENDING SECTION 8-7-7 OF CHAPTER
SEVEN OF TITLE EIGHT OF THE BENSENVILLE VILLAGE CODE
WITH REGARD TO WATER AND SEWER RATES**

WHEREAS, the Village of Bensenville, DuPage and Cook Counties, Illinois (the "*Village*") is a duly organized and existing municipal corporation created under the provisions of the laws of the State of Illinois and under the provisions of the Illinois Municipal Code, as from time to time supplemented and amended; and

WHEREAS, pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*, the Village owns and operates sewer and water infrastructure and facilities (the "*System*") within and outside the corporate boundaries of the Village; and

WHEREAS, the Illinois Municipal Code further authorizes the Village to charge for the maintenance, use and operation of the System and to establish rates for that purpose; and

WHEREAS, in order to simplify the current rate structure, the debt service charge is being reclassified as a fixed charge and the capital recovery charge is being eliminated and incorporated into the base water and sewer charges; and

WHEREAS, the Village has carefully considered the operation, condition and maintenance of the System and the revenues and expenses associated therewith.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois, as follows:

Section 1. That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2. The Corporate Authorities find and determine that it is necessary and desirable to amend the Bensenville Village Code for the purpose set forth herein and that the adoption of this Ordinance is in the best interests of the Village.

Section 3. Section 8-7-7 ("*Rates*") of Chapter Seven ("*Water and Sewer Service Regulations*") of Title 8 ("*Public Ways and Property*") of the Bensenville Village Code, is hereby amended by deleting the following stricken language and adding the underlined language to read, as follows:

SECTION 8-7-7: RATES

A. Within the Corporate Limits: Effective January 1, ~~2017~~ 2018

	Meter Size (Inches)						
	5/8 or 3/4	1	1.5	2	3	4	6
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	\$6.85	\$6.85	\$6.85	\$6.85	\$6.85	\$6.85	\$6.85
Above 10,000 gallons per month (per 1,000 gallons)	7.88	7.88	7.88	7.88	7.88	7.88	7.88
Sewer charge:							
First 10,000 gallons per month (per 1,000 gallons)	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Above 10,000 gallons per month (per 1,000 gallons)	6.22	6.22	6.22	6.22	6.22	6.22	6.22
Nonmetered account—fixed sewer fee	48.78	48.78	48.78	48.78	48.78	48.78	48.78
Fixed debt service charge:							
Water service fixed debt service fee	2.90	9.75	19.30	30.95	58.13	96.95	193.71
Sewer service fixed debt service fee	5.77	19.18	38.61	61.71	115.56	192.52	385.31

Capital recovery charge:							
Water capital recovery per 1,000 gallons	2.83	2.83	2.83	2.83	2.83	2.83	2.83
Sewer capital recovery per 1,000 gallons	3.07	3.07	3.07	3.07	3.07	3.07	3.07
Sewer capital recovery nonmetered (fixed)	27.63	27.63	27.63	27.63	27.63	27.63	27.63
Senior discount per month	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Industrial pretreatment:							
First 1,000 gallons per month (per 1,000 gallons)	8.32	8.32	8.32	8.32	8.32	8.32	8.32
Above 1,000 gallons per month (per 1,000 gallons)	1.28	1.28	1.28	1.28	1.28	1.28	1.28

	Meter Size (Inches)						
	<u>3/8 or 1/4</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>
Above 10,000 gallons per month (per 1,000 gallons)	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>
Sewer charge:							
First 10,000 gallons per month (per 1,000 gallons)	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>
Above 10,000 gallons per month (per 1,000 gallons)	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>
Nonmetered account - fixed sewer fee	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>
Fixed service charge:	<u>10.00</u>	<u>30.00</u>	<u>60.00</u>	<u>100.00</u>	<u>180.00</u>	<u>300.00</u>	<u>600.00</u>
Senior discount per month	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>
Industrial pretreatment:							
First 1,000 gallons per month (per 1,000 gallons)	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>
Above 1,000 gallons per month (per 1,000 gallons)	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>

B. Outside the Corporate Limits: Effective January 1, 2017 2018, one hundred fifty percent (150%) of the incorporated rates:

	<u>Meter Size (Inches)</u>						
	<u>5/8 or 3/4</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	\$10.28	\$10.28	\$10.28	\$10.28	\$10.28	\$10.28	\$10.28
Above 10,000 gallons per month (per 1,000 gallons)	11.82	11.82	11.82	11.82	11.82	11.82	11.82
Sewer charge:							
First 10,000 gallons per month (per 1,000 gallons)	8.13	8.13	8.13	8.13	8.13	8.13	8.13
Above 10,000 gallons per month (per 1,000 gallons)	9.33	9.33	9.33	9.33	9.33	9.33	9.33
Nonmetered account—fixed sewer fee	73.17	73.17	73.17	73.17	73.17	73.17	73.17
Fixed debt service charge:							
Water service fixed debt service fee	4.36	14.64	28.95	46.43	87.20	145.44	290.57
Sewer service fixed debt service fee	8.65	28.77	57.93	92.57	173.34	288.78	577.97
Capital recovery charge:							
Water capital recovery per 1,000 gallons	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Sewer capital recovery per 1,000 gallons	4.60	4.60	4.60	4.60	4.60	4.60	4.60
Sewer capital recovery nonmetered (fixed)	41.40	41.40	41.40	41.40	41.40	41.40	41.40
Industrial pretreatment:							
First 1,000 gallons per month (per 1,000 gallons)	12.48	12.48	12.48	12.48	12.48	12.48	12.48
Above 1,000 gallons per month (per 1,000 gallons)	1.92	1.92	1.92	1.92	1.92	1.92	1.92

	<u>Meter Size (Inches)</u>						
	<u>5/8 or 3/4</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00

<u>Above 10,000 gallons per month (per 1,000 gallons)</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>
<u>Sewer charge:</u>							
<u>First 10,000 gallons per month (per 1,000 gallons)</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>
<u>Above 10,000 gallons per month (per 1,000 gallons)</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>
<u>Nonmetered account - fixed sewer fee</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>
<u>Fixed service charge:</u>	<u>15.00</u>	<u>45.00</u>	<u>90.00</u>	<u>150.00</u>	<u>270.00</u>	<u>450.00</u>	<u>900.00</u>
<u>Industrial pretreatment:</u>							
<u>First 1,000 gallons per month (per 1,000 gallons)</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>
<u>Above 1,000 gallons per month (per 1,000 gallons)</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>

Section 4. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 5. All ordinances, resolutions, motions or orders in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 6. This Ordinance shall be in full force and effect:

- i. upon its passage, approval and publication as provided by law; and
- ii. shall apply to all service charges on and after January 1, 2018.

(Intentionally Left Blank)

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois, this 12th day of December 2017, pursuant to a roll call vote, as follows:

APPROVED:



Frank DeSimone, Village President

ATTEST:


Nancy Quinn, Village Clerk

AYES: Carmona, Franz, Jaworska, Lomax, Panicola, Perez

NAYES: None

ABSENT: None

The fixed rate changes (for incorporated customers) are as below:

The variable water/sewer rates (for incorporated customers) are as below:

The Full schedule of charges are as below:

[illegible]

Outside the Corporate Limit of the Village of Bensenville 150 % of the incorporated rates

	Meter Size						
	5/8 Inch or 3/4 Inch	1 Inch	1.5 Inch	2 Inch	3 Inch	4 Inch	6 Inch
Water Charge							
First 10,000 gallons per month (per 1000 gallons)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00
Above 10,000 gallons per month (per 1000 gallons)	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00
Sewer Charge							
First 10,000 gallons per month (per 1000 gallons)	\$12.74	\$12.74	\$12.74	\$12.74	\$12.74	\$12.74	\$12.74
Above 10,000 gallons per month (per 1000 gallons)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00
Non Metered Account - Fixed Sewer Fee	\$114.62	\$114.62	\$114.62	\$114.62	\$114.62	\$114.62	\$114.62
Fixed Service Charge	\$15.00	\$45.00	\$90.00	\$150.00	\$270.00	\$450.00	\$900.00
Industrial Pretreatment							
First 1,000 Gallons per month	\$12.48	\$12.48	\$12.48	\$12.48	\$12.48	\$12.48	\$12.48
Above 1,000 gallons per month	\$1.92	\$1.92	\$1.92	\$1.92	\$1.92	\$1.92	\$1.92

Should you have any question about water/sewer rates, please give us a call at 630-766-8200.

APPENDIX D



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Drinking Water Project Planning Submittal Checklist **Planning File**

Before the Agency will begin review of a Project Plan, all of the items below comprising the basic minimum requirements of a Project Plan must be included and the page number(s) of all items noted. Project planning must contain all pertinent information detailed in Ill. Adm. Code 35 Section 662.320(e). The loan applicant should be familiar with their planning responsibilities as detailed in Sections 662.320 and 662.330.

Complete this form online using Adobe Acrobat Reader, save it to your computer, then print and sign it.

Loan Applicant: Village of Bensenville

Consulting Engineer: Christopher B. Burke Engineering, Ltd.

Phone Number: 847-823-0500

Project Description:

White Pines Area Water Main Replacement - Installation of approximately 17,000 feet of 8"-diameter ductile iron water main, new valves in vaults, fire hydrants and copper water services.

Fill in the blank with the page(s) where each item below is found in the project plan. Additional information and/or examples for each item number are provided by corresponding numbers contained in the attached instructions.

No.	Page(s) or Comment	Information
1.	1-5	Loan applicant's background, total population served by the applicant, customer base, and project location information.
2.	6-7	Detailed description of the EXISTING public water supply source(s), treatment facilities, water storage facilities, and distribution system.
3.	3-4	Project description that explains the need and justification of the proposed project, including the benefits of the project.
4.	11	Discussion of the system's compliance with all applicable laws and regulations governing public water systems.
5.	11	Basis of design for chosen alternative.
6.	12-13	Inventory of environmental impacts of selected alternative, a discussion of the required mitigation measures, and a completed IEPA Loan Applicant Environmental Checklist form with sign-off documentation.
7.	Exhibits 1 & 5	Reproducible 8.5 X 11 inch map(s) showing the project(s) location(s) relative to the community.
8.	13-14, Exh 6	An estimate of the total project costs and a detailed estimate of construction item costs.
9.	15	Estimated loan terms, including: IEPA loan amount, interest rate, repayment period in years, and the annual loan repayment.
10.	15-18	Financial arrangements for assuring adequate annual debt service and O, M, and R coverage, a description of the dedicated source of revenue necessary for loan repayment, and any other funding involved in the project.

No.	Page(s) or Comment	Information
11.	8, 16-18	Detailed description of the existing residential rate structure, water consumption, any proposed rate changes, and an example of the existing and the proposed average monthly residential bill because of the project(s).
12.	Enclosed	One copy of completed Existing User Charge and O, M, and R Certification Sheet found on page 3 (attached) should be submitted with the Project Plan.
13.	N/A	Discussion of any "green" project components that are part of the proposed project.
14.	19	Schedule for project implementation.
15.	N/A	Copies of inter-governmental and/or service agreements.
16.	19	IEPA construction permit status.
17.	19	Name and address of the local newspaper(s).

Three (3) copies of the Project Plan and related documents should be submitted along with one (1) copy of this completed checklist (pages 1 through 3) to:

Infrastructure Financial Assistance Section (IFAS)
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

IFAS will distribute the planning documents to the appropriate Agency staff for review, comment, and approval. IFAS will contact the loan applicant if further information is needed. Please use the box below for any special instructions or notes.



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Existing User Charge and O, M, and R Certification Sheet

19,152	Number of current residential customers served by the system.
4500	Actual average residential water use per customer per month (based on historical billing data)
\$55.00	Current average monthly residential bill

Provide details that apply to your specific user rate charges:

Water use charges: \$10.00 per 1,000 gallons
 _____ per _____ cubic feet

Flat Fee or Monthly User Charge: \$10.00

Debt Service Charge: _____

Capital Improvement Charge: _____

Wholesale Charge: _____

Meter Service Fee (average-sized meter): _____

Other Charge: _____ Explain: _____

Other Charge: _____ Explain: _____

1. Is the water/sewer fund annually operating in a positive or negative balance at this time? (select one)

☒ Positive ☐ Negative

2. Based upon your most recent annual budget please indicate the net operating income for your water/sewer fund:

\$ 1,616,819.00

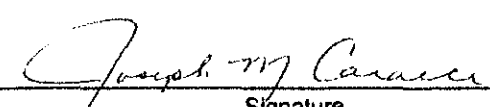
- Net Operating Income = Total Revenue - Total Cost of Providing Service
- Total Revenue = Revenue from user charges, commercial, residential, or wholesale, plus any other dedicated water/sewer fund revenue
- Total Cost of Providing Service = All Operation and Maintenance costs (including replacement fund) plus dedicated water/sewer fund debt

3. Will a rate increase or other revenue generating action be necessary to pay for this project? (select one)

☒ Yes ☐ No

4. If a rate increase (or other cost increase) is necessary, please provide the proposed user rate charges and proposed average monthly residential water bill as an attachment. *SEE PLANNING REPORT TABLES 3.4 AND 3.6*

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Joe Caracci, PE _____ Authorized Representative (Printed)	Public Works Director _____ Title
 _____ Signature	<u>1-31-19</u> _____ Date

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Fire guts White Pines house as firefighters hampered by water main breaks



Jake Griffin

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9/21/2018

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A house on Woodland Avenue near Bensenville valued at roughly \$600,000 was destroyed by a fire Thursday after firefighters were thwarted by water main breaks that disabled nearby hydrants.
(Courtesy of the Village of Bensenville)

Firefighters from five suburban agencies were battling a massive house fire in an unincorporated part of DuPage County near Bensenville Thursday evening when their hoses went dry after about five minutes.

Two breaks in the 71-year-old water mains within the White Pines neighborhood rendered nearby hydrants useless, Bensenville Fire Protection District Chief Michael Spain said.

As the fire raged -- eventually gutting the \$600,000 two-story, brick house on the 17W100 block of Woodland Avenue -- firefighters were further

hampered by the 1,000-foot setback of the house from the road.

Eventually, they staggered engines every 300 feet down the driveway in order to pump water brought in by other specialty trucks. Spain said about \$20 million in equipment was used in a futile two-hour effort to extinguish the fire.

After initially getting the call at 7:53 p.m., fire officials declared the fire extinguished shortly after 10 p.m. Spain believes the fire had been burning for nearly an hour before it was discovered.

"By that time, it had partially just burned itself out," Spain said.

No firefighters were injured in the blaze. And the home, which authorities said has been for sale for nearly a year, was unoccupied.

Firefighters from fire protection districts or departments in Addison, Itasca, Elmhurst and Wood Dale assisted Bensenville. The cause of the fire remains under investigation by the DuPage County Arson Task Force, Spain said.

"It was incredibly frustrating to watch the firefighters trying to do their job but unable to do their jobs," said Bensenville Village Manager Evan Summers, who was at the scene of the fire for most of the evening.

Fire and village officials said the inability to properly fight Thursday's fire is another example of why the White Pines neighborhood of some 280 homes is in desperate need of water infrastructure upgrades. Summers said this is the third fire in the last three years that's been hampered by issues related to the aged water mains installed in 1947.

"This tells us what we've known for a long time, which is replacing these water mains is a life-safety issue," Summers said.

The village and the unincorporated residents of White Pines have been at odds for decades over the costs of upgrading the water system. The residents believe the village is trying to strong-arm them into annexing into the village by inflating the cost of the project.

Plans to replace the water system are underway.

Bensenville is going to apply for a loan from the Illinois Environmental Protection Agency to help fund the project.

If the village gets the loan, White Pines residents will see their water rates climb to \$27.50 per 1,000 gallons from the current \$15 rate, Summers said. The extra money will be used to pay off the loan. If they choose to annex, the rates won't be as high and money from new property taxes would be used to offset the cost of the loan.

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Michael Spain, Bensenville Fire Protection district, Evan Summers, DuPage county, Bensenville village, Woodland avenue, Arson Task Force, Wood Dale

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Bryan Welch

From: Amit Thakkar <ATHakkar@bensenville.il.us>
Sent: Tuesday, December 18, 2018 5:37 PM
To: Joseph Caracci; Scott Viger; Evan Summers; John Dalicandro
Subject: Attendance for the White Pines Open House

There were representatives of 92 households at the White Pines Open House who came and picked up their packets.

Thanks,
Amit

0323303011	Yes	4N370 CHURCH RD, BENSENVILLE IL 60106	PETRAS, ROBERT & ANNA	7/24/2018
0323303005	Yes	4N341 HAWTHORNE AVE, BENSENVILLE IL 60106	DICOSOLA, MARK	7/24/2018
0322216002	Yes	4N441 RT 83, BENSENVILLE IL 60106	ROSENTHAL, WM R	7/24/2018
0323305008	Yes	4N163 PINE GROVE AVE, BENSENVILLE IL 60106	SHAWALUK, EDIE & MARK	7/24/2018
0323300017	Yes	4N400 PINE GROVE AVE, BENSENVILLE IL 60106	SLEDZIK, STANLEY & MARY	7/24/2018
0323300010	Yes	4N386 PINE GROVE AVE, BENSENVILLE IL 60106	BRILL, JAMES & DEBORAH	7/24/2018
0323118012	Yes	16W760 RED OAK ST, BENSENVILLE IL 60106	FARAONE, MARIANNE & ANDREW	7/24/2018
		17W060 WOODLAND AVE, BENSENVILLE IL 60106		
0322409022	Yes		PAEZ, STEVEN & JENNIFER	7/24/2018
0323120003	Yes	16W701 RED OAK ST, BENSENVILLE IL 60106	RICKE, MARGE	7/24/2018
		17W078 WOODLAND AVE, BENSENVILLE IL 60106		
0322409021	Yes		KNIAZ, RICHARD & DAWN	7/24/2018
		17W131 WOODLAND AVE, BENSENVILLE IL 60106		
0322410007	Yes		GARDNER, LILLIAN & GARRY	7/24/2018
0323307004	Yes	4N225 HAWTHORNE AVE, BENSENVILLE IL 60106	JOHNSON, JOSEPH & CRYSTAL	7/24/2018
0322408004	Yes	4N366 BRIAR LN, BENSENVILLE IL 60106	ORNOWSKA, MALGORTAZA	7/24/2018
0323305012	Yes	240 RIDGEWOOD AVE, BENSENVILLE IL 60106	BREWER, JORDON & JUDITH	7/24/2018
0322409009	Yes	17W057 WHITE PINE RD, BENSENVILLE IL 60106	ROSENBERG, BEN F	7/24/2018
0323304001	Yes	16W781 WHITE PINE RD, BENSENVILLE IL 60106	HAMILTON, JAMES T	7/24/2018
0323305017	Yes	4N164 RIDGEWOOD AVE, BENSENVILLE IL 60106	COOK, JAMES T	7/24/2018
0323118019	Yes	16W650 RED OAK ST, BENSENVILLE IL 60106	TURNER, LINDA	7/24/2018
0323118017	Yes	16W680 RED OAK ST, BENSENVILLE IL 60106	JEFFERSON, DOLORES M	7/24/2018
0323305014	Yes	4N208 RIDGEWOOD AVE, BENSENVILLE IL 60106	LEVEEN, JOHN E & ELEANOR M	7/24/2018
0323305001	Yes	4N261 PINE GROVE AVE, BENSENVILLE IL 60106	KATER, PATRICIA	7/24/2018
0323301005	Yes	4N335 PINE GROVE AVE, BENSENVILLE IL 60106	JORGENSEN, MILDRED	7/24/2018
0323303003	Yes	4N371 HAWTHORNE AVE, BENSENVILLE IL 60106	KROUPA, Z & M SOBOTKOVA	7/24/2018
0323118008	Yes	16W639 CREST AVE, BENSENVILLE IL 60106	CELANO, JENNIFER	7/24/2018
0323305015	Yes	4N194 RIDGEWOOD AVE, BENSENVILLE IL 60106	CHATROOP, DAVID & CHERYL	7/24/2018
0323306013	Yes	4N224 HAWTHORNE, BENSENVILLE IL 60106	SEBASTIAN, GEOFFREY & C	7/24/2018
0323306001	Yes	16W661 WHITE PINES RD, BENSENVILLE IL 60106	GRIFFITH, RICHARD & L K	7/24/2018
0322408016	Yes	17W026 WHITE PINE RD, BENSENVILLE IL 60106	WIKELL, CAROL ANN	7/24/2018
0322216005	Yes	4N420 BRIAR LN, BENSENVILLE IL 60106	KRESS JR, EDWARD & GAIL	7/24/2018
0323117019	Yes	16W620 CREST AVE, BENSENVILLE IL 60106	PASSANANTI, BRIAN I	7/24/2018
0323116011	Yes	16W780 RED OAK ST, BENSENVILLE IL 60106	KRESS, MICHAEL F & ANITA	7/24/2018
0323305005	Yes	4N211 PINE GROVE AVE, BENSENVILLE IL 60106	MURYN, JAMES & CONNIE	7/24/2018

0323300003	Yes	4N371 BRIAR LN, BENSENVILLE IL 60106	KRESS, MICHAEL & ANITA	7/24/2018
0323118021	Yes	16W620 RED OAK ST, BENSENVILLE IL 60106	HANSEN, MICHAEL & DEANNA	7/24/2018
0322410015	Yes	4N120 FISCHER DR, BENSENVILLE IL 60106	ANTHONY, CAROL J	7/24/2018
0323116005	Yes	4N542 BRIAR LN, BENSENVILLE IL 60106	TSUSAKI, JACQUELINE M	7/24/2018
0323301011	Yes	4N370 RIDGEWOOD AVE, BENSENVILLE IL 60106	IGELMAN, GEORGE & JANET	7/24/2018
0323302003	Yes	4N371 RIDGEWOOD AVE, BENSENVILLE IL 60106	ZMORZYNSKI, EDWARD & D M	7/24/2018
0323118004	Yes	16W695 CREST AVE, BENSENVILLE IL 60106	PARENT, RICHARD & DEBRA	7/24/2018
0323117015	Yes	16W680 CREST AVE, BENSENVILLE IL 60106	HUNT, ALLEN J	7/24/2018
0323118009	Yes	16W621 CREST AVE, BENSENVILLE IL 60106	LOMBARDO, ANTHONY J	7/24/2018
0323118007	Yes	16W651 CREST AVE, BENSENVILLE IL 60106	HERFF, ALAN N	7/24/2018
0323306008	Yes	4N165 RIDGEWOOD AVE, BENSENVILLE IL 60106	HALL, CAROL TR	7/24/2018
0323307001	Yes	16W603 WHITE PINE RD, BENSENVILLE IL 60106	MAKOWIECKI, STANISLAW & M	7/24/2018
0323307017	Yes	4N150 CHURCH RD, BENSENVILLE IL 60106	ADCOCK, PHILIP L	7/24/2018
0323301007	Yes	4N311 PINE GROVE, BENSENVILLE IL 60106	SHAW, CELESTE	7/24/2018
0323307005	Yes	4N211 HAWTHORNE AVE, BENSENVILLE IL 60106	SKOL, BRIAN EDWARD	7/24/2018
0323307008	Yes	4N163 HAWTHORNE AVE, BENSENVILLE IL 60106	INMAN, MICHAEL & DAWN	7/24/2018
0323307007	Yes	4N181 HAWTHORNE AVE, BENSENVILLE IL 60106	SCHAU, SCOTT	7/24/2018
0323305009	Yes	16W720 FORESTVIEW RD, BENSENVILLE IL 60106	WILSON, GARY A	7/24/2018
0322216001	Yes	17W021 RED OAK ST, BENSENVILLE IL 60106	HERNANDEZ, OLGA	7/24/2018
0323117016	Yes	16W666 CREST AVE, BENSENVILLE IL 60106	YUNGERMAN, DANIEL & J	7/24/2018
0323304008	Yes	4N151 BRIAR LN, BENSENVILLE IL 60106	MAZAN, DANIEL & ELIZABETH	7/24/2018
0323300005	Yes	4N325 BRIAR LN, BENSENVILLE IL 60106	ZAKIUDDIN, MOHAMMED	7/24/2018
0323118001	Yes	4N481 BRIAR LN, BENSENVILLE IL 60106	MC CABE, DONALD & SHARRON	7/24/2018
0323304020	Yes	4N225 BRIAR LN, BENSENVILLE IL 60106	CARAGHER, BARYY M	7/24/2018
0323304002	Yes	4N251 BRIAR LN, BENSENVILLE IL 60106	SNYDER, R W & J L	7/24/2018
0323304019	Yes	4N241 BRIAR LN, BENSENVILLE IL 60106	LAURIDSEN, W H & SYLVIA	7/24/2018
0322411006	Yes	4N135 FISCHER DR, BENSENVILLE IL 60106	WEINCOUFF, GARY	7/24/2018
0323305003	Yes	4N241 PINE GROVE AVE, BENSENVILLE IL 60106	DUQUENE, NICK	7/24/2018
0323301004	Yes	4N359 PINE GROVE AVE, BENSENVILLE IL 60106	BAILEY, THOMAS & SHIRLEY	7/24/2018
0323119002	Yes	4N414 PINE GROVE AVE, BENSENVILLE IL 60106	SALDANA, ANTHONY & K	7/24/2018
0323109014	Yes	16W694 3RD AVE, BENSENVILLE IL 60106	SNYDER, BRAD & KERRI	7/24/2018
0323117014	Yes	16W692 CREST AVE, BENSENVILLE IL 60106	DAHLE, PAMELA R	7/24/2018
0323110006	Yes	16W656 3RD AVE, BENSENVILLE IL 60106	PLUMERI, M & B BROOK	7/24/2018
0323117010	Yes	16W587 3RD AVE, BENSENVILLE IL 60106	EICHHORN, MICHELLE	7/24/2018
0323117003	Yes	16W693 3RD AVE, BENSENVILLE IL 60106	OVERSTREET JR, LOWELL R	7/24/2018
0323117027	Yes	16W603 3RD AVE, BENSENVILLE IL 60106	DEVITT, ALLAN T	7/24/2018
0323307009	Yes	16W604 FOREST VIEW RD, BENSENVILLE IL 60106	MANNION, NICHOLAS & NORMA	7/24/2018
0323118013	Yes	16W740 RED OAK ST, BENSENVILLE IL 60106	KOCHANSKI, MICHAEL & L	7/24/2018
0323303014	Yes	4N324 CHURCH RD, BENSENVILLE IL 60106	KURPIEL, THOMAS P & MARY	7/24/2018
0323307010	Yes	16W575 WHITE PINE RD, BENSENVILLE IL 60106	FELIX, RICARDO & M R	7/24/2018
0323118015	Yes	16W710 RED OAK ST, BENSENVILLE IL 60106	GREEN, H LANNY	7/24/2018
0323118022	Yes	16W606 RED OAK ST, BENSENVILLE IL 60106	GAHANSHA, ASHOR	7/24/2018
0323117001	Yes	4N551 BRIAR LN, BENSENVILLE IL 60106	LUX, DAVID E & TINA M	7/24/2018
0323307011	Yes	4N252 CHURCH RD, BENSENVILLE IL 60106	SALZINGER, SCOT	7/24/2018
0323307002	Yes	4N251 HAWTHORNE AVE, BENSENVILLE IL 60106	HARMON, B & F PASHOVA	7/24/2018
0323304014	Yes	4N210 PINE GROVE AVE, BENSENVILLE IL 60106	BALOG, PAUL G	7/24/2018

0322409007	Yes	17W071 WHITE PINE RD, BENSENVILLE IL 60106	BIS, TOMASZ & E GWOZOW	7/24/2018
0322409006	Yes	17W091 WHITE PINE RD, BENSENVILLE IL 60106	PAULUS, CHRISTINA S	7/24/2018
0322411017	Yes	4N150 BRIAR LN, BENSENVILLE IL 60106	ROY, WILLIAM	7/24/2018
0323301014	Yes	4N324 RIDGEWOOD AVE, BENSENVILLE IL 60106	BRUNNER, MARY LOU	7/24/2018
0323307006	Yes	4N195 HAWTHORNE AVE, BENSENVILLE IL 60106	WILLIAMS, BILL F	7/24/2018
0323303008	Yes	16W604 WHITE PINES RD, BENSENVILLE IL 60106	ADAMCZYK, JAMES M	7/24/2018
0322216006	Yes	4N410 BRIAR LN, BENSENVILLE IL 60106	BALZANTO, JOSEPH & P M	7/24/2018
0322409002	Yes	17W151 WHITE PINE RD, BENSENVILLE IL 60106	WILLIAMS, JERRY & CAROL	7/24/2018
0323121002	Yes	4N401 RIDGEWOOD AVE, BENSENVILLE IL 60106	KOVICH, JEFFREY & SARA	7/24/2018
0323307015	Yes	4N180 CHURCH RD, BENSENVILLE IL 60106	GRADEI, ALAN R	7/24/2018
0323117020	Yes	16W604 CREST AVE, BENSENVILLE IL 60106	NORTON, C & K HARTMANN	7/24/2018
0323300002	Yes	4N385 BRIAR LN, BENSENVILLE IL 60106	DUZINSKAS, RICHARD & J	7/24/2018
0322409025	Yes	17W050 WOODLAND AVE, BENSENVILLE IL 60106	MEDINA, RICHARD & CHERYL	7/24/2018
0322409026	Yes	17W050 WOODLAND AVE, BENSENVILLE IL 60106	MEDINA, RICHARD & CHERYL	7/24/2018

Amit Thakkar,
Director of Finance



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Bensenville to White Pines residents: Pay property taxes, or pay doubled water bill



Robert Sanchez

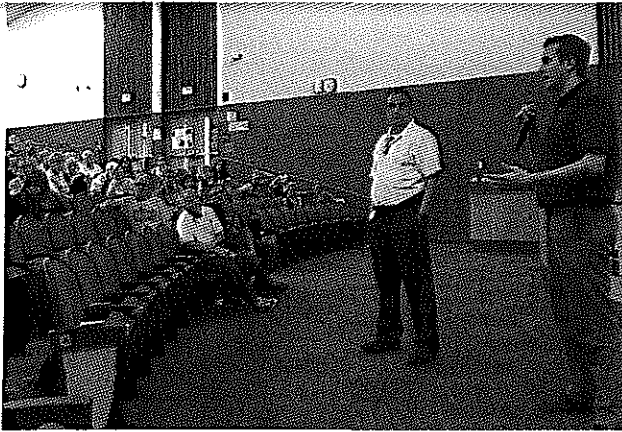
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Bensenville Village Manager Evan Summers, right, and Village President Frank DeSimone speak to a crowd of White Pines residents on Tuesday to explain the village's plan to replace the neighborhood's aging water system.

(Robert Sanchez | Staff Photographer)

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(<http://dailyherald.com/mphoto/2010/07/29/white-pines-water-system-replacement/>)

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More than 140 residents attended a Tuesday night meeting in Bensenville to learn about the village's plan to replace the aging water system in the White Pines neighborhood.

(Robert Sanchez | Staff Photographer)

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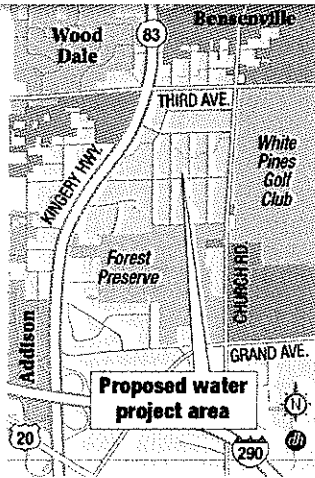
Roughly three years after residents in a neighborhood near Bensenville

rejected an annexation proposal to get a new water delivery system, village officials say they no longer can afford to postpone the project.

Bensenville officials this week informed White Pines residents that an estimated \$7 million project to replace their subdivision's aging water system is expected to begin next year. To fund the work, White Pines property owners have two choices: voluntarily annex and pay for it through property taxes over a 20-year period, or remain separate and pay a higher surcharge that could nearly double their water bill.

"The big difference between this plan and previous plans is this project is going to happen," Village Manager Evan Summers told more than 140 residents during a Tuesday night meeting at Blackhawk Middle School. "It's just a matter of how you want to pay for it. The village is committed to take the project on."

White Pines has been staunchly independent since its founding in the 1940s, but the neighborhood of roughly 280 homes gets Lake Michigan water through Bensenville.



Village officials say the White Pines water system, which includes decades-old pipes, is obsolete. In addition to frequent main breaks, the system produces substandard water pressure to combat fires.

But a December 2014 proposal by the village to replace the system never materialized because residents resisted annexation and questioned the cost estimate.

The residents have tried to persuade DuPage County or a private company to replace the system and supply them with water, but DuPage officials say the county plan would cost more than Bensenville's proposal.

In the meantime, village officials say the water system is fragile. Just last month, a series of 16 water main breaks in one weekend cost the village more than \$60,000 to repair.

Village President Frank DeSimone said White Pines residents asked him to tackle the issue after he was elected last year.

He said village officials spent that time working to come up with a fair and equitable solution.

"We're not hiding anything," he said.

"We're not twisting any numbers."

The village's plan is to use roughly \$900,000 it collected from a surcharge that White Pines residents have been paying on their water bills and to borrow the remaining \$6.1 million for the project from the Illinois Environmental Protection Agency.

If White Pines residents agree to become Bensenville taxpayers, the property tax dollars they pay to the village would be used to help repay the loan over 20 years.

Residents who refuse to annex, or who can't because their properties aren't contiguous with the village, will have a second option: Bensenville would increase the surcharge for their combined water and sewer bill.

DeSimone said that's what would be needed to pay for the \$7 million project.

The average household uses 5,000 gallons of water every month and the average Bensenville resident pays \$102.45 a month.

The typical White Pines homeowner pays Bensenville \$153.68 a month for the same amount of water.

If the project is only funded with water and sewer charges, the average monthly bill in White Pines would increase to \$281.74.

"We recognize this is high," Summers said.

If the White Pines neighborhood is annexed into Bensenville, it would increase the residential tax base for the village, which lost hundreds of homes to O'Hare International Airport expansion.

Summers said previous attempts to find an alternative to fix the White Pines water system haven't panned out. He said the village plan "is the best way."

"We are your water supplier for White Pines," he said. "At the end of the day, I have a legal obligation to provide you clean water. That system no longer works."

Homeowners have several months to decide whether to annex. Meanwhile, the village is planning to apply for the IEPA loan in the fall.

"Once we get the loan, the project is going to start," DeSimone said.

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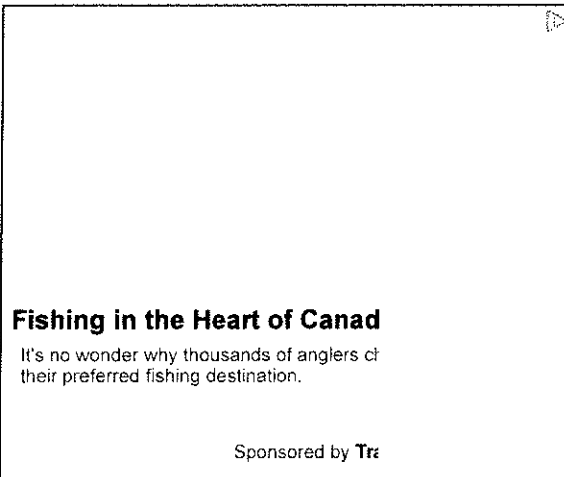
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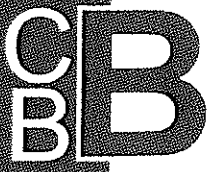
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May 2, 2019

Illinois Environmental Protection Agency
1021 North Grand Avenue East
PO Box 19276
Springfield, IL 62794

Attention: **Chris Nifong, Project Manager**

Subject: **Bensenville – L1704402 (White Pines Water Main Replacement)
April 2019 Facility Plan Review – Comment Response**

Dear Mr. Nifong:

The enclosed submittal has been revised per the Facility Plan review comments received in the letter dated April 19, 2019 for the subject project.

Comment 1: Page 3 of the planning report indicates the project will identify and replace lead water services in the project area. Have the water services being replaced been identified as being lead service lines? Please note that lead service line replacement work currently qualifies for additional IEPA Loan Program incentives. Bensenville will need to identify and track costs associated with lead service line replacements to qualify for the incentives. Please explain how this will be done.

Response 1: The Village has performed potholes of existing services at select locations within the project limits and has yet to encounter a lead service on the public or private side. Therefore, very few or no lead services are anticipated to be encountered during the project construction. However, the Village remains committed to removing any lead services encountered to the house.

Comment 2: The Preliminary Estimate of Cost (Exhibit 6) indicates that the project will include construction of 812 feet of 6-inch diameter water main. However, the planning report does not mention construction of 6-inch water main and the proposed project map (Exhibit 5) shows that only 8-inch diameter water main is being constructed. Please explain whether 6-inch water main is being constructed and revise Exhibit 5, if necessary.

Response 2: The 6-inch diameter water main included in the cost estimate is solely associated with the proposed fire hydrant leads. All proposed distribution main will be 8-inch.

Comment 3: For all proposed construction areas, please provide records of consultation from the Illinois Department of Natural Resources (IDNR) to document compliance with Illinois Endangered Species Act (Part 1075) and the Wetlands Protection Act (Part 1090) as requested by number 2) of the IEPA Loan Applicant Environmental Checklist. The 11-1-18 Eco-CAT results and 11-14-18 IDNR follow up letter do not include evaluation results for Part 1090 (wetlands review). Please provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

Response 3: CBBEL contacted IDNR upon to receiving IEPA's comment letter and confirmed that there was a miscommunication that resulted in the Wetland Consultation (Part 1090) not being prepared or terminated. IDNR subsequently issued a revised letter (enclosed) terminating both Part 1075 and 1090 of the consultation. This letter has been incorporated into the Planning Report.

Additionally, the recommended protective measures (construction barrier and silt fence) to prevent adverse effects to nearby natural habitat will be incorporated into the contract plans and specifications.

Comment 4: Because part of the project includes construction in or near a stream bank, floodway and/or wetland the project may require a permit from the Illinois Department of Natural Resources (IDNR) Office of Water Resources (OWR) to document compliance with the Illinois Lakes, Rivers, and Streams Act and Section 404 of the Federal Clean Water Act as requested by number 3) of the IEPA Loan Applicant Environmental Checklist. The previous planning report included comments, recommendations, and Regional Permit No. 3 from the OWR. However, the 2019 planning report does not include this information or documentation that the previous IDNR review is no longer valid. Please submit the project information to IDNR OWR, provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

Response 4: There are no floodplain impacts anticipated with this project, as the work referenced in the Planning Report near the intersection of 3rd Avenue and Church Avenue

is no longer proposed. The "Impacts to Floodplains" section on Page 12 of the Planning Report has been revised accordingly.

Comment 5: Because part of the project apparently includes construction in or near a stream bank, floodway and/or wetland, please provide records of consultation from the U.S. Army Corps of Engineers as indicated by number 3) of the IEPA Loan Applicant Environmental Checklist. Please provide a copy of all correspondence between the Village of Bensenville and U.S. Army Corps of Engineers, any permits, conditions, or recommendations issued by the Corps and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding specifications.

Response 5: No construction is proposed within or near a streambank, floodway and/or wetland. Please see Response 3 related to IDNR Wetland Consultation (Part 1090) termination.

Comment 6: Please provide a copy of the IEPA construction permit for the project or indicate the status of the permit application.

Response 6: We anticipate that pre-final plans and specifications will be submitted to IEPA for construction permit review in June 2019. This submittal will be coordinated with Chris Nifong to ensure it is reviewed by the proper IEPA staff in conjunction with the processing of the loan.

Comment 7: Section 662.210 d) of the IEPA PWS loan program rules allows projects a 0.2% environmental discount reduction to the standard loan interest rate, if at least 50% of eligible project costs fund any of the eligible categories: green infrastructure, lowering water demand, energy reduction, and removal or replacement of lead water mains or service lines. If you believe the project meets the environmental discount criteria, please provide a letter signed by a P.E. that explains how at least 50% of the IEPA loan eligible project costs are to fund any of the listed qualifying components.

Response 7: The Village's project does not meet the criteria that 50% of eligible costs fall under the categories listed above, so the project is not eligible for the environmental discount reduction.

Comment 8: It appears that this project will qualify for a thirty-year loan repayment period based on the life expectancy for transmission and distribution system pipe, and assuming Bensenville qualifies for the Small

Community interest rate. Please indicate if Bensenville wants to use a 30-year loan repayment period for this project.

Response 8: The Village wishes to maintain a 20-year loan term for this project.

Please feel free to contact me with any questions or requests for additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Welch', written in a cursive style.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design

Enclosures as Noted

From: Mehul Patel
Sent: Tuesday, May 7, 2019 10:26 AM
To: Bryan Welch; Joseph Caracci
Cc: Alex Schaefer
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab
Attachments: Pre-Final Comment 042919.pdf

Bryan,

Attached please find the pre-final review comments. Let me know if you have any questions.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, April 4, 2019 2:31 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Hi Joe/Mehul,

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The private water service work will be designed and incorporated into the plan set once the aerial survey has been completed and processed (anticipated late April).

Cost Estimate

You'll see that our construction cost estimate is approximately \$500k higher than what you last saw in January. This is due to the introduction of the following into the estimate:

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- Contingency built into various quantities for flexibility during construction: \$219,000

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Please let me know if you have any questions or need any additional information. I'm happy to sit down with you to discuss any aspects of the project in more detail, either prior to or after your review. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
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From: Mehul Patel
Sent: Thursday, May 2, 2019 1:13 PM
To: Bryan Welch
Cc: Joseph Caracci
Subject: RE: White Pines Update

Bryan,

Please see my responses in red below.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 1, 2019 3:28 PM
To: Mehul Patel <MPatel@bensenville.il.us>
Cc: Joseph Caracci <JCaracci@bensenville.il.us>
Subject: White Pines Update

Hi Mehul,

Hope all is well. Just wanted to touch base to update you on a couple of things and to see where a few items are at on your end:

Update:

- I discussed the IEPA planning comments with Joe yesterday. All are minor and we will have a draft comment response letter to you guys this week.
- Processing of the drone survey should be complete this week. Once we have that, we will start on the pre-final plans for the private service improvements.
- Our plan is to submit the IEPA loan application after pre-final plans for both public and private work are complete, so that we can include current costs based on the pre-final engineering.
- Per Joe's request, CBBEL will notify BP that they do not plan to pothole BP's pipeline and if BP does not pothole during the design phase, the Village's contractor will be required to pothole as part of the construction effort.

Checking on Status:

- Has the Village been able to obtain any info from DWC on the depth of their main on Church at our proposed crossings? The best available information DWC can provide is the as-builts we have previously provided to CBBEL.
- Does the Village plan to pothole any lead services, or based on the potholing done to date, assume that very few or no lead services will be encountered? Our intent was to pothole the services on the streets with existing mains in the ROW because the machinery will not be able to reach the backyards. Based on the results to date, I'd assume the services are copper. For those services that will be re-routed to the front will be mostly copper until we connect it to the existing service closer to the home. I'd guess we'd be making the connection within 5-feet of the building to whatever material it is which will make the service material copper from main all the way to the building. I believe that should satisfy the IEPA criteria.
- Has the Village made any progress on identifying meter locations of residences required services to be moved from the rear yard to the front yard? We've spent time trying to obtain meter location information from Sensus. They finally gave us the information this week. Our GIS analyst was able to analyze the information yesterday. She said that information is no different than what we already had on record. Unfortunately, that doesn't help us. I think our only option available to knock on doors and identify the

meter location. This would be time consuming and in certain cases very contested. I'm sitting down with Max this afternoon to see how quickly we can fit this into our schedule.

Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, May 7, 2019 1:25 PM
To: Mehul Patel; Joseph Caracci
Cc: Alex Schaefer
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Thanks, Mehul. Alex and I will review your comments this week and maybe we can schedule a call for next week to discuss. I did a cursory review and don't see any significant issues.

We are getting the drone survey for the rear yards back this week and will start work on the private service design, so that we can catch that effort up to where we are with the public improvements that were shown on the plans you reviewed.

Thanks.

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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Tuesday, May 7, 2019 10:26 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Bryan,

Attached please find the pre-final review comments. Let me know if you have any questions.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, April 4, 2019 2:31 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Hi Joe/Mehul,

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Bryan Welch, PE

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, May 7, 2019 1:17 PM
To: Joseph Caracci; Mehul Patel
Subject: RE: White Pines Planning Report - Draft Comment Response to IEPA

Thanks, Joe. I'll plan on resubmitting to IEPA this week. Going to send both via email to Chris Nifong and via snail mail. Thanks.

Bryan Welch, PE
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From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, May 7, 2019 9:36 AM
To: Bryan Welch <bwelch@cbbel.com>; Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: White Pines Planning Report - Draft Comment Response to IEPA

Looks good to me.

Joe

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 02, 2019 10:10 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: White Pines Planning Report - Draft Comment Response to IEPA

Hi Joe/Mehul,

Attached is the draft comment response letter to IEPA, along with an updated version of the full Planning Report that incorporates the minor revisions referenced in the letter. Please review and let me know if you have any comments. Once I get your OK, I'll submit to back to Chris Nifong. Thanks.

Bryan Welch, PE
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From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, May 7, 2019 1:29 PM
To: Mehul Patel; Joseph Caracci
Cc: Alex Schaefer
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Hi Mehul,

One thing I wanted to clarify. We are going to get our private service improvement sheets set up, but we will not really be able to design the route of any rear yard services to the front yard until it is known where the services enter each residence. I know you're working on it, I just wanted to make sure we were all on the same page. Thanks.

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From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Tuesday, May 7, 2019 10:26 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Bryan,

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Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, April 4, 2019 2:31 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

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Bryan Welch, PE

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From: Mehul Patel
Sent: Tuesday, May 7, 2019 3:12 PM
To: Bryan Welch; Joseph Caracci
Cc: Alex Schaefer
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab
Attachments: Letter - Resident notification of meter and line location- 050619.docx

Bryan,

We are sending the attached letter out in the mail this week and hoping to put one or two techs out on the locating starting next week. I don't expect a lot of cooperation from the resident but we will do the best we can. As we get the info, we will feed it to you so you can continue the service designs.

Mehul T. Patel, P.E., CFM
Assistant Director of Public Works
Village of Bensenville
630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, May 7, 2019 1:29 PM
To: Mehul Patel <MPatel@bensenville.il.us>; Joseph Caracci <JCaracci@bensenville.il.us>
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12 South Center Street
Bensenville, IL 60006

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May 6, 2019

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Dear White Pines Resident,

As you are aware, the Village of Bensenville has begun the design engineering phase of the White Pines Water System Replacement Project. As part of the project, many residents within the subdivision will have their water services transferred from the old system in the rear yards to the new system in the public right-of-way in front of your homes. This process will require careful planning in order to find the best and least disruptive path to install the new service line.

In an effort to put forth an accurate water service design for each individual home, it is necessary for the Village to identify the location of the existing service where it comes into the house. This information will allow the designers to identify the best location for the proposed water service as it comes from the front yard to connect to the existing water service on the back or side of the house. This will also allow the designers to account for the disruptions along the way and how to best restore it.

There are two way to identify the location of the existing service.

- 1) Line location in rear yards outside of the home which will be the preferred method.
- 2) If necessary, identify the meter location in the house which will require staff to enter the homes. Staff will knock on the doors to access the location of the meter.

Currently, we anticipate this exercise is necessary for all the homes that have their existing service coming off of the watermain located in the backyards. Over the next two to three weeks, you may notice the Village staff performing some line locations as well as trying to identify where the water meter is located in the house.

If you have any questions regarding the process, please feel free to contact Director of Public Works Joe Caracci at (630) 350-3435. We thank you in advance for your understanding and cooperation.

Respectfully,

Joseph M. Caracci, P.E.
Director of Public Works

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 8, 2019 7:47 AM
To: Nifong, Chris
Cc: Joseph Caracci; Mehul Patel
Subject: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)
Attachments: CR Nifong Planning Report Comment Response_2019_0508.pdf; White Pines Report_2019_0508_As Resubmitted to IEPA.pdf

Hi Chris,

On behalf of the Village of Bensenville, CBBEL is submitting the attached revised Planning Report for L174402 (White Pines Water Main). This report has been revised based on comments received from you dated April 19, 2019. A comment disposition letter is also attached.

We will be mailing the comment disposition letter and 2 hardcopies of the revised Planning Report to your attention for approval. Please let me know if you have any questions or need anything else. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

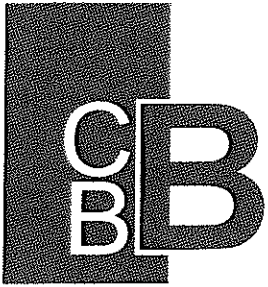
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

May 8, 2019

Illinois Environmental Protection Agency
1021 North Grand Avenue East
PO Box 19276
Springfield, IL 62794

Attention: **Chris Nifong, Project Manager**

Subject: **Bensenville – L1704402 (White Pines Water Main Replacement)
April 2019 Facility Plan Review – Comment Response**

Dear Mr. Nifong:

The enclosed submittal has been revised per the Facility Plan review comments received in the letter dated April 19, 2019 for the subject project.

Comment 1: Page 3 of the planning report indicates the project will identify and replace lead water services in the project area. Have the water services being replaced been identified as being lead service lines? Please note that lead service line replacement work currently qualifies for additional IEPA Loan Program incentives. Bensenville will need to identify and track costs associated with lead service line replacements to qualify for the incentives. Please explain how this will be done.

Response 1: The Village has performed potholes of existing services at select locations within the project limits and has yet to encounter a lead service on the public or private side. Therefore, very few or no lead services are anticipated to be encountered during the project construction. However, the Village remains committed to removing any lead services encountered to the house.

Comment 2: The Preliminary Estimate of Cost (Exhibit 6) indicates that the project will include construction of 812 feet of 6-inch diameter water main. However, the planning report does not mention construction of 6-inch water main and the proposed project map (Exhibit 5) shows that only 8-inch diameter water main is being constructed. Please explain whether 6-inch water main is being constructed and revise Exhibit 5, if necessary.

Response 2: The 6-inch diameter water main included in the cost estimate is solely associated with the proposed fire hydrant leads. All proposed distribution main will be 8-inch.

Comment 3: For all proposed construction areas, please provide records of consultation from the Illinois Department of Natural Resources (IDNR) to document compliance with Illinois Endangered Species Act (Part 1075) and the Wetlands Protection Act (Part 1090) as requested by number 2) of the IEPA Loan Applicant Environmental Checklist. The 11-1-18 Eco-CAT results and 11-14-18 IDNR follow up letter do not include evaluation results for Part 1090 (wetlands review). Please provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

Response 3: CBBEL contacted IDNR upon to receiving IEPA's comment letter and confirmed that there was a miscommunication that resulted in the Wetland Consultation (Part 1090) not being prepared or terminated. IDNR subsequently issued a revised letter (enclosed) terminating both Part 1075 and 1090 of the consultation. This letter has been incorporated into the Planning Report.

Additionally, the recommended protective measures (construction barrier and silt fence) to prevent adverse effects to nearby natural habitat will be incorporated into the contract plans and specifications.

Comment 4: Because part of the project includes construction in or near a stream bank, floodway and/or wetland the project may require a permit from the Illinois Department of Natural Resources (IDNR) Office of Water Resources (OWR) to document compliance with the Illinois Lakes, Rivers, and Streams Act and Section 404 of the Federal Clean Water Act as requested by number 3) of the IEPA Loan Applicant Environmental Checklist. The previous planning report included comments, recommendations, and Regional Permit No. 3 from the OWR. However, the 2019 planning report does not include this information or documentation that the previous IDNR review is no longer valid. Please submit the project information to IDNR OWR, provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

Response 4: There are no floodplain impacts anticipated with this project, as the work referenced in the Planning Report near the intersection of 3rd Avenue and Church Avenue

is no longer proposed. The "Impacts to Floodplains" section on Page 12 of the Planning Report has been revised accordingly.

Comment 5: Because part of the project apparently includes construction in or near a stream bank, floodway and/or wetland, please provide records of consultation from the U.S. Army Corps of Engineers as indicated by number 3) of the IEPA Loan Applicant Environmental Checklist. Please provide a copy of all correspondence between the Village of Bensenville and U.S. Army Corps of Engineers, any permits, conditions, or recommendations issued by the Corps and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding specifications.

Response 5: No construction is proposed within or near a streambank, floodway and/or wetland. Please see Response 3 related to IDNR Wetland Consultation (Part 1090) termination.

Comment 6: Please provide a copy of the IEPA construction permit for the project or indicate the status of the permit application.

Response 6: We anticipate that pre-final plans and specifications will be submitted to IEPA for construction permit review in June 2019. This submittal will be coordinated with Chris Nifong to ensure it is reviewed by the proper IEPA staff in conjunction with the processing of the loan.

Comment 7: Section 662.210 d) of the IEPA PWS loan program rules allows projects a 0.2% environmental discount reduction to the standard loan interest rate, if at least 50% of eligible project costs fund any of the eligible categories: green infrastructure, lowering water demand, energy reduction, and removal or replacement of lead water mains or service lines. If you believe the project meets the environmental discount criteria, please provide a letter signed by a P.E. that explains how at least 50% of the IEPA loan eligible project costs are to fund any of the listed qualifying components.

Response 7: The Village's project does not meet the criteria that 50% of eligible costs fall under the categories listed above, so the project is not eligible for the environmental discount reduction.

Comment 8: It appears that this project will qualify for a thirty-year loan repayment period based on the life expectancy for transmission and distribution system pipe, and assuming Bensenville qualifies for the Small

Community interest rate. Please indicate if Bensenville wants to use a 30-year loan repayment period for this project.

Response 8: The Village wishes to maintain a 20-year loan term for this project.

Please feel free to contact me with any questions or requests for additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Welch', with a stylized, cursive script.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design

Enclosures as Noted

VILLAGE OF BENSENVILLE

WHITE PINES WATER MAIN REPLACEMENT PROJECT

PROJECT PLAN REPORT

IEPA No. L174402

prepared for

VILLAGE OF BENSENVILLE
12 South Center Street
Bensenville, IL 60106

May 2, 2019

(CBBEL PROJECT NO. 12-0433.00005)

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Tab 1

CHAPTER 1

INTRODUCTION

The existing water system of the Village of Bensenville (Village) has provided reliable water service to the Village and surrounding unincorporated neighborhoods for many years. However, due to the age and condition of the water system, there are facilities that need immediate rehabilitation/replacement in order to continue to provide an adequate and reliable water service to the community. This report focuses on replacement of the existing aging water main network within the unincorporated White Pines Area, which is served by the Village's water distribution system. In order to implement the much-needed water system improvements, the Village is seeking financial assistance from the Illinois Environmental Protection Agency's (IEPA) Public Water Supply Loan Program (PWSLP).

Project Area

The Village of Bensenville is located approximately 17 miles northwest of the Chicago Loop and immediately west of the Chicago O'Hare International Airport. The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville. Exhibit 1 shows a vicinity map of the Village of Bensenville. Exhibit 2 illustrates the existing water system within the White Pines Area.

Need for the Project

From available information, it is estimated that significant portions of the White Pines Area water system have been in service for well over 70 years. Although this portion of the water distribution system has provided an adequate level of service to the community over the years, it has deteriorated to the point of reaching the end of its useful service life. The water mains throughout the area experience extensive water main breaks, including 150+ breaks since 1986 (see Exhibit 3). The majority of the existing mains are located within the rear yards of residential homes, which makes access to repairs difficult and costly. Additionally, fire flow issues have been experienced at various locations within the area due to the age of the mains and their being undersized (primarily 6"-diameter). In fact, three homes in the subdivision have burned down in the last three years due in large part to insufficient fire flow availability. A newspaper article from the most recent fire, which occurred in June 2018, is included in Appendix E.

The water mains are being recommended for replacement due to their present state of deterioration, lack of accessibility for maintenance, high maintenance costs, inability to provide proper fire protection and being undersized based on current standards. The White Pines Water Main Replacement project (Project) is needed to:

- Relocate the water mains into public rights-of-way to provide better maintenance access
- Reduce the number of water main breaks and associated repair costs
- Reduce the amount of water loss due to leakage and breaks that result in lost revenues as well as additional pumping costs
- Abandon and replace lead services with copper services
- Provide adequate fire flows throughout the area
- Improve water pressure within the system
- Ensure an adequate, safe and reliable source of water to residents for years to come

Study Purpose and Scope

As previously outlined, there is an urgent need for this water main replacement project. After considering their options to finance the project, the Village has decided to apply for financial assistance from the IEPA PWSLP. The Safe Drinking Water Act (SDWA) Amendments of 1996 (Pub.L.104-182) authorize a Public Water Supply Loan Program (PWSLP) to assist public water systems to finance costs of infrastructure needed to achieve or maintain compliance with SDWA requirements and to protect public health objectives of the Act. Section 1452 authorizes the Administrator of the U.S. Environmental Protection Agency (USEPA) to award capitalization grants to states, which in turn can provide low cost loans and other types of assistance to eligible systems under certain conditions established for the program. The IEPA is the state agency that administers loans through the PWSLP.

One of the key elements of the Loan Application is the submittal of a Project Plan by the loan applicant for approval by the IEPA. The project plan is prepared in accordance with the planning requirements developed for the federal grants program. This report has been prepared to meet these planning requirements for eligibility to receive financial assistance through the IEPA PWSLP. A copy of the Funding Nomination Form as submitted to the IEPA in January 2019 is provided in Appendix A.

The scope of this project plan addresses the following major items:

- Identify the conditions and needs of the project and its service area.
- Evaluate feasible alternatives to address the needs of the project.
- Recommend a cost-effective project.
- Identify the environmental and financial impacts that might result from the construction of the recommended project.
- Develop an implementation schedule for construction of the recommended project.

CHAPTER 2

EXISTING AND FUTURE CONDITIONS

An understanding of the existing conditions of the area to be served and the existing water distribution facilities that service the area is essential in the proper planning of the project improvements. This chapter briefly describes the physical characteristics of the service area (Village of Bensenville and the White Pines Area) in terms of land use and population, and the existing water system, including the mains to be replaced.

Existing Land Use and Population – Village of Bensenville

The Village of Bensenville is located within the Chicago Metropolitan Area approximately 17 miles northwest of the Chicago Loop and directly west of the Chicago O'Hare International Airport as shown on Exhibit 1. The Village is bordered by Elk Grove Village on the north, Wood Dale on the West, Elmhurst on the South, Schiller Park to the northeast, and Franklin Park to the southeast.

In general, the area is essentially fully developed with residential dwellings and commercial and industrial enterprises; the northern third of the community is nearly all industrial in use. The Canadian Pacific Railroad has a rail line that bisects the community in an east-west direction and this same set of tracks is shared with METRA for commuter rail service. Three non-navigable waterways flow through the community from west to east: Tributaries to Willow Creek in the north, Silver Creek in the center, and Tributaries to the Addison Creek in the south. The routing of the planned Elgin O'Hare Expressway will cut through the northern third of the Village.

The current population of the area is estimated at 18,500 and has decreased in recent years due to the expansion of O'Hare Airport during its modernization program. Future population growth is anticipated to be limited as the area is essentially fully developed.

Existing Land Use and Population – White Pines Area

The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville as shown on Exhibit 1. The boundaries of the area are Illinois Route 83 on the west, Church Road on the east, Third Avenue on the north, and Forest View Road on the south.

The area is fully developed with residential dwellings. Tributaries to Addison Creek, a non-navigable waterway, flow through the area from the west to east near the north and south boundaries of the area.

The current population of the area is estimated at 750. Future population growth is anticipated to be very limited as the area is essentially fully developed.

Description of the Existing Water System – Bensenville

The Village of Bensenville currently receives potable Lake Michigan water from the DuPage Water Commission (DWC), which is supplied by the City of Chicago. The Village has one centralized reception point from the DWC at their reservoir facility located along Church Road north of Main Street. Due to the close proximity to the DWC main pumping facility and reservoir in Berkeley, the Village does not need to separately treat this source of water supply.

Existing Water System

The layout of the existing Village water system is shown on Exhibit 4. The solitary water supply to the system is provided by the connection to DWC Transmission Main which traverses along Church Road until it reaches the Canadian Pacific Railroad right-of-way between Main and Green Streets, and it turns westward to serve additional customers. The Village also maintains two deep wells as a source of emergency supply as well as having emergency interconnections with surrounding communities.

The water distribution system includes approximately 78 miles of water main in sizes ranging from 6 to 12 inches in diameter as summarized in Table 2.1.

Table 2.1: Water Distribution System

Watermain Size in Inches	Length In Feet
6	134,558
8	90,728
10	8,440
12	178,237
Total	411,963

The water system includes four existing storage facilities, two elevated water tanks, one ground storage reservoir, and one underground storage reservoir. The storage capacity of each of these facilities is provided in Table 2.2. The total system storage capacity is approximately 3.65 million gallons (MG). In the event that additional storage is needed in the short term, there is currently a surplus of storage capacity available within the DWC system and in the surrounding communities that could be obtained through existing interconnection of water systems.

Table 2.2: Water Storage Facilities

Water Storage Facility	Location
500,000 gallon Elevated Water Tank	Church Road, north of Main Street
500,000 gallon Elevated Water Tank	Belmont Avenue, West of York Road
1.9M gallon Underground Storage Reservoir	Church Road, north of Main Street
750,000 gallon Ground Storage Reservoir	Foster Avenue, west of Thomas Drive

Water Usage by Customer Base

The Village serves its current population of about 18,500 as well as an unincorporated population of 800. The service area is comprised of the area within its corporate boundaries and some adjoining unincorporated properties. There are approximately 3,928 residential water users, 434 commercial water users and 776 industrial water users within the customer base of the Village of Bensenville. In 2013, there were approximately 540 MG of water billed by the DWC. Average daily demand over the last four years averaged an estimated 1.48 MGD with peak daily demand estimated at 2.5 MGD. The industrial water users account for approximately 19.75% of the water demand, with the commercial usage representing about 13.0% of water demand. The Residential consumers represent about 64.0% of water demand with Municipal and Construction accounting for the remaining 3.25% of water demand.

Existing Water and Sewer Rate Structure

The current water and sewer rates for customers within the Village Corporate limits, as established by Ordinance 68-2017 and effective January 1, 2018, are summarized below. A copy of the Ordinance is provided in Appendix C.

Table 2.3: Existing Incorporated User Rate Structure

Charge	Rate	Charge	Rate
Water per 1000 Gallons		Sewer per 1000 Gallons	
- First 10000 Gal per mo	\$ 10.00	- First 10000 Gal per mo	\$ 8.49
- Over 10000 Gal per mo	\$ 12.00	- Over 10000 Gal per mo	\$ 10.00
		- Non-Metered (fixed fee)	\$ 76.41
Fixed Service Charge by Meter Size			
5/8" or 3/4"	\$ 10.00	1.0"	\$ 30.00
1.5"	\$ 60.00	2.0"	\$ 100.00
3.0"	\$ 180.00	4.0"	\$ 300.00
6.0"	\$ 600.00		
Senior Discount	(\$ 1.54)		
Industrial Pretreatment per 1000 Gallons			
- First 1000 Gal per mo	\$ 8.32		
- Over 1000 Gal per mo	\$ 1.28		

The current water and sewer rates for customers outside of the Village Corporate limits, as established by Ordinance 68-2017 and effective January 1, 2018, are summarized below. These rates are calculated at 150% of the incorporated rates.

Table 2.4: Existing Unincorporated User Rate Structure

Charge	Rate	Charge	Rate
Water per 1000 Gallons		Sewer per 1000 Gallons	
- First 10000 Gal per mo	\$ 15.00	- First 10000 Gal per mo	\$ 12.47
- Over 10000 Gal per mo	\$ 18.00	- Over 10000 Gal per mo	\$ 15.00
		- Non-Metered (fixed fee)	\$114.62
Fixed Service Charge by Meter Size			
5/8" or 3/4"	\$ 15.00	1.0"	\$ 45.00
1.5"	\$ 90.00	2.0"	\$ 150.00
3.0"	\$ 270.00	4.0"	\$ 450.00
6.0"	\$ 900.00		
Senior Discount	\$ 0.00		
Industrial Pretreatment per 1000 Gallons			
- First 1000 Gal per mo	\$ 12.48		
- Over 1000 Gal per mo	\$ 1.92		

Description of the Existing Water Main System – White Pines

The area known as the White Pines Area was developed over 70 years ago as a residential golf development connected with the adjacent White Pines Golf Club (now under public ownership). The layout of the existing water system is shown on Exhibit 2. All existing water mains are 6" in diameter with the exception of 8"-diameter mains along Third Avenue and Briar Lane and a 12"-diameter main on White Pines Road. Many of the mains from the original development were constructed within public utility easement in rear yards. The mains have deteriorated over time, provide inadequate fire flow, require frequent and costly maintenance and are undersized by current standards. Due to repeated failures, the Village began collecting a surcharge from its unincorporated water users in 1998-1999 (discontinued in January 2015) to pay for the maintenance and replacement of the deteriorating mains. The surcharge has not been able to keep up with the maintenance requirements of the deteriorating system, so the Village has been required to focus their efforts on emergency maintenance within the White Pines Area, rather than preventative maintenance and replacement.

Although the age and condition of the remaining water mains is a concern and repairs are being completed over time when budget and financing allows, there is no known violation of federal or State public water supply regulations with regard to supply, treatment and distribution of potable water. Furthermore, there are no violations expected in the foreseeable future.

Existing Water Usage – White Pines Area

The Village's water customer base located within the White Pines Area consists of 267 users. An additional 13 parcels in the White Pines Area do not have a record of water service from the public main and are assumed to be on wells. These 267 users were billed for a total of 12.75 million gallons of water in 2017. Based on this information, the after usage for customers within the White Pines Area is just under 4,000 gallons per month.

Below is a summary of a current water and sewer bill assuming a typical consumption of 4,000 gallons per month.

Table 2.5: Existing Average Usage and Monthly Bill

	Unincorporated User Rate (Per 1000 Gallons)	Average Bill (4000 Gal per Month)
Water	\$ 15.00	\$60.00
Sewer	\$ 12.74	\$50.96
5 Year Fee	-	-
Fixed Fee	\$15.00	\$15.00
Total		\$125.96

Future Conditions – Bensenville

Future population growth in the Village is anticipated to be very limited, as the area is essentially fully developed. Therefore, future population growth over the 20-year planning period is anticipated to remain near its current level, around 18,500.

There is also no significant change expected in the mix of the customer base. The Industrial and Commercial customers are expected to account for about 33% of the water demand, with the Residential customers accounting for 64% of the water demand. The remaining 3% is anticipated for construction and municipal projects. The projected water usage is expected to remain fairly constant as well around the current average of 1.5 MGD.

Future Conditions – White Pines Area

Future population growth within the White Pines Area is anticipated to be very limited as the area is essentially fully developed. Therefore, future population growth over the 20-year planning period is anticipated to remain near its current level, around 750.

Also, there is no significant change expected in the mix of the customer base with residential customers making up all of the customer base and demand. The projected water usage is expected to remain fairly constant but increase slightly as existing lots may be redeveloped with newer, larger homes.

CHAPTER 3

PROPOSED PROJECT

The proposed project includes the abandonment of the existing water mains and the installation of approximately 17,000 feet of 8"-diameter water main, all located within public rights-of-way, as depicted in Exhibit 5. Due to the presence of existing mains in the rear yards, this project would include replacing existing services in rear yards with new copper services connected to the new mains in front yards, and a new curb stop at the public right-of-way line. All properties with rear yard water services would receive new copper water services and curb boxes that connect to the new mains constructed in the public right-of-way. Additionally, the Village has made a commitment to identify and abandon all existing lead water services and replace with new copper services between the public main and each home, including work on private property, as part of this project.

The overall scope of the water main replacement project includes the following items:

- Abandonment of the existing water main
- Abandonment of lead services and replacement with copper services
- Installation of new 8" water main
- Installation of new water valves and vaults
- Installation of new fire hydrants
- Installation of new copper water service lines and curb boxes to the limit of the public rights-of-way
- Relocation of private water services from existing rear yard mains to proposed b-boxes in the public rights-of-way
- All other items necessary to complete the work including water main fittings, steel casing pipe, trench backfill, sewer work in conflict with the new water main installation, and all restoration of parkways and pavement.

The project will be designed and constructed in accordance with 35 Ill. Adm. Code 651 through 654 and all other applicable laws and regulations and would restore the viability of the entire White Pines Area water system and provide a long-term, cost-effective and minimally-disruptive solution to maintaining a safe, reliable water source for the White Pines Area for decades to come.

The following sections of this chapter present a more detailed description of the proposed project, the environmental impacts of the project, and the financial impacts of the project, including capital costs and financing options.

Environmental Impacts

Primary Impacts

Long term impacts of the proposed project are all expected to be positive. Implementation of the project will ensure a safe, adequate and reliable source of water supply for the residents and improve the overall operation and reliability of the Village's water system.

Materials, man-hours, energy, etc. will be committed irretrievably to the construction of this project. However, no new purchase of land will be required, nor will any irreversible changes to the environment occur.

Anticipated short term impacts are all associated with project construction. These impacts include noise and dust which may have the potential to temporarily disturb residents and wildlife immediately within the construction area. There will be traffic interference during construction due to pipe installation within the street and construction staging. Construction projects will temporarily result in unsightly conditions, common to most construction projects, until restoration of affected areas is completed.

The following sections address other key environmental issues of concern.

Impacts to Rare/Endangered Plants and Animals: There are no endangered or threatened species within the area of the proposed project. The "EcoCAT" Report printout and additional correspondence from the Illinois Department of Natural Resources is included in Appendix B.

Disturbance to Historical, Archeological and Cultural Resources: The project site lies within an extensively developed residential area. The State Historical Preservation Office was contacted to ensure that no historical, archeological or cultural resources would be affected by the proposed plan (see Appendix B). Their response indicated that there are no historic properties affected by the proposed project.

Construction Near Wetlands: There are no wetlands within the project area. The "EcoCAT" Report printout from and additional correspondence from the IDNR Division of Resources Review is provided in Appendix B.

Impacts to Floodplains: No impacts to floodplains are anticipated.

Impacts to Air and Water Quality: The proposed project will not have any long-term adverse effects on air quality. There will be some temporary negative effects on the air quality during construction, when dust and fossil fuel exhaust is produced from construction activities.

Impacts to Recreational Areas or Prime Agricultural Land: The proposed improvements do not involve the development of areas designated for agricultural, open space or recreational uses.

A copy of the signed IEPA Loan Application Environmental Checklist has been provided in Appendix B.

Secondary Impacts

There will be no significant impacts on population growth or type of development within the surrounding area due to the proposed project. The project consists of the replacement of an existing facility. As previously discussed, the Village and the White Pines Area are basically fully developed and there has been no significant growth in population in recent years.

Steps to Minimize Negative Impacts

Negative impacts of the proposed construction include noise, dust, traffic disruption and temporary loss of access to local roads – all temporary impacts resulting from construction activities. Careful design and construction techniques will be used to minimize these unavoidable negative impacts, such as the directional boring of water mains and augering/drilling of the new water service lines.

In order to provide proper erosion control, the construction specifications will require that the contractor submit a proposed plan for excavation and erosion control methods for review by the engineer.

Construction noise originates primarily from engine and equipment noise. Engine noise is most effectively controlled by exhaust mufflers and to a lesser extent by intake silencers and engine enclosures. The construction specifications will require that all construction equipment engines be provided with adequate mufflers. Construction noise is obviously most objectionable between 7:00pm through 7:00am and all day on weekends. The construction specifications will require that construction activities be restricted to between 7:00am to 7:00pm each Monday through Friday, unless otherwise allowed by the Village.

Financial Impact

This section presents a preliminary assessment of the financial impact of the proposed project on the current user charges in the Village and the residents of the White Pines Area. The financial impact of the debt retirement cost of the proposed project will depend on the type of financing available and the terms that can be obtained.

Estimated Capital Costs

The detailed opinion of probable construction cost is provided in Exhibit 6 and summarized in Table 3.1. The total cost of the proposed project for the White Pines Water Main Replacement project is estimated at \$7,870,000, which includes an estimated construction cost of \$6,200,000. The estimated construction costs were developed based on recent bid prices for similar work within the Village of

Bensenville and surrounding communities. The total costs include allowances for engineering design, 8.0% for construction observation services and \$100,000 for legal fees. The cost estimate also include a loan contingency, as required by IEPA, in the amount of 10% of the estimated construction cost.

Through prior coordination with IEPA, the Village has confirmed that water service replacement work, as needed to connect to public mains to the roadway right-of-way in the front of each home and as needed to abandon and replace any lead services encountered, will be PWSLP-eligible costs. Therefore, it is anticipated that all construction costs included in the project cost estimate will be loan eligible.

“Soft” costs related to easement acquisition, such as title reports, plats and legals, negotiations, etc., have been estimated by the Village and included in the “Legal Fees” section of the estimate. Costs related to any actual easement purchase are not loan eligible. For this project, the Village anticipates all necessary temporary easements being donated to the Village, as each property owner will be allowed to choose whether to allow the Village’s contractor to perform the requisite work on their property or hire their own contractor to complete the work at their cost. Additional discussion on this issue can be found in the Project Implementation Strategy section at the end of this report.

Table 3.1: Estimated Capital Costs of Proposed Project

Item	Estimated Cost
Construction	\$6,200,000
Design Engineering	\$450,000
Construction Engineering	\$500,000
Legal Fees	\$100,000
Loan Contingency (10% of construction)	\$620,000
Total Estimated Project Cost	\$7,870,000

The Unincorporated Area Fund Balance held by the Village will be used to offset a portion of the project costs.

Table 3.2: Estimated Project Cost to be Financed

Item	Estimated Cost
Total Estimated Project Cost	\$7,870,000
Unincorporated Area Fund Balance	\$900,000
Estimated Project Cost to be Financed	\$6,970,000

Operation, Maintenance and Replacement (O, M & R) Costs

The staff of the Public Works Department of the Village of Bensenville is responsible for the routine O, M & R activities that are required for the normal operation of the

water and sewer utilities. In general, properly functioning water systems require minimal routine maintenance work that is generally limited to periodically exercising water valves and flushing fire hydrants. A new section of water main that is properly installed is not anticipated to have any significant maintenance issues over the first 20 years of its service life. Therefore, O, M & R costs for this Project are expected to be negligible over the 20-year planning period and are assumed to be included as part of the expenses of maintaining the normal staff positions and therefore excluded from the estimates provided herein.

The Certificate Regarding O&M is included in Appendix A.

Project Financing

There are currently two options for financing this project as follows:

- Loan or Bond obtained by the Village at a financial institution at market interest rates.
- Loan obtained through the IEPA Public Water Supply Loan Program.

The Village has submitted a Funding Nomination Form for loan assistance to the IEPA (Appendix A) to finance the cost of the White Pines Water Main Replacement project. Under the terms of the loan, the debt would be serviced over a 20-year period. The loan rate for loan agreements approved between July 1, 2018 and June 30, 2019 is 1.84%. For the purposes of this report, the PWSLP interest rate is assumed to be 2.21%.

Without the PWSLP loan, the Village would need to obtain a loan or general obligation bond through a financial institution at the current market interest rates. The anticipated range of annual interest rates for the Village is approximately between 4% and 5%. For the analysis presented herein, an annual interest rate of 5% per year was assumed as a likely rate to be obtained by the Village.

Table 3.3 presents the estimated annual payments to be borne by the Village under both loan scenarios for a 20-year repayment term.

Table 3.3: Estimated Annual Debt Service for Financing Options

	Loan or GO Bond	PWSLP Loan
Loan Amount	\$6,970,000	
Loan Rate	5.00%	2.21%
Loan Term	20 years	20 years
Annual Debt Service	\$559,291	\$434,950

With a 20-year repayment period the annual payments would be reduced by approximately 22% from \$559,291 to \$434,950 if an IEPA PWSLP loan is obtained to finance the project.

Sources for Servicing Loan Debt

The debt service for the IEPA loan will be funded through the adoption of new incorporated and unincorporated user water and sewer rate structures that are specific to the White Pines Area, since the proposed infrastructure improvements will only benefit that defined area. These new White Pines Area rate structures would create the two primary funding sources for the project. Each resident of the White Pines Area will be allowed to select the rate structure they desire, which is tied to whether they agree to annex (or pre-annex, as the case may be) into the Village. Any shortfall in debt services revenues will be funded by the Village with the current water/sewer fund revenue.

White Pines Incorporated User Rates (Annexation/Pre-Annexation)

If the property owner elects to annex/pre-annex into the Village, they will pay the standard Village incorporated water and sewer user rates, plus a \$50 fee per month for first 5 years. The \$50 per month surcharge ("Five Year Fee") and the additional property tax dollars to be received by the Village from the newly annexed parcels will be used towards the IEPA loan installments. The Five Year Fee shall be reduced to \$25 per month for senior citizens (age 65 and over).

White Pines Unincorporated User Rates (Remain Unincorporated)

If the property owner elects to remain unincorporated, the White Pines Unincorporated user rates will be set at 275% of the Village incorporated user rates upon approval of the IEPA loan.

Table 3.4: Proposed User Rate Structures – White Pines Area

White Pines Incorporated User Rates	Per 1000 Gal	Monthly Charge
Water	\$10.00	
Sewer	\$8.49	
Fixed Debt Service Charge (Flat Fee)		\$10.00
White Pines Debt Service*		\$50.00
White Pines Unincorporated User Rates	Per 1000 Gal	Monthly Charge
Water	\$27.50	
Sewer	\$23.35	
Fixed Debt Service Charge (Flat Fee)		\$27.50

* Charge reduced to \$25 for Senior Citizens. Charge to be eliminated after 60 months.

Debt Service Analysis for Most Conservative Scenario

From the perspective of generating revenue to service the IEPA loan debt, the most conservative (i.e. worst case) scenario would be that all residents choose to incorporate and pay White Pines Incorporated User Rates. Therefore, this scenario was used to analyze the ability of the proposed funding sources to pay the debt service for the proposed loan.

Table 3.5: Debt Service Analysis – 100% Annexation/Pre-Annexation

Property Tax Revenues	
Total Net Equalized Assessed Value	\$21,707,570
Current Village Tax Rate	0.9572%
Total New Property Tax Revenues	\$207,784
Debt Service Charge Revenues	
Standard (\$50/mo * 12 mo * 187 homes)	\$112,200
Seniors (\$25/mo * 12 mo * 80 homes)	\$24,000
Total Debt Service Charge Revenues	\$136,200
Total Revenues for Debt Service	\$343,984
Annual Loan Debt Service (Table 3.4)	\$434,950
Debit Service Shortfall	(\$90,966)

The anticipated Year 1 debt service shortfall of \$90,966 will be paid from the current water/sewer fund. It is anticipated that this shortfall will decrease in subsequent years as property tax revenues increase. Also, this "100% incorporated" scenario represents the most conservative possible scenarios. Regardless of actual revenues, the Village will be using its own revenues from the water/sewer fund to pay for any shortfall between the White Pines Area debt service revenues and the required IEPA loan debt service payments for the duration of the 20-year loan term.

Impact on Water and Sewer Charges

A comparison of the impact of collection of the proposed debt service revenues on the average monthly bill of a resident of the White Pines Area, based on the rate structure they select, is provided below.

Residents electing the Incorporated (Annexation/Pre-Annexation) rate structure will see a modest monthly bill increase of 6.4% over their current bill (Village unincorporated user rate). Once the Five Year Fee will be eliminated after 60 installments, the monthly bill would be reduced to that of all other Village incorporated users.

Residents electing the Unincorporated (Remain Unincorporated) rate structure will see a monthly bill increase of 183.3% over their current bill (Village unincorporated user rate).

Table 3.6: Average Monthly Bill Comparison

Average Monthly Bill (4,000 gallons per month)			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Water	\$60.00	\$40.00	\$110.00
Sewer	\$50.96	\$33.97	\$93.43
5 Year Fee*	-	\$50.00**	-
Fixed Fee	\$15.00	\$10.00	\$27.50
Total	\$125.96	\$133.97**	\$230.93

* Assumes Non-Senior Citizen Household ** Decreases by \$50 after Five Year Fee expires.

Impact on Property Taxes

A comparison of the impact of the proposed debt service approaches on the average annual property tax bill of a resident of the White Pines Area, based on the rate structure they select, is provided below. This calculation assumes an average assessed value of \$76,977 (equivalent to a \$230,931 home value).

Residents electing the Incorporated (Annexation/Pre-Annexation) rate structure will begin paying property taxes to the Village of Bensenville, as an incorporated parcel owner. Residents electing the Unincorporated (Remain Unincorporated) rate structure will continue not having a Village property tax responsibility.

Table 3.7: Average Annual Property Tax Comparison

Average Annual Property Taxes Paid to Village			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Property Taxes	\$0.00	\$736.82	\$0.00
Total	\$0.00	\$736.82	\$0.00

A summary of the impacts of changes to the user charges and property taxes for an average property owner in the White Pines Areas is summarized below:

Table 3.8: Summary of Average Monthly Costs

Summary of Monthly Costs			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Water and Sewer Fees*	\$125.96	\$133.97**	\$230.93
Property Taxes	\$0.00	\$61.40	\$0.00
Total	\$125.96	\$195.37**	\$230.93

* Assumes Non-Senior Citizen Household ** Decreases by \$50 after Five Year Fee expires.

Project Implementation

Project Implementation Schedule

The anticipated project schedule for implementation of the proposed project is outlined in Table 3.9. The schedule is governed by the IEPA PWSLP regulatory requirements and assumes that the proposed project presented in this Planning Report will be approved by the IEPA by July 2019. Plans will be submitted to IEPA for construction permit review and issuance in April 2019.

Table 3.9: Anticipated Project Implementation Schedule

Project Activity	Schedule
Submit Planning Report to IEPA	February 2019
Submit Plans & Specifications to the IEPA	April 2019
Submit Financial Information to IEPA	April 2019
IEPA Planning Approval	July 2019
Award Contract	January 2020
End Construction	November 2021

The local paper serving the Village of Bensenville is:

Daily Herald
155 E. Algonquin Road
Arlington Heights, IL 60005

Project Implementation Strategy

This project will involve construction on both public and private property. The work on any particular private property will be limited to abandoning lead services and constructing a new copper water service between the house and public right-of-way (for homes with existing lead or rear yard services). The Village plans to award the construction of both public and private work as part of a single construction contract.

The Village continues to work to obtain temporary construction easements for all private water service work. For parcels where temporary construction easements are granted, work on these parcels will be included in the Village's project and associated costs included in the IEPA loan.

For parcels where temporary construction easements are not granted, work on these parcels will not be included in the Village's project, although the public improvements in the public right-of-way adjacent to the parcel will be performed. The Village will provide dissenting parcel owners with a reasonable timeframe by which they must facilitate the construction of a new private water service on their property and legally connect it to the new water service box that is installed by the Village's project. The cost of this work will be borne by the individual property owner and not included in the IEPA loan, and a permit will be required from the Village in order to perform the

work. The timeframe that is anticipated to be allowed by the Village to facilitate private property work by others is 3 months.

Due to the reasonable expectation that some property owners will not grant temporary construction easements and therefore, a portion of the necessary private water service work will take place after the construction of the Village's project, it will be important to construct the new water system such that it does not impact the ability of the existing water system to continue operating, until such date that all properties are connected to the new system and the existing water system can be disconnected and abandoned.

Public Outreach

The Village acknowledges the sensitive nature of this project and has taken a proactive approach to gathering public input and disseminating information to the property owners impacted by this project. Below is a list of some of the events, meetings and correspondences that have been extended to property owners.

- The Village President, Village Manager and Village Finance Director held a White Pines Neighborhood Meeting on July 24, 2018 to present the latest plan to the residents. A video of this Meeting can be found at <http://www.bensenville.il.us/980/WPWMR-Neighborhood-Meeting-Video>. Representatives from 92 of the households within White Pines attended the Meeting (a list of those in attendance is included in Appendix E). Each household in attendance was given a packet that was specific to each resident's past tax bills and past water usage and illustrated the anticipated impacts of the proposed plan on their finances.
- The Daily Herald published an article after the July 2018 Public Meeting was held. This article is included in Appendix E.
- The Village President, Village Manager, and Village Staff have conducted individual visits to each home within the White Pines subdivision to present, discuss and educate residents of the proposed plan. The team handed out the packets of information to the residents if they had not already received the packet at the Public Meeting.
- The Village Manager offered all residents an invitation for one-on-one meetings with staff to individually review and discuss their packets. These meetings could take place after hours to accommodate as many residents as possible. To date, 35 residents have met with the Village Manager to discuss their packets.
- In support of full disclosure and transparency, the Village continues to host a public website portal specifically for the White Pines projects so that all important documents can be shared. This site includes presentation materials, FAQs, interactive maps, Village Board Meeting minutes and links

to important documents and agreements.
<http://www.bensenville.il.us/973/White-Pines-Water-Main-Replacement-Portal>

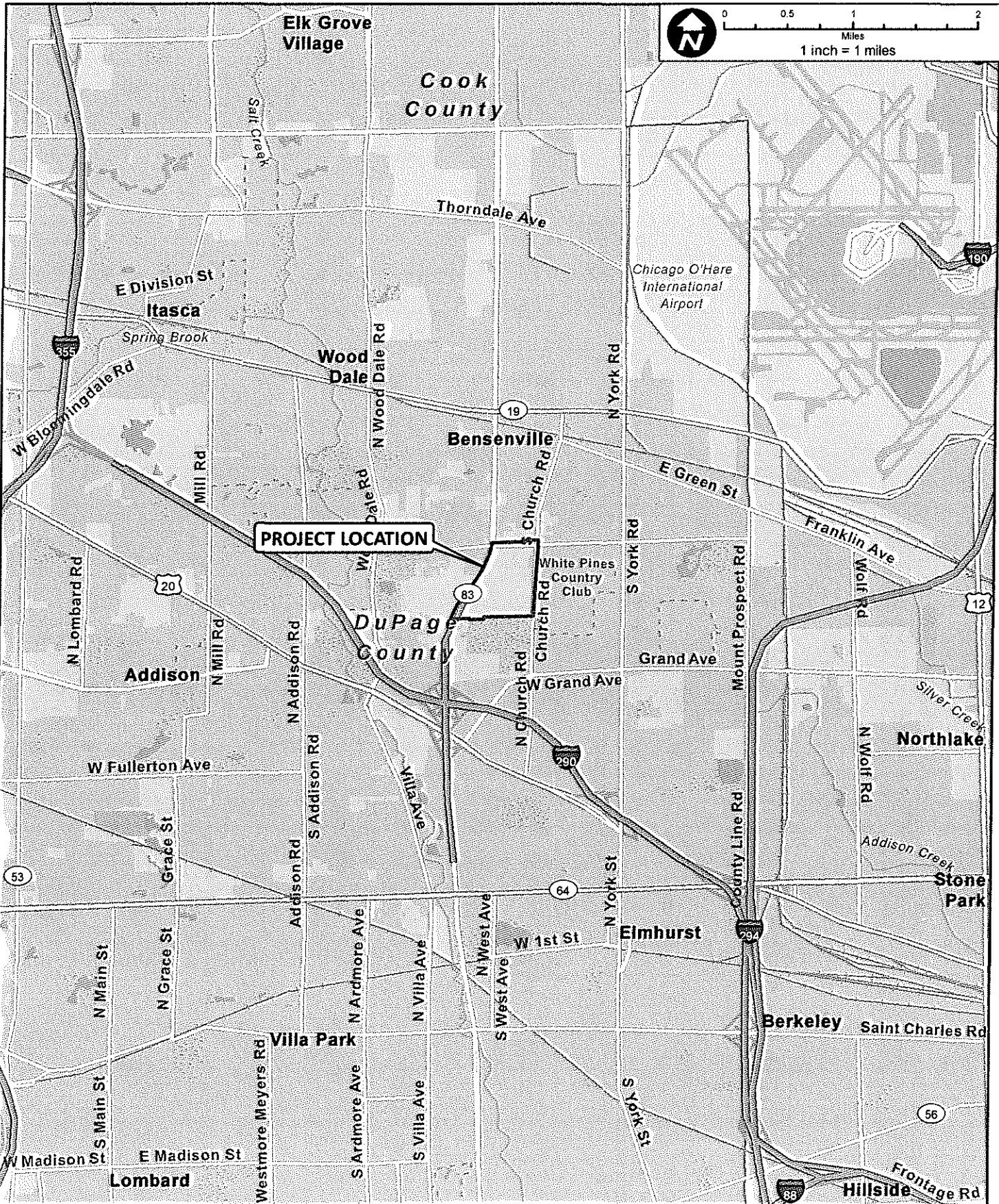
- The Village has received support from the community through an ad hoc resident group called the White Pines Community Alliance. This group of individuals was formed by residents who object to the views of the White Pines Civic Association, which has been a vocal opponent to the proposed project. It should be noted that neither the Alliance nor Association is a recognized corporate group, homeowners Association or legally recognized group.
- To date, 29 residents have signed annexation agreements (seven of which are currently contiguous to the Village) and are waiting formal Village Board approval.

The Village understands the importance of a strong Public Outreach effort for a project of this scope and magnitude that will directly affect the lives of so many residents. They also understand that unanimous concurrence with the scope, impacts and costs of this project is extremely unlikely, and believe that the historical opposition from residents originated from a vocal minority of the subdivision. During the individual meetings with residents, a common theme stated to the Village was they have heard so many different versions of the plan from neighbors, that they never really understood the full plan. Although the Village did not take a formal survey, they do believe that a majority of residents agree that improvements are necessary, now understand their options and are supportive of the proposed plan. Residents have also expressed satisfaction in the fact that they are being provided options that involve annexation or remaining unincorporated and understand the financing behind the plan.

The Village is committed to the health and safety of their water customers as well as the reliability of our water system, which is further demonstrated by their commitment to abandon and replace all lead services in the project area with copper services, including portions on private property. They are also committed to developing and maintaining a strong Public Outreach approach throughout the duration of the design and construction of the project.

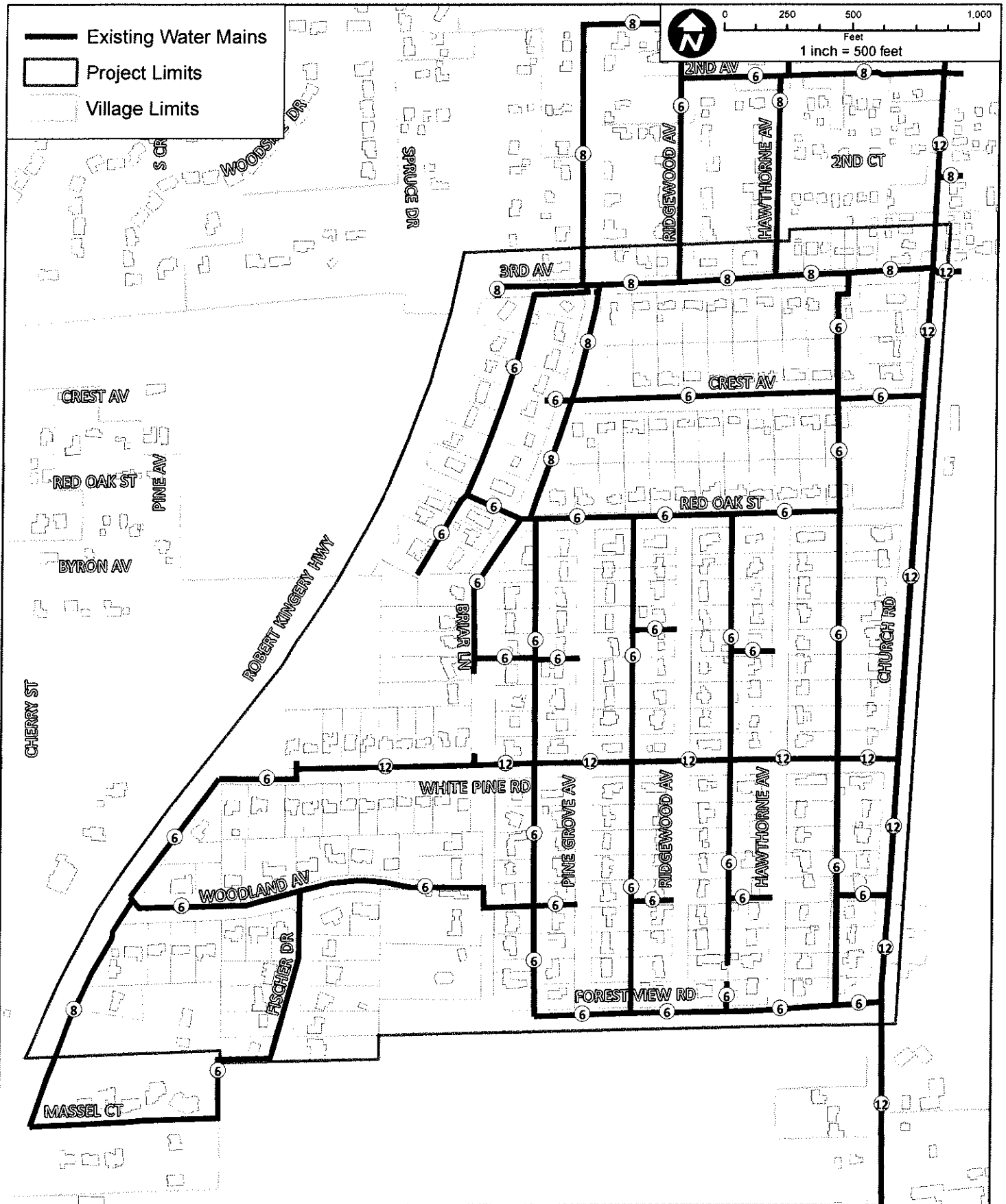
Tab 2

EXHIBITS



CLIENT: VILLAGE OF BENSENVILLE		TITLE: WHITE PINES AREA VICINITY MAP		PROJ. NO. 120433	
				DATE: 12-11-14	
				SHEET 1 OF 1	
				DRAWING NO.	
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500		DSGN: _____ DWN: _____ CHKD: _____ FILE: _____	SCALE: 1:63360 AUTHOR: DWALTERS PLOT DATE: 12/12/2014	EXH 1	

Path: N:\BENSENVILLE\120433\GIS\Exhibits\Vicinity Map.mxd



CLIENT:



**VILLAGE OF
BENSENVILLE**

TITLE:

**WHITE PINES AREA
EXISTING WATER MAINS**

PROJ. NO. 120433

DATE: 12-11-14

SHEET 1 OF 1

DRAWING NO.

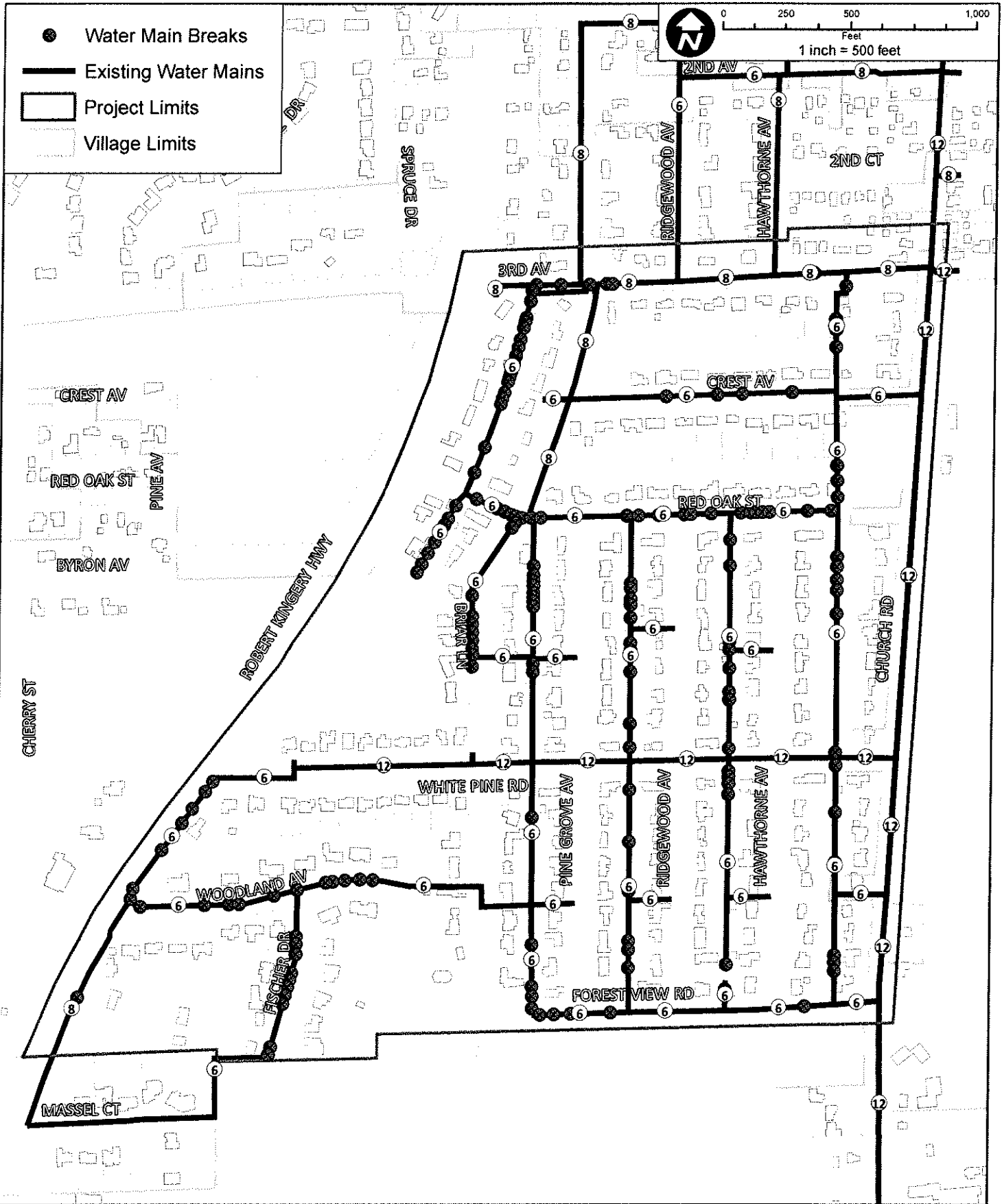
EXH 2



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W. Higgins Road, Suite 600 · Rosemont, Illinois 60018 · (847) 823-0500

DSGN.		SCALE:	1:6000
DWN.		AUTHOR:	DWALTERS
CHKD.		PLOT DATE:	12/12/2014
FILE:	Existing White Pines Water System		



Path: N:\BENSENVILLE\120433\GIS\Exhibits\Water Main Break Locations.mxd

CLIENT:



**VILLAGE OF
BENSENVILLE**

TITLE:

**WHITE PINES AREA
WATER MAIN BREAK LOCATIONS
1986-2013**

PROJ. NO. 120433

DATE: 12-11-14

SHEET 1 OF 1

DRAWING NO.

EXH 3



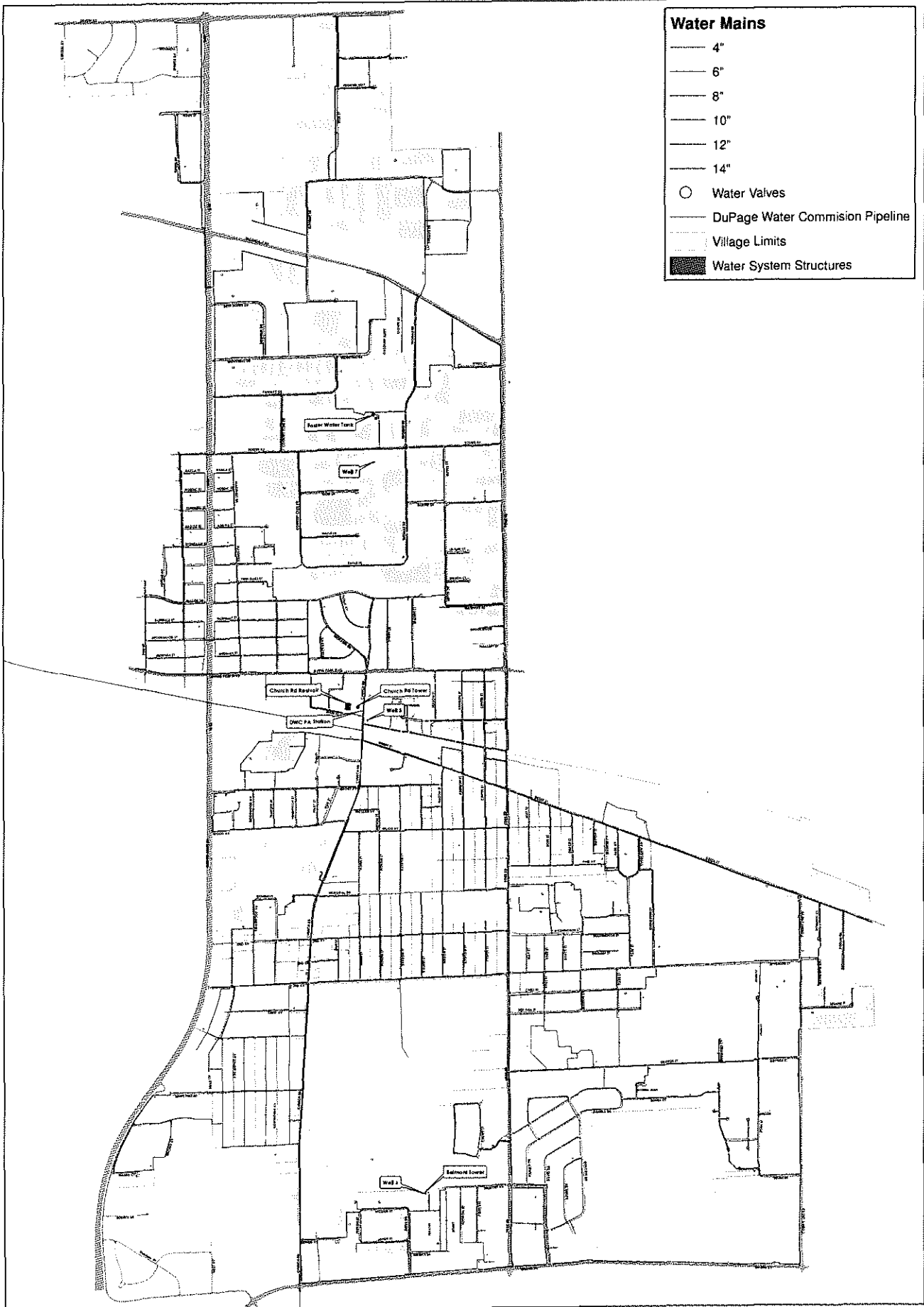
CHRISTOPHER B. BURKE ENGINEERING, LTD.

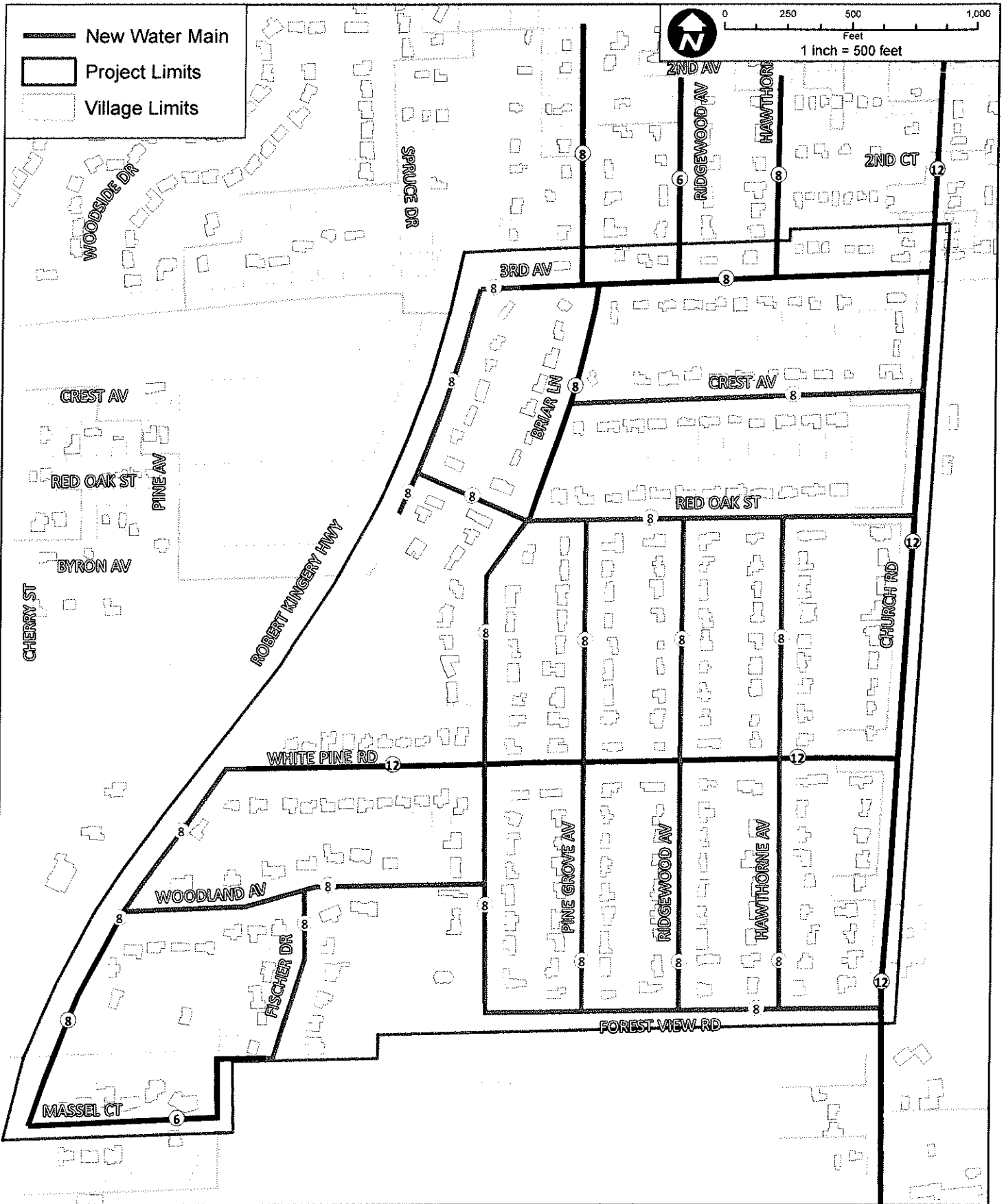
9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500

DSGN.		SCALE:	1"=6000
DWN.		AUTHOR:	DWALTERS
CHKD.		PLOT DATE:	1/8/2015
FILE:	Water Main Break Locations		

Village of Bensenville

Water System- Updated Fall 2014





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CLIENT:  VILLAGE OF BENSENVILLE	TITLE: WHITE PINES SUBDIVISION PROPOSED PROJECT	PROJ. NO. 120433
		DATE: 1-24-19
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500	DESIGN: DWN: CHKD: FILE:	SCALE: 1:6000 AUTHOR: DWALTERS PLOT DATE: 1/24/2019 Chosen Alternative
	DRAWING NO.	
	EXH 5	

EXHIBIT 6**White Pines Water System Improvements**

Village of Bensenville, Illinois

Preliminary Estimate of Cost

1/21/2019

Engineer's Opinion of Approximate Cost (Preliminary)

<u>Item</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost</u>
Trench Backfill	Cu Yd	13,365	\$45	\$601,425
DIWM, 6"	Foot	812	\$85	\$69,020
DIWM, 8"	Foot	16,635	\$95	\$1,580,325
DIWM, 8" (Directional Bore)	Foot	288	\$350	\$100,800
Valve in New Vault, 8"	Each	43	\$6,000	\$258,000
Valve in New Vault, 6"	Each	2	\$5,000	\$10,000
Valve in Existing Vault, 8"	Each	8	\$3,000	\$24,000
New Public Water Service or Service Replacement	Each	231	\$3,000	\$693,000
New Private Water Service or Service Replacement	Each	165	\$8,000	\$1,320,000
Fire Hydrant and Auxiliary Valve	Each	54	\$6,000	\$324,000
Pavement Patching, 12" Thick (IDOT)	Sq Yd	589	\$110	\$64,790
Pavement Patching	Sq Yd	9,909	\$55	\$544,995
Driveway Pavement Removal & Replacement	Sq Yd	836	\$60	\$50,160
Connection to Existing Water Main	Each	19	\$3,500	\$66,500
Landscape Restoration (Seeding)	Sq Yd	7,951	\$10	\$79,510
Erosion and Sediment Control (0.5%)	L Sum	1	\$28,933	\$28,933
Traffic Control (2.5%)	L Sum	1	\$145,386	\$145,386
Mobilization (4%)	L Sum	1	\$238,434	\$238,434
Construction Total				\$6,199,278
Design Engineering and Permitting:				\$437,324
Construction Engineering (8%):				\$495,942
Legal Fees:				\$100,000
Engineering, Permitting and Legal Total				\$1,033,266
Total Estimated Project Cost				\$7,232,544

Assumptions:

1. All costs in 2019 dollars.
2. Cost estimate does not include costs related to acquisition of easements.
3. Cost estimate does not include private utility relocation work.
4. Estimate does not include replacement of water mains on 3rd Avenue, Briar Lane (3rd Avenue to Red Oak), White Pines Road and Church Road.
5. Estimate does not include roadway resurfacing.

Tab 3

APPENDIX A



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Funding Nomination for Loan Assistance for Drinking Water Facilities Annual Filing Deadline: January 31

Agency Use Only:	Date Received: _____	Project Number: _____
	New App. _____	Renewal App. _____

1. Legal Name of Applicant: Village of Bensenville

2. Address:

717 E. Jefferson Street
Bensenville, IL 60106

3. Organizational Type:

- ☒ Unit of Local Government ☐ Not-for Profit Water Corporation
☐ Investor Owned Water Utility ☐ Mutually or Cooperatively Owned Water System

4. Location Information:

- a) County DuPage c) Illinois House District # 77
b) U.S. Congressional District # IL-5 d) Illinois Senate District # 39

5. Authorized Representative:

Name: Joseph Caracci, PE Title: Director of Public Works
Phone: 630-350-3435

6. Engineer:

Name: Bryan Welch, PE Firm: Christopher Burke Engineering

Address:

9575 W. Higgins Road
Suite 600
Rosemont, IL 60018

Phone: 847-823-0500

7. Facility Number 0434140

8. Reason for Project:

- ☐ A) Compliance Project
 ☐ 1) MCL Violation Parameter _____
 ☐ 2) Treatment Technique Parameter _____
 ☐ 3) Technical Policy Violation
☐ B) New Service Project
☒ C) Service Continuation Project

9. Number of Billed Customers 267

10. Population Served by Proposed Project 747

11. Project Description:

Project includes engineering and construction of the retirement of approximately 75-year-old 6" diameter mains located in rear yard easements and construction of new 8"-diameter ductile iron water main within existing street rights-of-way. Project shall also include construction of new water services from existing houses to the new mains and removal of all lead water services to the house, as well as new valves, fire hydrants and service boxes.

12. Cost Estimate \$7,000,000.00

13. Project Schedule:

Project Planning Submission Date Mar 1, 2019

Plan and Specification Submission Date May 31, 2019

Contract Award Date Feb 28, 2020

Completion of Construction Date Nov 30, 2021

Authorized Representative

Joseph M. Caracci

Date 1-8-19

Certificate Regarding O & M

Whereas, under the provisions of the State Revolving Loan Fund Regulations, it is required that Village of Bensenville, the governing body, provide assurance of efficient operation and maintenance of the public water supply facilities proposed under project L17-4402.

Therefore, be it resolved by Village of Bensenville, the governing body, hereby certifies that it has a properly certified operator and that the following training and documents have been provided for the operation and maintenance of the equipment and/or process units included in the project, and that applicable documents are available for Agency review;

1. Training pertaining to the proper operation and maintenance of the equipment and process units included in the project.
2. An operation and maintenance reference library which includes, but is not limited to, the following:
 - a. Manufacturer's literature, shop drawings and warranties, as well as a maintenance schedule for the equipment and process units included in the project;
 - b. The plans of record with valve indices for the equipment and process units included in the project.
3. Training pertaining to the general operation of public water facilities or distribution systems, consisting of an operator self-study course such as Water Treatment Plant Operations, Volumes I and II, or Small Water System Operation and Maintenance, or Water Distribution System Operation and Maintenance, California State University, Sacramento.

Joseph M. Caracci, Director of Public Works
Signature and Title of Authorized Representative

1-31-19
Date

APPENDIX B

IEPA Loan Applicant Environmental Checklist

Loan Applicant: Village of Bensenville

L17#: 174402

Checklist must be signed by loan applicant's Authorized Representative (not engineering consultant)
ALL loan applicants must provide items 1 and 2 below. Items 3-6 are specific to conditions of project.

1) National Historic Preservation Act, Section 106 sign-off:

Circle one: Attached OR Date requested _____

2) Provide record of consultation with Illinois Department of Natural Resources Office of Realty and Environmental Planning regarding compliance with Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act and Illinois Interagency Wetlands Protection Act.

Circle one: EcoCAT printout DNR Letter Date DNR consultation requested: 11/1/2018

OR Project is exempt from consultation per Title 17 Ill. Adm. Code Parts 1075 and 1090. If this is selected, an explanation must be attached. Exemption is rare. Check here if project is exempt _____

3) Yes X No Project involves construction in or near a stream bank (includes stream/river crossing), floodway and/or wetland.

IF YES: By signing below applicant certifies they will comply with the Rivers, Lakes & Streams Act.

IF YES: Comments from the Army Corps of Engineers are required.

Circle one: Attached OR Date requested _____

4) Yes X No Project involves conversion of prime agricultural land to other uses.

IF YES: Description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided in planning.

5) Yes X No Project includes growth resulting in more than a 30% reserve capacity in the present or proposed service.

IF YES: Prior to planning approval a detailed discussion in the planning documents must be provided documenting potential secondary impacts of the proposed project.

WASTEWATER PROJECTS ONLY

6) Yes ___ No Project is within jurisdiction of a designated Water Quality Management Agency such as Chicago Metropolitan Agency for Planning (CMAP), Greater Egypt Regional Planning & Development Commission (GERPDC) or Southwestern Illinois Planning Commission (SIPC).

IF YES to CMAP: IEPA will forward information to CMAP for comments. No further action is required.

IF YES to GERPDC or SIPC: Comments from the appropriate agency regarding the project, growth projections and Facility Planning Area (FPA) modifications (if applicable) are required.

Circle one: Attached OR Date requested _____

7) Yes ___ No A change in the Facility Planning Area (FPA) is proposed.

IF YES: Comments from Illinois Department of Agriculture regarding the FPA change are required.

Circle one: Attached OR Date requested _____

Specific contact information for the various offices and agencies which must be contacted, as well as the sources for further information, is detailed within the instruction guide for this checklist.

Signed: Joseph M. Caracci
Loan Applicant's Authorized Representative

Date: 1-31-19



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
www.dnr.illinois.gov

Bruce Rauner, Governor

Wayne A. Rosenthal, Director

DuPage County
Bensenville

PLEASE REFER TO: SHPO LOG #002110518

3rd Ave., Crest Ave., Red Oak St., Forest View Rd., White Pine Rd. Woodland Ave., Fischer Dr., Pine Grove Ave., Ridgewood Ave.,
Hawthorne Ave & Church Rd.

Section:23-Township:40N-Range:11E

CBBEL-120433, IEPA LOAN

Water main replacement

November 28, 2018

Thomas McArdle
Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018

Dear Mr. McArdle:

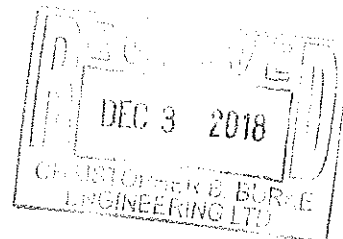
We have reviewed the documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two (2) years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you are an applicant, please submit a copy of this letter to the state or federal agency from which you obtain any permit, license, grant, or other assistance. If further assistance is needed contact Jeff Kruchten, Chief Archaeologist at 217/785-1279 or Jeffery.kruchten@illinois.gov.

Sincerely,

Robert F. Appleman
Deputy State Historic
Preservation Officer



Applicant: Burke Engineering
Contact: Thomas McArdle
Address: 9575 W. Higgins
Rosemont, IL 60018

IDNR Project Number: 1904561
Date: 11/01/2018
Alternate Number: 1507206

Project: Bensenville Water Mains
Address: Route 83 and White Pines Road, Bensenville

Description: Bensenville will be completing water main improvements.

Natural Resource Review Results

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Fischer Woods INAI Site
Wood Dale Grove INAI Site
Sedge (*Carex bromoides*)
Tuckerman's Sedge (*Carex tuckermani*)

An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: DuPage

Township, Range, Section:

40N, 11E, 22

40N, 11E, 23



IL Department of Natural Resources
Contact
Bradley Hayes
217-785-5500
Division of Ecosystems & Environment

Government Jurisdiction
U.S. Army Corps of Engineers

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

JB Pritzker, Governor

Colleen Callahan, Director

April 26, 2019

Thomas McArdle
Burke Engineering
9575 W. Higgins
Rosemont, IL 60018

RE: Bensenville Water Mains
Project Number(s): 1904561 [1507206]
County: DuPage

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

However, the Department recommends a construction barrier and silt fence be utilized to keep workers within the project site and to protect Fischer Woods INAI site.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Bradley Hayes
Division of Ecosystems and Environment
217-785-5500

APPENDIX C

**VILLAGE OF BENSENVILLE
12 S. CENTER STREET
BENSENVILLE, ILLINOIS 60106**

Ordinance No. 68-2017

**An Ordinance of the Village of Bensenville, DuPage and Cook Counties, Illinois
Amending Section 8-7-7 of Chapter Seven of Title Eight of the
Bensenville Village Code with Regard to Water and Sewer Rates**

**ADOPTED BY THE
VILLAGE BOARD OF TRUSTEES
OF THE
VILLAGE OF BENSENVILLE
THIS 12th DAY OF DECEMBER 2017**


Published in pamphlet form by authority of the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois this 13th day of December, 2017

STATE OF ILLINOIS)
COUNTIES OF COOK)
SS AND DUPAGE)

I, Corey Williamsen, do hereby certify that I am the duly appointed Deputy Village Clerk of the Village of Bensenville, DuPage and Cook Counties, Illinois, and as such officer, I am the keeper of the records and files of said Village; I do further certify that the foregoing constitutes a full, true and correct copy of Ordinance No. 68-2017 entitled an Ordinance of the Village of Bensenville, DuPage and Cook Counties, Illinois Amending Section 8-7-7 of Chapter Seven of Title Eight of the Bensenville Village Code with Regard to Water and Sewer Rates.

INWITNESS WHEREOF, I have hereunto affixed my official hand and seal on this 13th day of December, 2017.





Corey Williamsen
Deputy Village Clerk

ORDINANCE NO. 68-2017

**AN ORDINANCE OF THE VILLAGE OF BENSENVILLE, DUPAGE AND
COOK COUNTIES, ILLINOIS AMENDING SECTION 8-7-7 OF CHAPTER
SEVEN OF TITLE EIGHT OF THE BENSENVILLE VILLAGE CODE
WITH REGARD TO WATER AND SEWER RATES**

WHEREAS, the Village of Bensenville, DuPage and Cook Counties, Illinois (the "*Village*") is a duly organized and existing municipal corporation created under the provisions of the laws of the State of Illinois and under the provisions of the Illinois Municipal Code, as from time to time supplemented and amended; and

WHEREAS, pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*, the Village owns and operates sewer and water infrastructure and facilities (the "*System*") within and outside the corporate boundaries of the Village; and

WHEREAS, the Illinois Municipal Code further authorizes the Village to charge for the maintenance, use and operation of the System and to establish rates for that purpose; and

WHEREAS, in order to simplify the current rate structure, the debt service charge is being reclassified as a fixed charge and the capital recovery charge is being eliminated and incorporated into the base water and sewer charges; and

WHEREAS, the Village has carefully considered the operation, condition and maintenance of the System and the revenues and expenses associated therewith.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois, as follows:

Section 1. That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2. The Corporate Authorities find and determine that it is necessary and desirable to amend the Bensenville Village Code for the purpose set forth herein and that the adoption of this Ordinance is in the best interests of the Village.

Section 3. Section 8-7-7 ("*Rates*") of Chapter Seven ("*Water and Sewer Service Regulations*") of Title 8 ("*Public Ways and Property*") of the Bensenville Village Code, is hereby amended by deleting the following stricken language and adding the underlined language to read, as follows:

SECTION 8-7-7: RATES

A. Within the Corporate Limits: Effective January 1, ~~2017~~ 2018

	Meter Size (Inches)						
	5/8 or 3/4	1	1.5	2	3	4	6
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	\$6.85	\$6.85	\$6.85	\$6.85	\$6.85	\$6.85	\$6.85
Above 10,000 gallons per month (per 1,000 gallons)	7.88	7.88	7.88	7.88	7.88	7.88	7.88
Sewer charge:							
First 10,000 gallons per month (per 1,000 gallons)	5.42	5.42	5.42	5.42	5.42	5.42	5.42
Above 10,000 gallons per month (per 1,000 gallons)	6.22	6.22	6.22	6.22	6.22	6.22	6.22
Nonmetered account—fixed sewer fee	48.78	48.78	48.78	48.78	48.78	48.78	48.78
Fixed debt service charge:							
Water service fixed debt service fee	2.90	9.75	19.30	30.95	58.13	96.95	193.71
Sewer service fixed debt service fee	5.77	19.18	38.61	61.71	115.56	192.52	385.31

Capital recovery charge:							
Water capital recovery per 1,000 gallons	2.83	2.83	2.83	2.83	2.83	2.83	2.83
Sewer capital recovery per 1,000 gallons	3.07	3.07	3.07	3.07	3.07	3.07	3.07
Sewer capital recovery nonmetered (fixed)	27.63	27.63	27.63	27.63	27.63	27.63	27.63
Senior discount per month	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Industrial pretreatment:							
First 1,000 gallons per month (per 1,000 gallons)	8.32	8.32	8.32	8.32	8.32	8.32	8.32
Above 1,000 gallons per month (per 1,000 gallons)	1.28	1.28	1.28	1.28	1.28	1.28	1.28

	Meter Size (Inches)						
	<u>3/8 or 1/4</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>	<u>\$10.00</u>
Above 10,000 gallons per month (per 1,000 gallons)	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>	<u>12.00</u>
Sewer charge:							
First 10,000 gallons per month (per 1,000 gallons)	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>	<u>8.49</u>
Above 10,000 gallons per month (per 1,000 gallons)	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>	<u>10.00</u>
Nonmetered account - fixed sewer fee	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>	<u>76.41</u>
Fixed service charge:	<u>10.00</u>	<u>30.00</u>	<u>60.00</u>	<u>100.00</u>	<u>180.00</u>	<u>300.00</u>	<u>600.00</u>
Senior discount per month	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>	<u>1.54</u>
Industrial pretreatment:							
First 1,000 gallons per month (per 1,000 gallons)	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>	<u>8.32</u>
Above 1,000 gallons per month (per 1,000 gallons)	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>	<u>1.28</u>

B. Outside the Corporate Limits: Effective January 1, 2017 2018, one hundred fifty percent (150%) of the incorporated rates:

	Meter Size (Inches)						
	$\frac{5}{8}$ or $\frac{3}{4}$	1	1.5	2	3	4	6
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	\$10.28	\$10.28	\$10.28	\$10.28	\$10.28	\$10.28	\$10.28
Above 10,000 gallons per month (per 1,000 gallons)	11.82	11.82	11.82	11.82	11.82	11.82	11.82
Sewer charge:							
First 10,000 gallons per month (per 1,000 gallons)	8.13	8.13	8.13	8.13	8.13	8.13	8.13
Above 10,000 gallons per month (per 1,000 gallons)	9.33	9.33	9.33	9.33	9.33	9.33	9.33
Nonmetered account—fixed sewer fee	73.17	73.17	73.17	73.17	73.17	73.17	73.17
Fixed debt service charge:							
Water service fixed debt service fee	4.36	14.64	28.95	46.43	87.20	145.44	290.57
Sewer service fixed debt service fee	8.65	28.77	57.93	92.57	173.34	288.78	577.97
Capital recovery charge:							
Water capital recovery per 1,000 gallons	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Sewer capital recovery per 1,000 gallons	4.60	4.60	4.60	4.60	4.60	4.60	4.60
Sewer capital recovery nonmetered (fixed)	41.40	41.40	41.40	41.40	41.40	41.40	41.40
Industrial pretreatment:							
First 1,000 gallons per month (per 1,000 gallons)	12.48	12.48	12.48	12.48	12.48	12.48	12.48
Above 1,000 gallons per month (per 1,000 gallons)	1.92	1.92	1.92	1.92	1.92	1.92	1.92

	Meter Size (Inches)						
	$\frac{5}{8}$ or $\frac{3}{4}$	1	1.5	2	3	4	6
Water charge:							
First 10,000 gallons per month (per 1,000 gallons)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00

<u>Above 10,000 gallons per month (per 1,000 gallons)</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>	<u>18.00</u>
<u>Sewer charge:</u>							
<u>First 10,000 gallons per month (per 1,000 gallons)</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>	<u>12.74</u>
<u>Above 10,000 gallons per month (per 1,000 gallons)</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>	<u>15.00</u>
<u>Nonmetered account - fixed sewer fee</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>	<u>114.62</u>
<u>Fixed service charge:</u>	<u>15.00</u>	<u>45.00</u>	<u>90.00</u>	<u>150.00</u>	<u>270.00</u>	<u>450.00</u>	<u>900.00</u>
<u>Industrial pretreatment:</u>							
<u>First 1,000 gallons per month (per 1,000 gallons)</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>	<u>12.48</u>
<u>Above 1,000 gallons per month (per 1,000 gallons)</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>	<u>1.92</u>

Section 4. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity thereof shall not affect any other provision of this Ordinance.

Section 5. All ordinances, resolutions, motions or orders in conflict with this Ordinance are hereby repealed to the extent of such conflict.

Section 6. This Ordinance shall be in full force and effect:

- i. upon its passage, approval and publication as provided by law; and
- ii. shall apply to all service charges on and after January 1, 2018.

(Intentionally Left Blank)

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, DuPage and Cook Counties, Illinois, this 12th day of December 2017, pursuant to a roll call vote, as follows:

APPROVED:



Frank DeSimone, Village President

ATTEST:


Nancy Quinn, Village Clerk

AYES: Carmona, Franz, Jaworska, Lomax, Panicola, Perez

NAYES: None

ABSENT: None

Outside the Corporate Limit of the Village of Bensenville 150 % of the incorporated rates

	Meter Size						
	5/8 Inch or 3/4 Inch	1 Inch	1.5 Inch	2 Inch	3 Inch	4 Inch	6 Inch
Water Charge							
First 10,000 gallons per month (per 1000 gallons)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00
Above 10,000 gallons per month (per 1000 gallons)	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00
Sewer Charge							
First 10,000 gallons per month (per 1000 gallons)	\$12.74	\$12.74	\$12.74	\$12.74	\$12.74	\$12.74	\$12.74
Above 10,000 gallons per month (per 1000 gallons)	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00	\$15.00
Non Metered Account - Fixed Sewer Fee	\$114.62	\$114.62	\$114.62	\$114.62	\$114.62	\$114.62	\$114.62
Fixed Service Charge							
	\$15.00	\$45.00	\$90.00	\$150.00	\$270.00	\$450.00	\$900.00
Industrial Pretreatment							
First 1,000 Gallons per month	\$12.48	\$12.48	\$12.48	\$12.48	\$12.48	\$12.48	\$12.48
Above 1,000 gallons per month	\$1.92	\$1.92	\$1.92	\$1.92	\$1.92	\$1.92	\$1.92

Should you have any question about water/sewer rates, please give us a call at 630-766-8200.

APPENDIX D



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Drinking Water Project Planning Submittal Checklist **Planning File**

Before the Agency will begin review of a Project Plan, all of the items below comprising the basic minimum requirements of a Project Plan must be included and the page number(s) of all items noted. Project planning must contain all pertinent information detailed in Ill. Adm. Code 35 Section 662.320(e). The loan applicant should be familiar with their planning responsibilities as detailed in Sections 662.320 and 662.330.

Complete this form online using Adobe Acrobat Reader, save it to your computer, then print and sign it.

Loan Applicant: Village of Bensenville

Consulting Engineer: Christopher B. Burke Engineering, Ltd.

Phone Number: 847-823-0500

Project Description:

White Pines Area Water Main Replacement - Installation of approximately 17,000 feet of 8"-diameter ductile iron water main, new valves in vaults, fire hydrants and copper water services.

Fill in the blank with the page(s) where each item below is found in the project plan. Additional information and/or examples for each item number are provided by corresponding numbers contained in the attached instructions.

No.	Page(s) or Comment	Information
1.	1-5	Loan applicant's background, total population served by the applicant, customer base, and project location information.
2.	6-7	Detailed description of the EXISTING public water supply source(s), treatment facilities, water storage facilities, and distribution system.
3.	3-4	Project description that explains the need and justification of the proposed project, including the benefits of the project.
4.	11	Discussion of the system's compliance with all applicable laws and regulations governing public water systems.
5.	11	Basis of design for chosen alternative.
6.	12-13	Inventory of environmental impacts of selected alternative, a discussion of the required mitigation measures, and a completed IEPA Loan Applicant Environmental Checklist form with sign-off documentation.
7.	Exhibits 1 & 5	Reproducible 8.5 X 11 inch map(s) showing the project(s) location(s) relative to the community.
8.	13-14, Exh 6	An estimate of the total project costs and a detailed estimate of construction item costs.
9.	15	Estimated loan terms, including: IEPA loan amount, interest rate, repayment period in years, and the annual loan repayment.
10.	15-18	Financial arrangements for assuring adequate annual debt service and O, M, and R coverage, a description of the dedicated source of revenue necessary for loan repayment, and any other funding involved in the project.

No.	Page(s) or Comment	Information
11.	8, 16-18	Detailed description of the existing residential rate structure, water consumption, any proposed rate changes, and an example of the existing and the proposed average monthly residential bill because of the project(s).
12.	Enclosed	One copy of completed Existing User Charge and O, M, and R Certification Sheet found on page 3 (attached) should be submitted with the Project Plan.
13.	N/A	Discussion of any "green" project components that are part of the proposed project.
14.	19	Schedule for project implementation.
15.	N/A	Copies of inter-governmental and/or service agreements.
16.	19	IEPA construction permit status.
17.	19	Name and address of the local newspaper(s).

Three (3) copies of the Project Plan and related documents should be submitted along with one (1) copy of this completed checklist (pages 1 through 3) to:

Infrastructure Financial Assistance Section (IFAS)
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

IFAS will distribute the planning documents to the appropriate Agency staff for review, comment, and approval. IFAS will contact the loan applicant if further information is needed. Please use the box below for any special instructions or notes.




Existing User Charge and O, M, and R Certification Sheet

Explain:

- Page 3 of 10

APPENDIX E

 Menu

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News »

Fire guts White Pines house as firefighters hampered by water main breaks



Jake Griffin

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Updated

9/21/2018

5:14 PM



A house on Woodland Avenue near Bensenville valued at roughly \$600,000 was destroyed by a fire Thursday after firefighters were thwarted by water main breaks that disabled nearby hydrants.
(Courtesy of the Village of Bensenville)

Firefighters from five suburban agencies were battling a massive house fire in an unincorporated part of DuPage County near Bensenville Thursday evening when their hoses went dry after about five minutes.

Two breaks in the 71-year-old water mains within the White Pines neighborhood rendered nearby hydrants useless, Bensenville Fire Protection District Chief Michael Spain said.

As the fire raged -- eventually gutting the \$600,000 two-story, brick house on the 17W100 block of Woodland Avenue -- firefighters were further

hampered by the 1,000-foot setback of the house from the road.

Eventually, they staggered engines every 300 feet down the driveway in order to pump water brought in by other specialty trucks. Spain said about \$20 million in equipment was used in a futile two-hour effort to extinguish the fire.

After initially getting the call at 7:53 p.m., fire officials declared the fire extinguished shortly after 10 p.m. Spain believes the fire had been burning for nearly an hour before it was discovered.

"By that time, it had partially just burned itself out," Spain said.

No firefighters were injured in the blaze. And the home, which authorities said has been for sale for nearly a year, was unoccupied.

Firefighters from fire protection districts or departments in Addison, Itasca, Elmhurst and Wood Dale assisted Bensenville. The cause of the fire remains under investigation by the DuPage County Arson Task Force, Spain said.

"It was incredibly frustrating to watch the firefighters trying to do their job but unable to do their jobs," said Bensenville Village Manager Evan Summers, who was at the scene of the fire for most of the evening.

Fire and village officials said the inability to properly fight Thursday's fire is another example of why the White Pines neighborhood of some 280 homes is in desperate need of water infrastructure upgrades. Summers said this is the third fire in the last three years that's been hampered by issues related to the aged water mains installed in 1947.

"This tells us what we've known for a long time, which is replacing these water mains is a life-safety issue," Summers said.

The village and the unincorporated residents of White Pines have been at odds for decades over the costs of upgrading the water system. The residents believe the village is trying to strong-arm them into annexing into the village by inflating the cost of the project.

Plans to replace the water system are underway.

Bensenville is going to apply for a loan from the Illinois Environmental Protection Agency to help fund the project.

If the village gets the loan, White Pines residents will see their water rates climb to \$27.50 per 1,000 gallons from the current \$15 rate, Summers said. The extra money will be used to pay off the loan. If they choose to annex, the rates won't be as high and money from new property taxes would be used to offset the cost of the loan.

Related Coverage

Topics in this Article

Michael Spain, Bensenville Fire Protection district, Evan Summers, DuPage county, Bensenville village, Woodland avenue, Arson Task Force, Wood Dale

Recommended For You

'Very, very sad scene':
30 dogs rescued but at
least 30 killed in kennel
fire

For Dr. Barbara Hanek,
the nightmare began

Barrington police have
'Best Day' with new lip
sync video
Barrington police officers
-- with assistance from
some village firefighters -

Wolff's Flea Market
ending long run in
Palatine
Wolff's Flea Market, a
go-to place for deeply
discounted

Rozner: Bears will try to
quickly forget the
Parkey era
To the surprise of
absolutely no one, it
sounds very much like .

Literary murals creating
a positive stir at
Mundelein High
New, literary-themed
murals that decorate
Mundelein High School's

**Lufthansa chief urges
rethink on closure of
Berlin airport**

The head of German
airline Lufthansa has
suggested that plans to

**Prosecutor: Drug maker
pushed OxyContin
despite danger signs**

A member of the family
that owns OxyContin
maker Purdue Pharma

**Fighting flares up in
Libyan capital, killing 1,
wounding 17**

Libyan authorities say
fighting between rival
armed groups in the



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Bryan Welch

From: Amit Thakkar <AThakkar@bensenville.il.us>
Sent: Tuesday, December 18, 2018 5:37 PM
To: Joseph Caracci; Scott Viger; Evan Summers; John Dalicandro
Subject: Attendance for the White Pines Open House

There were representatives of 92 households at the White Pines Open House who came and picked up their packets.

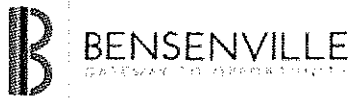
Thanks,
Amit

0323303011	Yes	4N370 CHURCH RD, BENSENVILLE IL 60106	PETRAS, ROBERT & ANNA	7/24/2018
0323303005	Yes	4N341 HAWTHORNE AVE, BENSENVILLE IL 60106	DICOSOLA, MARK	7/24/2018
0322216002	Yes	4N441 RT 83, BENSENVILLE IL 60106	ROSENTHAL, WM R	7/24/2018
0323305008	Yes	4N163 PINE GROVE AVE, BENSENVILLE IL 60106	SHAWALUK, EDIE & MARK	7/24/2018
0323300017	Yes	4N400 PINE GROVE AVE, BENSENVILLE IL 60106	SLEDZIK, STANLEY & MARY	7/24/2018
0323300010	Yes	4N386 PINE GROVE AVE, BENSENVILLE IL 60106	BRILL, JAMES & DEBORAH	7/24/2018
0323118012	Yes	16W760 RED OAK ST, BENSENVILLE IL 60106	FARAONE, MARIANNE & ANDREW	7/24/2018
0322409022	Yes	17W060 WOODLAND AVE, BENSENVILLE IL 60106	PAEZ, STEVEN & JENNIFER	7/24/2018
0323120003	Yes	16W701 RED OAK ST, BENSENVILLE IL 60106	RICKE, MARGE	7/24/2018
0322409021	Yes	17W078 WOODLAND AVE, BENSENVILLE IL 60106	KNIAZ, RICHARD & DAWN	7/24/2018
0322410007	Yes	17W131 WOODLAND AVE, BENSENVILLE IL 60106	GARDNER, LILLIAN & GARRY	7/24/2018
0323307004	Yes	4N225 HAWTHORNE AVE, BENSENVILLE IL 60106	JOHNSON, JOSEPH & CRYSTAL	7/24/2018
0322408004	Yes	4N366 BRIAR LN, BENSENVILLE IL 60106	ORNOWSKA, MALGORTAZA	7/24/2018
0323305012	Yes	240 RIDGEWOOD AVE, BENSENVILLE IL 60106	BREWER, JORDON & JUDITH	7/24/2018
0322409009	Yes	17W057 WHITE PINE RD, BENSENVILLE IL 60106	ROSENBERG, BEN F	7/24/2018
0323304001	Yes	16W781 WHITE PINE RD, BENSENVILLE IL 60106	HAMILTON, JAMES T	7/24/2018
0323305017	Yes	4N164 RIDGEWOOD AVE, BENSENVILLE IL 60106	COOK, JAMES T	7/24/2018
0323118019	Yes	16W650 RED OAK ST, BENSENVILLE IL 60106	TURNER, LINDA	7/24/2018
0323118017	Yes	16W680 RED OAK ST, BENSENVILLE IL 60106	JEFFERSON, DOLORES M	7/24/2018
0323305014	Yes	4N208 RIDGEWOOD AVE, BENSENVILLE IL 60106	LEVEEN, JOHN E & ELEANOR M	7/24/2018
0323305001	Yes	4N261 PINE GROVE AVE, BENSENVILLE IL 60106	KATER, PATRICIA	7/24/2018
0323301005	Yes	4N335 PINE GROVE AVE, BENSENVILLE IL 60106	JORGENSEN, MILDRED	7/24/2018
0323303003	Yes	4N371 HAWTHORNE AVE, BENSENVILLE IL 60106	KROUPA, Z & M SOBOTKOVA	7/24/2018
0323118008	Yes	16W639 CREST AVE, BENSENVILLE IL 60106	CELANO, JENNIFER	7/24/2018
0323305015	Yes	4N194 RIDGEWOOD AVE, BENSENVILLE IL 60106	CHATROOP, DAVID & CHERYL	7/24/2018
0323306013	Yes	4N224 HAWTHORNE, BENSENVILLE IL 60106	SEBASTIAN, GEOFFREY & C	7/24/2018
0323306001	Yes	16W661 WHITE PINES RD, BENSENVILLE IL 60106	GRIFFITH, RICHARD & L K	7/24/2018
0322408016	Yes	17W026 WHITE PINE RD, BENSENVILLE IL 60106	WIKELL, CAROL ANN	7/24/2018
0322216005	Yes	4N420 BRIAR LN, BENSENVILLE IL 60106	KRESS JR, EDWARD & GAIL	7/24/2018
0323117019	Yes	16W620 CREST AVE, BENSENVILLE IL 60106	PASSANANTI, BRIAN I	7/24/2018
0323116011	Yes	16W780 RED OAK ST, BENSENVILLE IL 60106	KRESS, MICHAEL F & ANITA	7/24/2018
0323305005	Yes	4N211 PINE GROVE AVE, BENSENVILLE IL 60106	MURYN, JAMES & CONNIE	7/24/2018

0323300003	Yes	4N371 BRIAR LN, BENSENVILLE IL 60106	KRESS, MICHAEL & ANITA	7/24/2018
0323118021	Yes	16W620 RED OAK ST, BENSENVILLE IL 60106	HANSEN, MICHAEL & DEANNA	7/24/2018
0322410015	Yes	4N120 FISCHER DR, BENSENVILLE IL 60106	ANTHONY, CAROL J	7/24/2018
0323116005	Yes	4N542 BRIAR LN, BENSENVILLE IL 60106	TSUSAKI, JACQUELINE M	7/24/2018
0323301011	Yes	4N370 RIDGEWOOD AVE, BENSENVILLE IL 60106	IGELMAN, GEORGE & JANET	7/24/2018
0323302003	Yes	4N371 RIDGEWOOD AVE, BENSENVILLE IL 60106	ZMORZYNSKI, EDWARD & D M	7/24/2018
0323118004	Yes	16W695 CREST AVE, BENSENVILLE IL 60106	PARENT, RICHARD & DEBRA	7/24/2018
0323117015	Yes	16W680 CREST AVE, BENSENVILLE IL 60106	HUNT, ALLEN J	7/24/2018
0323118009	Yes	16W621 CREST AVE, BENSENVILLE IL 60106	LOMBARDO, ANTHONY J	7/24/2018
0323118007	Yes	16W651 CREST AVE, BENSENVILLE IL 60106	HERFF, ALAN N	7/24/2018
0323306008	Yes	4N165 RIDGEWOOD AVE, BENSENVILLE IL 60106	HALL, CAROL TR	7/24/2018
0323307001	Yes	16W603 WHITE PINE RD, BENSENVILLE IL 60106	MAKOWIECKI, STANISLAW & M	7/24/2018
0323307017	Yes	4N150 CHURCH RD, BENSENVILLE IL 60106	ADCOCK, PHILIP L	7/24/2018
0323301007	Yes	4N311 PINE GROVE, BENSENVILLE IL 60106	SHAW, CELESTE	7/24/2018
0323307005	Yes	4N211 HAWTHORNE AVE, BENSENVILLE IL 60106	SKOL, BRIAN EDWARD	7/24/2018
0323307008	Yes	4N163 HAWTHORNE AVE, BENSENVILLE IL 60106	INMAN, MICHAEL & DAWN	7/24/2018
0323307007	Yes	4N181 HAWTHORNE AVE, BENSENVILLE IL 60106	SCHAU, SCOTT	7/24/2018
0323305009	Yes	16W720 FORESTVIEW RD, BENSENVILLE IL 60106	WILSON, GARY A	7/24/2018
0322216001	Yes	17W021 RED OAK ST, BENSENVILLE IL 60106	HERNANDEZ, OLGA	7/24/2018
0323117016	Yes	16W666 CREST AVE, BENSENVILLE IL 60106	YUNGERMAN, DANIEL & J	7/24/2018
0323304008	Yes	4N151 BRIAR LN, BENSENVILLE IL 60106	MAZAN, DANIEL & ELIZABETH	7/24/2018
0323300005	Yes	4N325 BRIAR LN, BENSENVILLE IL 60106	ZAKIUDDIN, MOHAMMED	7/24/2018
0323118001	Yes	4N481 BRIAR LN, BENSENVILLE IL 60106	MC CABE, DONALD & SHARRON	7/24/2018
0323304020	Yes	4N225 BRIAR LN, BENSENVILLE IL 60106	CARAGHER, BARYY M	7/24/2018
0323304002	Yes	4N251 BRIAR LN, BENSENVILLE IL 60106	SNYDER, R W & J L	7/24/2018
0323304019	Yes	4N241 BRIAR LN, BENSENVILLE IL 60106	LAURIDSEN, W H & SYLVIA	7/24/2018
0322411006	Yes	4N135 FISCHER DR, BENSENVILLE IL 60106	WEINCOUFF, GARY	7/24/2018
0323305003	Yes	4N241 PINE GROVE AVE, BENSENVILLE IL 60106	DUQUENE, NICK	7/24/2018
0323301004	Yes	4N359 PINE GROVE AVE, BENSENVILLE IL 60106	BAILEY, THOMAS & SHIRLEY	7/24/2018
0323119002	Yes	4N414 PINE GROVE AVE, BENSENVILLE IL 60106	SALDANA, ANTHONY & K	7/24/2018
0323109014	Yes	16W694 3RD AVE, BENSENVILLE IL 60106	SNYDER, BRAD & KERRI	7/24/2018
0323117014	Yes	16W692 CREST AVE, BENSENVILLE IL 60106	DAHLE, PAMELA R	7/24/2018
0323110006	Yes	16W656 3RD AVE, BENSENVILLE IL 60106	PLUMERI, M & B BROOK	7/24/2018
0323117010	Yes	16W587 3RD AVE, BENSENVILLE IL 60106	EICHHORN, MICHELLE	7/24/2018
0323117003	Yes	16W693 3RD AVE, BENSENVILLE IL 60106	OVERSTREET JR, LOWELL R	7/24/2018
0323117027	Yes	16W603 3RD AVE, BENSENVILLE IL 60106	DEVITT, ALLAN T	7/24/2018
0323307009	Yes	16W604 FOREST VIEW RD, BENSENVILLE IL 60106	MANNION, NICHOLAS & NORMA	7/24/2018
0323118013	Yes	16W740 RED OAK ST, BENSENVILLE IL 60106	KOCHANSKI, MICHAEL & L	7/24/2018
0323303014	Yes	4N324 CHURCH RD, BENSENVILLE IL 60106	KURPIEL, THOMAS P & MARY	7/24/2018
0323307010	Yes	16W575 WHITE PINE RD, BENSENVILLE IL 60106	FELIX, RICARDO & M R	7/24/2018
0323118015	Yes	16W710 RED OAK ST, BENSENVILLE IL 60106	GREEN, H LANNY	7/24/2018
0323118022	Yes	16W606 RED OAK ST, BENSENVILLE IL 60106	GAHANSHA, ASHOR	7/24/2018
0323117001	Yes	4N551 BRIAR LN, BENSENVILLE IL 60106	LUX, DAVID E & TINA M	7/24/2018
0323307011	Yes	4N252 CHURCH RD, BENSENVILLE IL 60106	SALZINGER, SCOT	7/24/2018
0323307002	Yes	4N251 HAWTHORNE AVE, BENSENVILLE IL 60106	HARMON, B & F PASHOVA	7/24/2018
0323304014	Yes	4N210 PINE GROVE AVE, BENSENVILLE IL 60106	BALOG, PAUL G	7/24/2018

0322409007	Yes	17W071 WHITE PINE RD, BENSENVILLE IL 60106	BIS, TOMASZ & E GWOZOW	7/24/2018
0322409006	Yes	17W091 WHITE PINE RD, BENSENVILLE IL 60106	PAULUS, CHRISTINA S	7/24/2018
0322411017	Yes	4N150 BRIAR LN, BENSENVILLE IL 60106	ROY, WILLIAM	7/24/2018
0323301014	Yes	4N324 RIDGEWOOD AVE, BENSENVILLE IL 60106	BRUNNER, MARY LOU	7/24/2018
0323307006	Yes	4N195 HAWTHORNE AVE, BENSENVILLE IL 60106	WILLIAMS, BILL F	7/24/2018
0323303008	Yes	16W604 WHITE PINES RD, BENSENVILLE IL 60106	ADAMCZYK, JAMES M	7/24/2018
0322216006	Yes	4N410 BRIAR LN, BENSENVILLE IL 60106	BALZANTO, JOSEPH & P M	7/24/2018
0322409002	Yes	17W151 WHITE PINE RD, BENSENVILLE IL 60106	WILLIAMS, JERRY & CAROL	7/24/2018
0323121002	Yes	4N401 RIDGEWOOD AVE, BENSENVILLE IL 60106	KOVICH, JEFFREY & SARA	7/24/2018
0323307015	Yes	4N180 CHURCH RD, BENSENVILLE IL 60106	GRADEI, ALAN R	7/24/2018
0323117020	Yes	16W604 CREST AVE, BENSENVILLE IL 60106	NORTON, C & K HARTMANN	7/24/2018
0323300002	Yes	4N385 BRIAR LN, BENSENVILLE IL 60106	DUZINSKAS, RICHARD & J	7/24/2018
0322409025	Yes	17W050 WOODLAND AVE, BENSENVILLE IL 60106	MEDINA, RICHARD & CHERYL	7/24/2018
0322409026	Yes	17W050 WOODLAND AVE, BENSENVILLE IL 60106	MEDINA, RICHARD & CHERYL	7/24/2018

Amit Thakkar,
Director of Finance



12 S Center Street
Bensenville, IL 60106
Ph: 630-350-3497
Email: athakkar@bensenville.il.us

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Bensenville to White Pines residents: Pay property taxes, or pay doubled water bill

**Robert Sanchez**

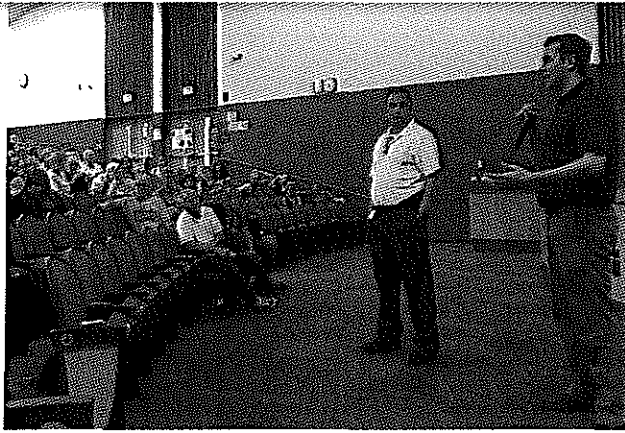
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7/26/2018

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Bensenville Village Manager Evan Summers, right, and Village President Frank DeSimone speak to a crowd of White Pines residents on Tuesday to explain the village's plan to replace the neighborhood's aging water system.
 (Robert Sanchez | Staff Photographer)

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More than 140 residents attended a Tuesday night meeting in Bensenville to learn about the village's plan replace the aging water system in the White Pines neighborhood.
 (Robert Sanchez | Staff Photographer)

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Roughly three years after residents in a neighborhood near Bensenville

rejected an annexation proposal to get a new water delivery system, village officials say they no longer can afford to postpone the project.

Bensenville officials this week informed White Pines residents that an estimated \$7 million project to replace their subdivision's aging water system is expected to begin next year. To fund the work, White Pines property owners have two choices: voluntarily annex and pay for it through property taxes over a 20-year period, or remain separate and pay a higher surcharge that could nearly double their water bill.

"The big difference between this plan and previous plans is this project is going to happen," Village Manager Evan Summers told more than 140 residents during a Tuesday night meeting at Blackhawk Middle School. "It's just a matter of how you want to pay for it. The village is committed to take the project on."

White Pines has been staunchly independent since its founding in the 1940s, but the neighborhood of roughly 280 homes gets Lake Michigan water through Bensenville.



Village officials say the White Pines water system, which includes decades-old pipes, is obsolete. In addition to frequent main breaks, the system produces substandard water pressure to combat fires.

But a December 2014 proposal by the village to replace the system never materialized because residents resisted annexation and questioned the cost estimate.

The residents have tried to persuade DuPage County or a private company to replace the system and supply them with water, but DuPage officials say the county plan would cost more than Bensenville's proposal.

In the meantime, village officials say the water system is fragile. Just last month, a series of 16 water main breaks in one weekend cost the village more than \$60,000 to repair.

Village President Frank DeSimone said White Pines residents asked him to tackle the issue after he was elected last year.

He said village officials spent that time working to come up with a fair and equitable solution.

"We're not hiding anything," he said.

"We're not twisting any numbers."

The village's plan is to use roughly \$900,000 it collected from a surcharge that White Pines residents have been paying on their water bills and to borrow the remaining \$6.1 million for the project from the Illinois Environmental Protection Agency.

If White Pines residents agree to become Bensenville taxpayers, the property tax dollars they pay to the village would be used to help repay the loan over 20 years.

Residents who refuse to annex, or who can't because their properties aren't contiguous with the village, will have a second option: Bensenville would increase the surcharge for their combined water and sewer bill.

DeSimone said that's what would be needed to pay for the \$7 million project.

The average household uses 5,000 gallons of water every month and the average Bensenville resident pays \$102.45 a month.

The typical White Pines homeowner pays Bensenville \$153.68 a month for the same amount of water.

If the project is only funded with water and sewer charges, the average monthly bill in White Pines would increase to \$281.74.

"We recognize this is high," Summers said.

If the White Pines neighborhood is annexed into Bensenville, it would increase the residential tax base for the village, which lost hundreds of homes to O'Hare International Airport expansion.

Summers said previous attempts to find an alternative to fix the White Pines water system haven't panned out. He said the village plan "is the best way."

"We are your water supplier for White Pines," he said. "At the end of the day, I have a legal obligation to provide you clean water. That system no longer works."

Homeowners have several months to decide whether to annex. Meanwhile, the village is planning to apply for the IEPA loan in the fall.

"Once we get the loan, the project is going to start," DeSimone said.

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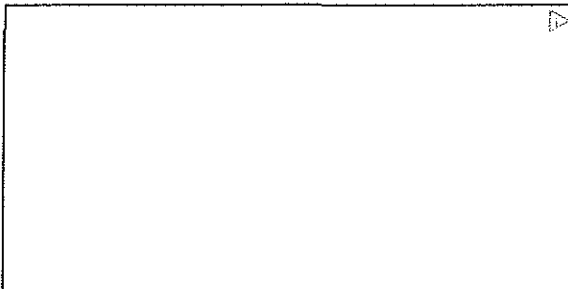
**Fire guts White Pines house as
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From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 8, 2019 1:41 PM
To: Nifong, Chris
Cc: Joseph Caracci; Mehul Patel
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)
Attachments: Revised Bensenville EcoCat to Address wetland comment - April 2019.pdf

Hi Chris,

Please see my follow up below and let me know if they address your requests. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, May 8, 2019 8:34 AM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Bryan,

I read your 5-8-19 letter in response to my 4-19-19 planning review letter. I still need the following information to complete the PEID:

1. **Item number 3. Provide a new IDNR Eco-CAT printout that includes both Part 1075 and Part 1090.** Per the comment response, the IDNR letter terminating both 1075 and 1090 was included in the report (page 42 of the PDF report I emailed and attached). We did not submit a revised EcoCAT subsequent to the November 2018 EcoCAT that is included in the report. When we noticed that IDNR inadvertently omitted the Part 1090 termination, we contacted Bradley Hayes at IDNR, who acknowledged the misunderstanding and issued the April 26, 2019 letter terminated both 1075 and 1090 based off of the November EcoCAT.
2. **Item number 4. Provide documentation from IDNR OWR that the project is no longer regulated by them.** Please clarify the request. I am not aware of any documentation IDNR provided indicating that the project is regulated by them. CBBEL referenced Regional Permit 3 in the 2015 planning report, but the area with floodplain is no longer in the current project area. There are no floodplains within the project limits, so there is nothing for them to regulate.
3. **Item number 5. Provide documentation from U.S. Army Corps of Engineers that the project does not fall under their jurisdiction.** Based on there being no wetlands in the project area, Part 1090 was terminated and USACOE jurisdiction has never been part of this project, please clarify this request.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 8, 2019 7:47 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: [External] Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

On behalf of the Village of Bensenville, CBBEL is submitting the attached revised Planning Report for L174402 (White Pines Water Main). This report has been revised based on comments received from you dated April 19, 2019. A comment disposition letter is also attached.

We will be mailing the comment disposition letter and 2 hardcopies of the revised Planning Report to your attention for approval. Please let me know if you have any questions or need anything else. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, May 8, 2019 8:34 AM
To: Bryan Welch
Cc: Joseph Caracci; Mehul Patel
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Bryan,

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3. Item number 5. Provide documentation from U.S. Army Corps of Engineers that the project does not fall under their jurisdiction.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 8, 2019 7:47 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: [External] Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

On behalf of the Village of Bensenville, CBBEL is submitting the attached revised Planning Report for L174402 (White Pines Water Main). This report has been revised based on comments received from you dated April 19, 2019. A comment disposition letter is also attached.

We will be mailing the comment disposition letter and 2 hardcopies of the revised Planning Report to your attention for approval. Please let me know if you have any questions or need anything else. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com

www.cbbel.com

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Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

JB Pritzker, Governor

Colleen Callahan, Director

April 26, 2019

Thomas McArdle
Burke Engineering
9575 W. Higgins
Rosemont, IL 60018

RE: Bensenville Water Mains
Project Number(s): 1904561 [1507206]
County: DuPage

Dear Applicant:

This letter is in reference to the project you recently submitted for consultation. The natural resource review provided by EcoCAT identified protected resources that may be in the vicinity of the proposed action. The Department has evaluated this information and concluded that adverse effects are unlikely. Therefore, consultation under 17 Ill. Adm. Code Part 1075 and 1090 is terminated.

However, the Department recommends a construction barrier and silt fence be utilized to keep workers within the project site and to protect Fischer Woods INAI site.

Consultation for Part 1075 is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Consultation for Part 1090 (Interagency Wetland Policy Act) is valid for three years.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database and the Illinois Wetlands Inventory at the time of the project submittal, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, you must comply with the applicable statutes and regulations. Also, note that termination does not imply IDNR's authorization or endorsement of the proposed action.

Please contact me if you have questions regarding this review.

Bradley Hayes
Division of Ecosystems and Environment
217-785-5500

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 9, 2019 12:01 PM
To: Bryan Welch
Cc: Joseph Caracci; Mehul Patel
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)
Attachments: loan-applicant-environmental-checklist.pdf

Bryan,

I have attached the IEPA Loan Applicant Environmental Checklist and instructions. Items 2 , 3 and Attachment A of the instructions explain what is needed and where to request comments for the environmental clearances. I am available to discuss the project anytime. My desk phone number is 217-785-6639.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 9, 2019 11:37 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Subject: [External] RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

I was wondering if you had 5 minutes today to chat about this project. I haven't run into having to get letters from the COE and IDNR beyond the EcoCAT terminations for IEPA loan projects that don't impact wetlands or floodplain, so I just want to make sure I understand what you're looking for and who I should be talking to, so I can get the requested info as soon as possible. I think it will be helpful for this project as well as a couple other loan projects I'm working on. Please give me a call when convenient, or let me know how I can best reach you. Thanks.

Bryan Welch, PE

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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, May 8, 2019 3:31 PM
To: Bryan Welch <bwelch@cbbel.com>
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Bryan,

Your follow up below does not address my request for additional information.

We need Eco-CAT review results that include Part 1090 and have evaluated whether wetlands are present within 250 feet of any proposed construction areas. The Eco-CAT results that have been provided do not provide this information. If wetlands are near an IEPA loan project construction area, it becomes necessary for a determination from IDNR OWR and the U.S. Army Corps of Engineers (USACE) to see if the project is regulated by them. Although the 4-26-19 IDNR letter that you provided terminates the Eco-CAT Part 1090 wetlands review, this does not equate to a termination by IDNR OWR or USACE. Documentation from IDNR OWR and USACE must still be provided. If the IDNR OWR and USACE say the project is not regulated by them, Bensenville will only need to comply with the construction barrier and silt fence recommendation in the 4-26-19 IDNR Eco-CAT review letter. If the IDNR OWR

and/or USACE determine that the project falls under their jurisdiction, Bensenville will be required to follow all permits, conditions and recommendations issued by them.

Because the 4-26-19 IDNR terminates the Eco-CAT Part 1090 review, I assume that their evaluation did determine that wetlands were present within 250 feet of the proposed construction areas. A new Eco-CAT review results will verify this. After your request for clarification, I went back and looked at the January 2015 planning report and found 2-12-14 Eco-CAT review results that show wetlands within 250 feet of the project location.

The original Bensenville planning report also included IDNR OWR comments, recommendations and Regional Permit No. 3, which was noted by item 4 of my 4-19-19 planning review letter. These recommendations are more specific than the 4-26-19 IDNR letter. This documents that IDNR OWR previously determined that the project does fall under their jurisdiction and is another reason why Bensenville must request comments for IDNR OWR and USACE.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Wednesday, May 8, 2019 1:41 PM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: [External] RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

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Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Bryan,

I read your 5-8-19 letter in response to my 4-19-19 planning review letter. I still need the following information to complete the PEID:

1. **Item number 3. Provide a new IDNR Eco-CAT printout that includes both Part 1075 and Part 1090.** Per the comment response, the IDNR letter terminating both 1075 and 1090 was included in the report (page 42 of the PDF report I emailed and attached). We did not submit a revised EcoCAT subsequent to the November 2018 EcoCAT that is included in the report. When we noticed that IDNR inadvertently omitted the Part 1090 termination, we contacted Bradley Hayes at IDNR, who acknowledged the misunderstanding and issued the April 26, 2019 letter terminated both 1075 and 1090 based off of the November EcoCAT.
2. **Item number 4. Provide documentation from IDNR OWR that the project is no longer regulated by them.** Please clarify the request. I am not aware of any documentation IDNR provided indicating that the project is regulated by them. CBBEL referenced Regional Permit 3 in the 2015 planning report, but the area with floodplain is no longer in the current project area. There are no floodplains within the project limits, so there is nothing for them to regulate.

3. Item number 5. Provide documentation from U.S. Army Corps of Engineers that the project does not fall under their jurisdiction. Based on there being no wetlands in the project area, Part 1090 was terminated and USACOE jurisdiction has never been part of this project, please clarify this request.

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Sent: Wednesday, May 8, 2019 3:33 PM
To: Joseph Caracci; Mehul Patel
Cc: Bryan Welch
Subject: FW: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Sorry, I forgot to copy Bensenville on my email below.

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IEPA Loan Applicant Environmental Checklist

Loan Applicant: _____

L17#: _____

Checklist must be signed by loan applicant's Authorized Representative (not engineering consultant)

ALL loan applicants must provide items 1 and 2 below. Items 3-6 are specific to conditions of project.

1) National Historic Preservation Act, Section 106 sign-off:

Circle one: **Attached** OR **Date requested** _____

2) Provide record of consultation with Illinois Department of Natural Resources Office of Realty and Environmental Planning regarding compliance with Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act and Illinois Interagency Wetlands Protection Act.

Circle one: **EcoCAT printout** **DNR Letter** **Date DNR consultation requested:** _____

OR Project is exempt from consultation per Title 17 Ill. Adm. Code Parts 1075 and 1090. If this is selected, an explanation must be attached. Exemption is rare. Check here if project is exempt _____

3) ☐ **Yes** ☐ **No** Project involves construction in or near a stream bank (includes stream/river crossing), floodway and/or wetland.

IF YES: By signing below applicant certifies they will comply with the Rivers, Lakes & Streams Act.

IF YES: Comments from the Army Corps of Engineers are required.

Circle one: **Attached** OR **Date requested** _____

4) ☐ **Yes** ☐ **No** Project involves conversion of prime agricultural land to other uses.

IF YES: Description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided in planning.

5) ☐ **Yes** ☐ **No** Project includes growth resulting in more than a 30% reserve capacity in the present or proposed service.

IF YES: Prior to planning approval a detailed discussion in the planning documents must be provided documenting potential secondary impacts of the proposed project.

WASTEWATER PROJECTS ONLY

6) ☐ **Yes** ☐ **No** Project is within jurisdiction of a designated Water Quality Management Agency such as Chicago Metropolitan Agency for Planning (CMAP), Greater Egypt Regional Planning & Development Commission (GERPDC) or Southwestern Illinois Planning Commission (SIPC).

IF YES to CMAP: IEPA will forward information to CMAP for comments. No further action is required.

IF YES to GERPDC or SIPC: Comments from the appropriate agency regarding the project, growth projections and Facility Planning Area (FPA) modifications (if applicable) are required.

Circle one: **Attached** OR **Date requested** _____

7) ☐ **Yes** ☐ **No** A change in the Facility Planning Area (FPA) is proposed.

IF YES: Comments from Illinois Department of Agriculture regarding the FPA change are required.

Circle one: **Attached** OR **Date requested** _____

Specific contact information for the various offices and agencies which must be contacted, as well as the sources for further information, is detailed within the instruction guide for this checklist.

Signed: _____

Date: _____

Loan Applicant's Authorized Representative

IEPA Loan Applicant Environmental Checklist – Instructions

Prior to Project/Facility Plan approval, a loan applicant must satisfy the IEPA that it will comply with various State and Federal enactments for protection of historical/cultural resources, recreational areas, wetlands, floodplains and stream banks, rare and endangered species, prime agricultural land, air and water quality and other sensitive environmental areas. This requirement can be satisfied by providing the information required on this IEPA checklist. **The checklist must be submitted to IEPA and signed by the loan applicant's Authorized Representative.** Instructions for completing the checklist follow.

1) Historical/Cultural Resources - National Historic Preservation Act, Section 106

A sign-off from the Illinois Department of Natural Resources State Historic Preservation Office (SHPO) must be submitted. In requesting a sign-off, you must indicate that the project will be funded through the IEPA loan program and therefore will require a federal Section 106 Sign-off (this will also satisfy the State Agency Historic Preservation Protection Act of 1990). The sign-off may be unconditional, or it may be conditional upon the applicant agreeing to incorporate measures to protect or recover historic or archeological resources.

More information via the internet: <https://www2.illinois.gov/dnrhistoric/Preserve/Pages/Resource-Protection.aspx>
IL Historic Preservation Office phone number: (217) 782-4836

Direct the request for SHPO review to: State Historic Preservation Office (Preservation Services)
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

2) Threatened & Endangered Species, Natural Areas, Wetlands - Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, Illinois Interagency Wetland Policy Act

If the project will result in a change in existing environmental conditions per Title 17 Ill. Adm. Code Section 1075.30(a) or result in an adverse impact to a wetland per Section 1090.20, it must be reviewed by the Illinois Department of Natural Resources (IDNR) Office of Realty and Environmental Planning for potential adverse effects to protected natural resources. (NOTE: IDNR reviews are **not** required for equipment purchases). Loan applicants should submit the project via IDNR's EcoCAT website at: <http://dnrecocat.state.il.us/ecopublic/>. **Please note, a \$500 fee is not applicable to Information Requests or Consultations required for State or Federal Government projects.** Applicants must then provide to IEPA either:

- An EcoCAT review report which states that consultation under Part 1075 is terminated and that the wetland review under Part 1090 is terminated,
- A letter from IDNR terminating the 1075 consultation and the 1090 wetland review because adverse effects are unlikely, or
- A letter from IDNR detailing any measures which must be taken to avoid, minimize or mitigate adverse effects. These measures must be incorporated into the project specifications.

Loan applicants may contact IDNR in writing:

Illinois Department of Natural Resources
Division of Ecosystems and Environment
One Natural Resources Way
Springfield, Illinois 62702-1271

Reminder: The \$500 fee is not applicable to Consultations required by State or Federal Government projects. If this consultation is for an SRF loan project, do not pay the \$500 fee.

3) Construction in Floodways, Wetlands, and on-Stream Banks (including stream crossings)

Illinois Lakes, Rivers, and Streams Act & Section 404 of the Federal Clean Water Act

Projects involving piping construction across defined waterways, or construction in floodways, wetlands, or any body of water, require the applicant to certify to IEPA that the project will comply with the Illinois Lakes, Rivers, and Streams Act. These same projects may ultimately also require a U.S. Army Corps of Engineers Section 404 Permit.

The requirements to receive a permit for work under the jurisdiction of IDNR – Office of Water Resources are available on the IDNR website at: <http://dnr.state.il.us/owr/resman/permitprogs.htm>

Or by writing: Illinois Department of Natural Resources – Office of Water Resources
Division of Resource Management
2050 West Stearns Road
Bartlett, Illinois 60103
847/608-3100
(Projects in Cook, Lake, McHenry, DuPage, Kane and Will Counties)

Illinois Department of Natural Resources – Office of Water Resources
Downstate Regulatory Programs Section
One Natural Resources Way
Springfield, Illinois 62702-1271
217/782-3863
(Projects in remainder of the State)

At the same time, comments should be sought from the Corps to determine whether a 404 Permit is needed. **Attachment A** to this guidance will provide you with a map and address to help you determine the appropriate Army Corps of Engineers District Office for your project.

4) Conversion of Prime Agricultural Land to Other Uses

If the project involves conversion of prime agricultural land to other uses, a description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided.

5) Secondary Environmental Impacts

Projects which include an allowance for more than 30% reserve growth capacity in the present or projected service area must attach or include in planning documents a discussion of the potential secondary impacts of the proposed project(s) such as changes in the rate, density, type of development or use of open space, floodplain, or prime agricultural land. Also, the impacts of sensitive ecosystems due to induced growth must be evaluated and appropriate measures for mitigation proposed if necessary.

6) Designated Water Quality Management Agency (DWQMA) Consultation/Sign-off.

This is applicable only to wastewater or sewer projects located in one of the DWQMA Areas (See **Attachment B** - applicable counties and contact info below). Loan applicants located in GERPDC or SIPC's jurisdiction should contact their DWQMA to request comments on the scope of the proposed project and the future growth anticipated for the service area. IEPA will forward project information directly to CMAP for comments.

For projects which propose a change in a Facility Planning Area a sign-off must be obtained from the DWQMA, indicating that the proposed project is not in conflict with the Water Quality Management Plan. Request comments and sign-offs as necessary from the Agencies listed below.

Chicago Metropolitan Agency for Planning (CMAP)
233 South Wacker Drive
Suite 800
Chicago, Illinois 60606
(312) 454-0400
FAX (312) 454-0411
www.chicagoareapanning.org

Counties: Cook, DuPage, Kane,
Kendall, Lake, McHenry, Will

Greater Egypt Regional Planning & Development Commission
3000 West DeYoung St.
Suite 800B-3
Marion, Illinois 62959
(618) 997-9351
FAX (618) 997-9354

Counties: Franklin,
Jefferson, Jackson,
Perry, Williamson

Southwestern Illinois Planning Commission
2511 Vandalia Street
Collinsville, Illinois 62234-5034
(618) 344-4250
FAX (618) 344-4253

Counties: Bond, Clinton, Madison
Monroe, Randolph, St. Clair,
Washington

7) Proposed Change to Facility Planning Area Boundaries

Consultation with the Illinois Department of Agriculture (IDOA) is required for wastewater projects requesting a change in the boundaries of a Facility Planning Area. Details on the information required by IDOA can be accessed on the internet at:

<http://www.agr.state.il.us/Environment/LandWater/FPAboundarychangerequest.pdf>

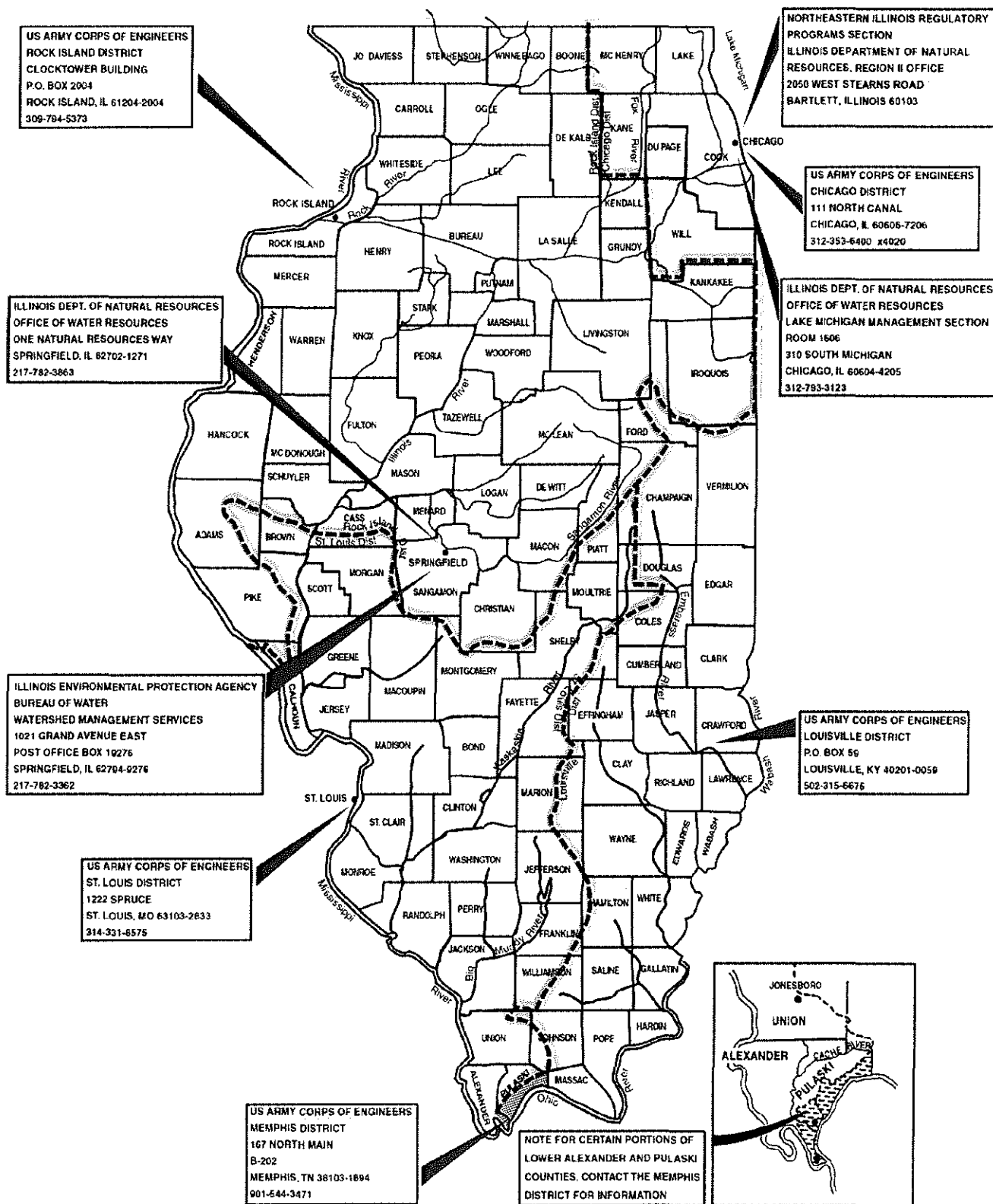
Or by writing or calling:

Illinois Department of Agriculture
Bureau of Land and Water Resources
P.O. Box 19281
State Fairgrounds
Springfield, IL 62794-9281

(217) 785-4389

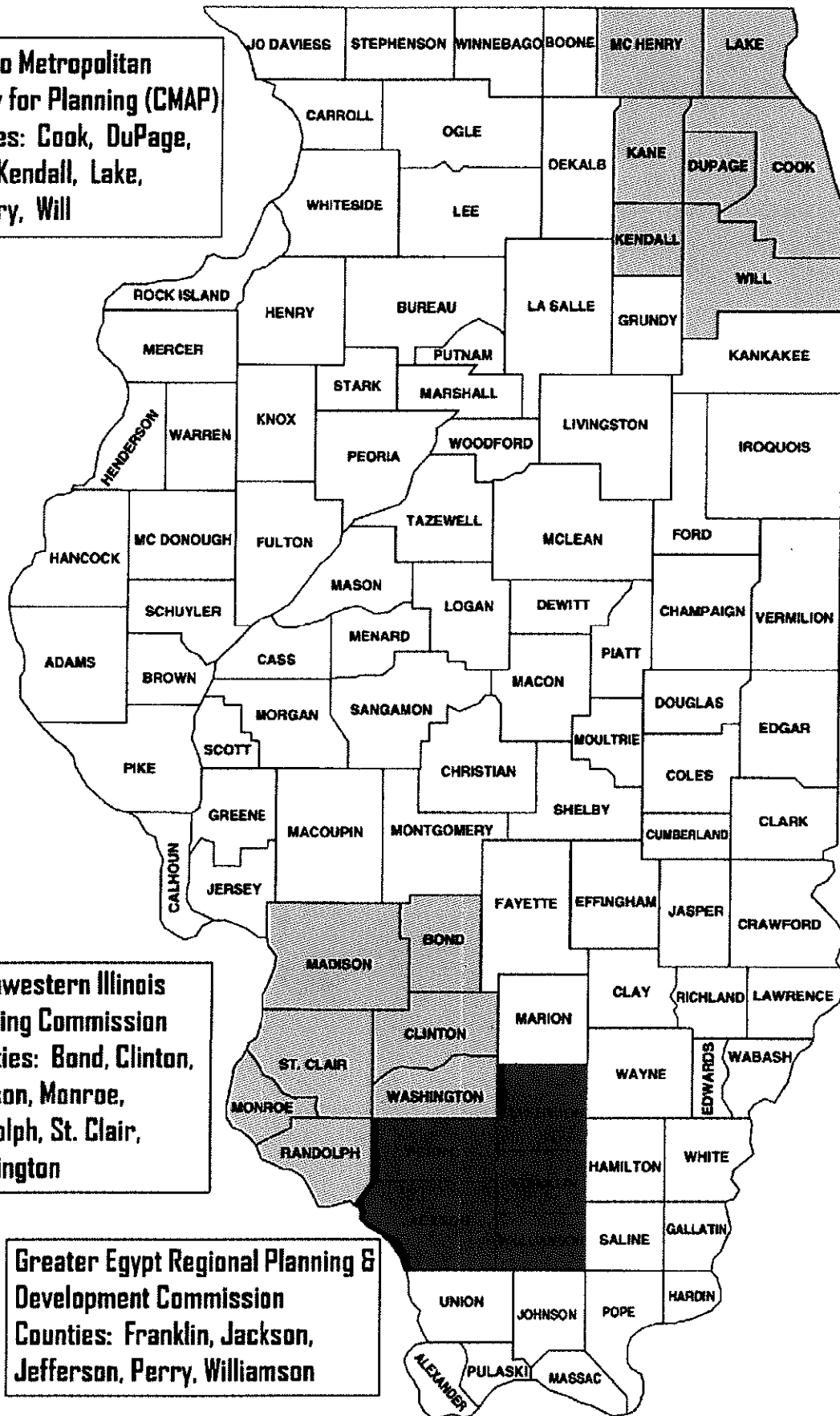
If you have any questions regarding this package, please contact the IEPA at 217/782-2027.

Attachment A REGULATORY JURISDICTIONAL BOUNDARIES



ATTACHMENT B

**Chicago Metropolitan
Agency for Planning (CMAP)**
Counties: Cook, DuPage,
Kane, Kendall, Lake,
McHenry, Will



**Southwestern Illinois
Planning Commission**
Counties: Bond, Clinton,
Madison, Monroe,
Randolph, St. Clair,
Washington

**Greater Egypt Regional Planning &
Development Commission**
Counties: Franklin, Jackson,
Jefferson, Perry, Williamson

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 9, 2019 1:33 PM
To: Joseph Caracci; Mehul Patel
Subject: FW: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)
Attachments: loan-applicant-environmental-checklist.pdf

Just to keep you guys in the loop, I spoke with Chris Nifong on the phone today. I think he was confused about our project limits and the location of any floodplain or wetlands in the area, so I'm preparing an exhibit for him that I think he will accept as a demonstration that there are no wetlands or floodplain impacts. I'll copy you on that email, likely early next week. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 9, 2019 12:01 PM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Bryan,

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IEPA Loan Applicant Environmental Checklist

Loan Applicant: _____

L17#: _____

**Checklist must be signed by loan applicant's Authorized Representative (not engineering consultant)
ALL loan applicants must provide items 1 and 2 below. Items 3-6 are specific to conditions of project.**

1) National Historic Preservation Act, Section 106 sign-off:

Circle one: **Attached** OR **Date requested** _____

2) Provide record of consultation with Illinois Department of Natural Resources Office of Realty and Environmental Planning regarding compliance with Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act and Illinois Interagency Wetlands Protection Act.

Circle one: **EcoCAT printout** **DNR Letter** **Date DNR consultation requested:** _____

OR Project is exempt from consultation per Title 17 Ill. Adm. Code Parts 1075 and 1090. If this is selected, an explanation must be attached. Exemption is rare. Check here if project is exempt _____

3) Yes No Project involves construction in or near a stream bank (includes stream/river crossing), floodway and/or wetland.

IF YES: By signing below applicant certifies they will comply with the Rivers, Lakes & Streams Act.

IF YES: Comments from the Army Corps of Engineers are required.

Circle one: **Attached** OR **Date requested** _____

4) Yes No Project involves conversion of prime agricultural land to other uses.

IF YES: Description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided in planning.

5) Yes No Project includes growth resulting in more than a 30% reserve capacity in the present or proposed service.

IF YES: Prior to planning approval a detailed discussion in the planning documents must be provided documenting potential secondary impacts of the proposed project.

WASTEWATER PROJECTS ONLY

6) Yes No Project is within jurisdiction of a designated Water Quality Management Agency such as Chicago Metropolitan Agency for Planning (CMAP), Greater Egypt Regional Planning & Development Commission (GERPDC) or Southwestern Illinois Planning Commission (SIPC).

IF YES to CMAP: IEPA will forward information to CMAP for comments. No further action is required.

IF YES to GERPDC or SIPC: Comments from the appropriate agency regarding the project, growth projections and Facility Planning Area (FPA) modifications (if applicable) are required.

Circle one: **Attached** OR **Date requested** _____

7) Yes No A change in the Facility Planning Area (FPA) is proposed.

IF YES: Comments from Illinois Department of Agriculture regarding the FPA change are required.

Circle one: **Attached** OR **Date requested** _____

Specific contact information for the various offices and agencies which must be contacted, as well as the sources for further information, is detailed within the instruction guide for this checklist.

Signed: _____

Date: _____

Loan Applicant's Authorized Representative

IEPA Loan Applicant Environmental Checklist – Instructions

Prior to Project/Facility Plan approval, a loan applicant must satisfy the IEPA that it will comply with various State and Federal enactments for protection of historical/cultural resources, recreational areas, wetlands, floodplains and stream banks, rare and endangered species, prime agricultural land, air and water quality and other sensitive environmental areas. This requirement can be satisfied by providing the information required on this IEPA checklist. **The checklist must be submitted to IEPA and signed by the loan applicant's Authorized Representative. Instructions for completing the checklist follow.**

1) Historical/Cultural Resources - National Historic Preservation Act, Section 106

A sign-off from the Illinois Department of Natural Resources State Historic Preservation Office (SHPO) must be submitted. In requesting a sign-off, you must indicate that the project will be funded through the IEPA loan program and therefore will require a federal Section 106 Sign-off (this will also satisfy the State Agency Historic Preservation Protection Act of 1990). The sign-off may be unconditional, or it may be conditional upon the applicant agreeing to incorporate measures to protect or recover historic or archeological resources.

More information via the internet: <https://www2.illinois.gov/dnrhistoric/Preserve/Pages/Resource-Protection.aspx>
IL Historic Preservation Office phone number: (217) 782-4836

Direct the request for SHPO review to:

State Historic Preservation Office (Preservation Services)
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

2) Threatened & Endangered Species, Natural Areas, Wetlands - Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, Illinois Interagency Wetland Policy Act

If the project will result in a change in existing environmental conditions per Title 17 Ill. Adm. Code Section 1075.30(a) or result in an adverse impact to a wetland per Section 1090.20, it must be reviewed by the Illinois Department of Natural Resources (IDNR) Office of Realty and Environmental Planning for potential adverse effects to protected natural resources. (NOTE: IDNR reviews are not required for equipment purchases). Loan applicants should submit the project via IDNR's EcoCAT website at: <http://dnrecocat.state.il.us/ecopublic/>. **Please note, a \$500 fee is not applicable to Information Requests or Consultations required for State or Federal Government projects.** Applicants must then provide to IEPA either:

- An EcoCAT review report which states that consultation under Part 1075 is terminated and that the wetland review under Part 1090 is terminated,
- A letter from IDNR terminating the 1075 consultation and the 1090 wetland review because adverse effects are unlikely, or
- A letter from IDNR detailing any measures which must be taken to avoid, minimize or mitigate adverse effects. These measures must be incorporated into the project specifications.

Loan applicants may contact IDNR in writing:

Illinois Department of Natural Resources
Division of Ecosystems and Environment
One Natural Resources Way
Springfield, Illinois 62702-1271

Reminder: The \$500 fee is not applicable to Consultations required by State or Federal Government projects. If this consultation is for an SRF loan project, do not pay the \$500 fee.

3) Construction in Floodways, Wetlands, and on-Stream Banks (including stream crossings)

Illinois Lakes, Rivers, and Streams Act & Section 404 of the Federal Clean Water Act

Projects involving piping construction across defined waterways, or construction in floodways, wetlands, or any body of water, require the applicant to certify to IEPA that the project will comply with the Illinois Lakes, Rivers, and Streams Act. These same projects may ultimately also require a U.S. Army Corps of Engineers Section 404 Permit.

The requirements to receive a permit for work under the jurisdiction of IDNR – Office of Water Resources are available on the IDNR website at: <http://dnr.state.il.us/owr/resman/permitprogs.htm>

Or by writing: Illinois Department of Natural Resources – Office of Water Resources
Division of Resource Management
2050 West Stearns Road
Bartlett, Illinois 60103
847/608-3100
(Projects in Cook, Lake, McHenry, DuPage, Kane and Will Counties)

Illinois Department of Natural Resources – Office of Water Resources
Downstate Regulatory Programs Section
One Natural Resources Way
Springfield, Illinois 62702-1271
217/782-3863
(Projects in remainder of the State)

At the same time, comments should be sought from the Corps to determine whether a 404 Permit is needed. **Attachment A** to this guidance will provide you with a map and address to help you determine the appropriate Army Corps of Engineers District Office for your project.

4) Conversion of Prime Agricultural Land to Other Uses

If the project involves conversion of prime agricultural land to other uses, a description and map of the area to be converted along with a discussion of the necessity of utilizing prime agricultural land for the project must be provided.

5) Secondary Environmental Impacts

Projects which include an allowance for more than 30% reserve growth capacity in the present or projected service area must attach or include in planning documents a discussion of the potential secondary impacts of the proposed project(s) such as changes in the rate, density, type of development or use of open space, floodplain, or prime agricultural land. Also, the impacts of sensitive ecosystems due to induced growth must be evaluated and appropriate measures for mitigation proposed if necessary.

6) Designated Water Quality Management Agency (DWQMA) Consultation/Sign-off.

This is applicable only to wastewater or sewer projects located in one of the DWQMA Areas (See **Attachment B** - applicable counties and contact info below). Loan applicants located in GERPDC or SIPC's jurisdiction should contact their DWQMA to request comments on the scope of the proposed project and the future growth anticipated for the service area. IEPA will forward project information directly to CMAP for comments.

For projects which propose a change in a Facility Planning Area a sign-off must be obtained from the DWQMA, indicating that the proposed project is not in conflict with the Water Quality Management Plan. Request comments and sign-offs as necessary from the Agencies listed below.

Chicago Metropolitan Agency for Planning (CMAP)
233 South Wacker Drive
Suite 800
Chicago, Illinois 60606
(312) 454-0400
FAX (312) 454-0411
www.chicagoareaplanning.org

Counties: Cook, DuPage, Kane,
Kendall, Lake, McHenry, Will

Greater Egypt Regional Planning & Development Commission
3000 West DeYoung St.
Suite 800B-3
Marion, Illinois 62959
(618) 997-9351
FAX (618) 997-9354

Counties: Franklin,
Jefferson, Jackson,
Perry, Williamson

Southwestern Illinois Planning Commission
2511 Vandalia Street
Collinsville, Illinois 62234-5034
(618) 344-4250
FAX (618) 344-4253

Counties: Bond, Clinton, Madison
Monroe, Randolph, St. Clair,
Washington

7) Proposed Change to Facility Planning Area Boundaries

Consultation with the Illinois Department of Agriculture (IDOA) is required for wastewater projects requesting a change in the boundaries of a Facility Planning Area. Details on the information required by IDOA can be accessed on the internet at:

<http://www.agr.state.il.us/Environment/LandWater/FPAboundarychangerequest.pdf>

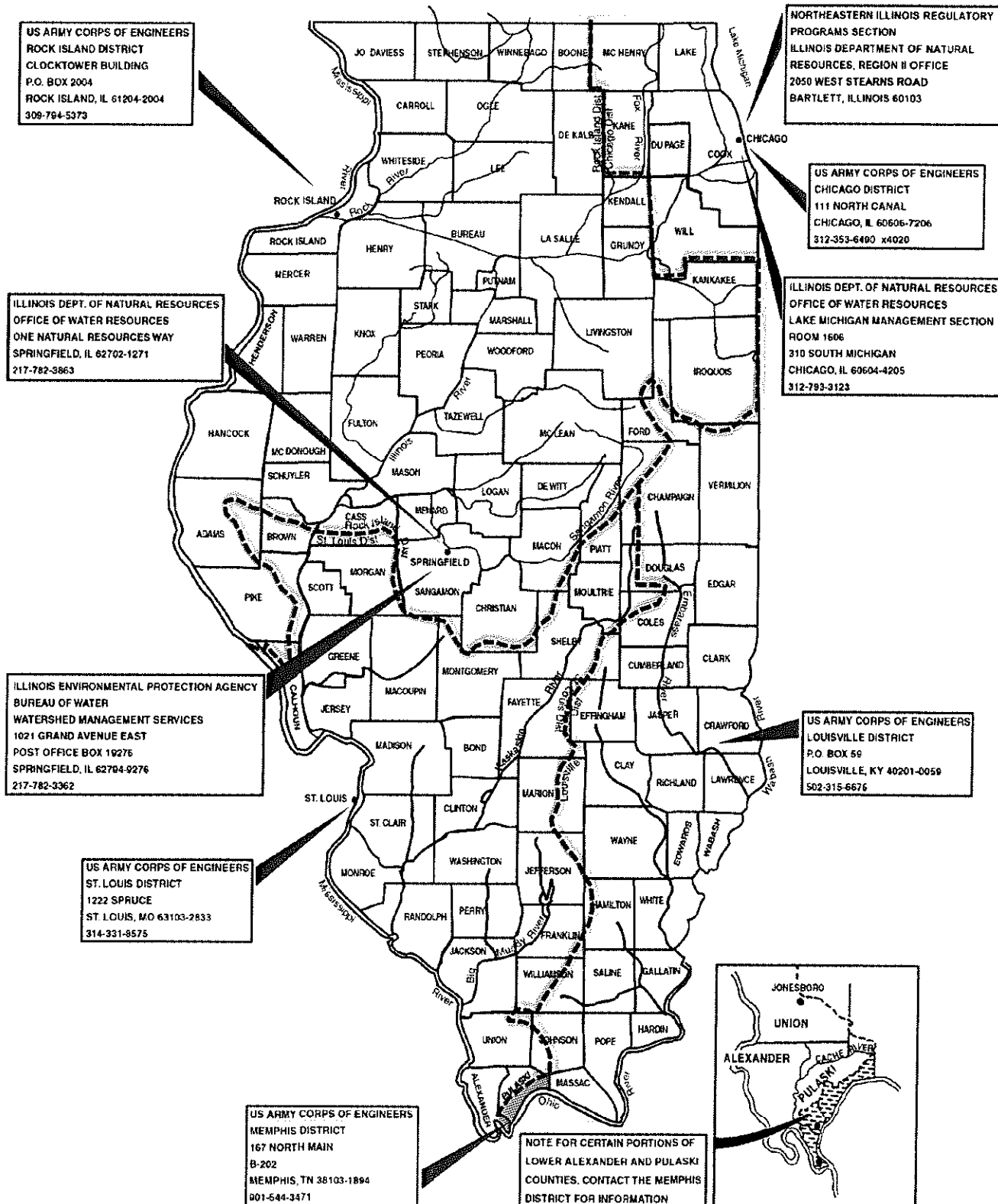
Or by writing or calling:

Illinois Department of Agriculture
Bureau of Land and Water Resources
P.O. Box 19281
State Fairgrounds
Springfield, IL 62794-9281

(217) 785-4389

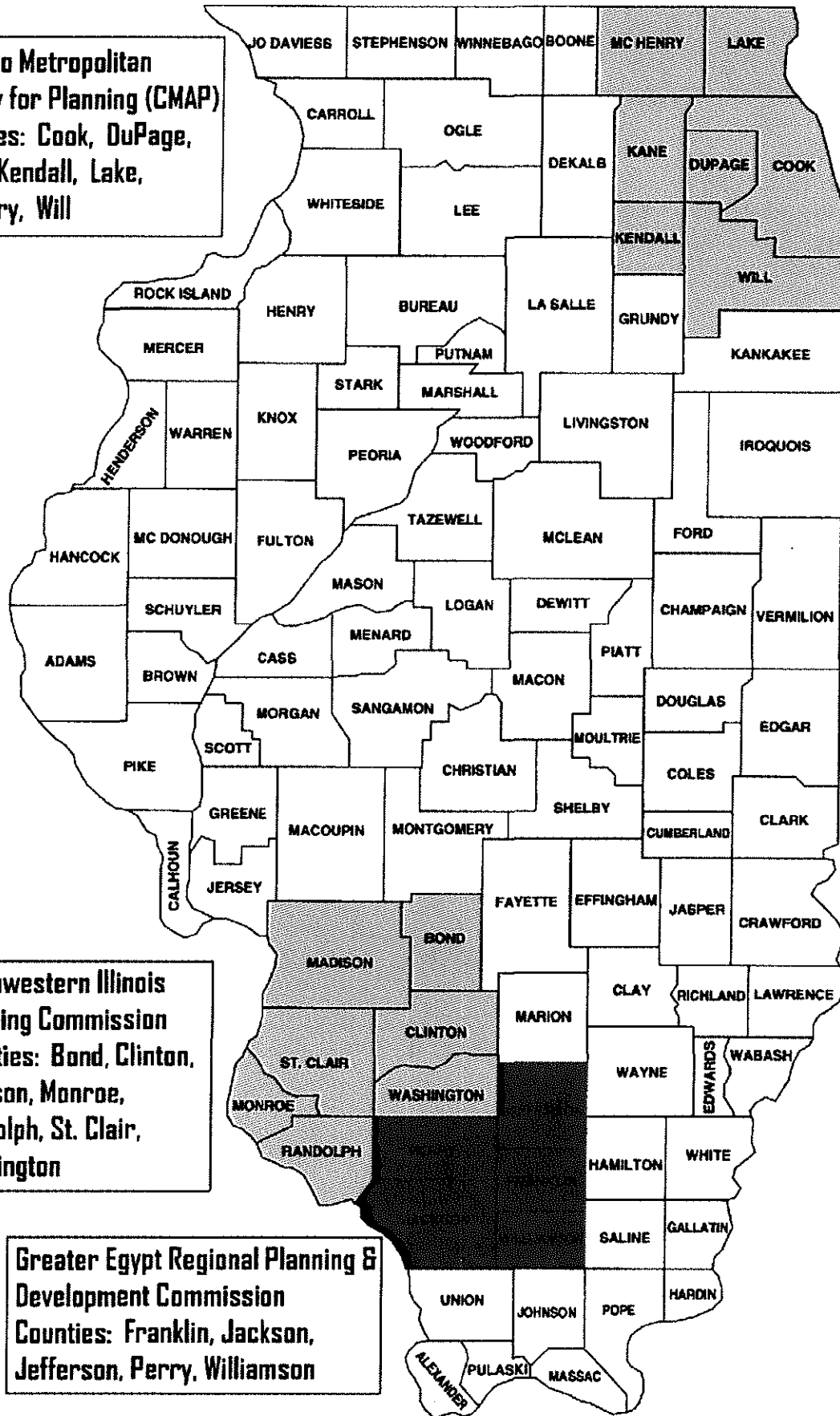
If you have any questions regarding this package, please contact the IEPA at 217/782-2027.

Attachment A REGULATORY JURISDICTIONAL BOUNDARIES



ATTACHMENT B

**Chicago Metropolitan
Agency for Planning (CMAP)**
Counties: Cook, DuPage,
Kane, Kendall, Lake,
McHenry, Will



**Southwestern Illinois
Planning Commission**
Counties: Bond, Clinton,
Madison, Monroe,
Randolph, St. Clair,
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Attachments: Exhibit 5_Updated 2019_0510.pdf

Hi Chris,

Per our conversation yesterday, attached is updated Exhibit 5 (Proposed Project), which includes updated project limits and shows both NWI wetlands and floodplain. The red lines represent new water mains (to be constructed within the pavement in the public ROW) and the black lines represent existing water main to remain in operation.

Please let me know if this addresses your concerns discussed yesterday. If it does, I will insert the revised exhibit into the Planning Report and send to you on Monday, as I'm out of the office the remainder of today. Thanks.

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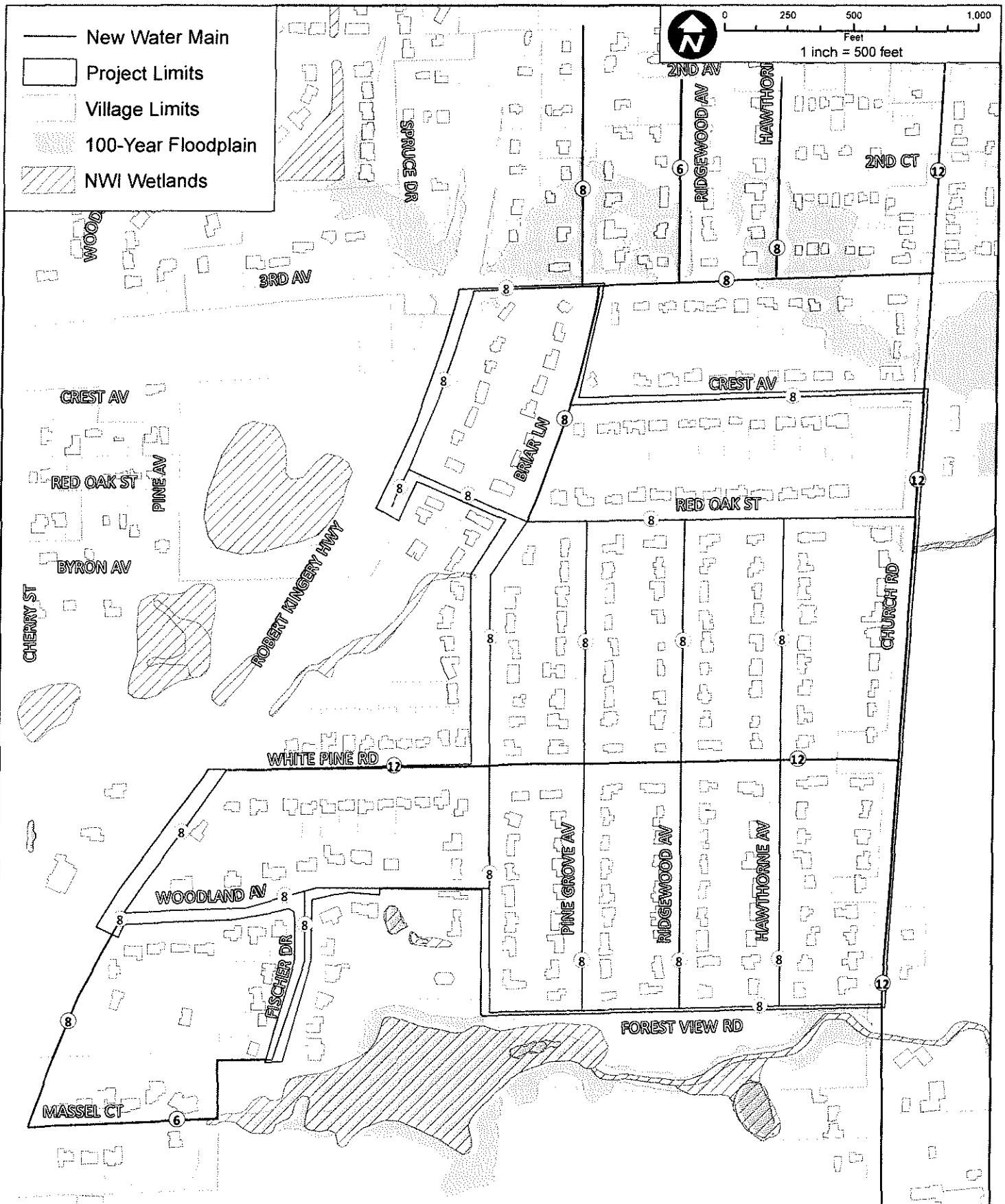
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CLIENT: VILLAGE OF BENSENVILLE		TITLE: WHITE PINES SUBDIVISION CHOSEN ALTERNATIVE		PROJ. NO. 120433	
				DATE: 12-11-14	
				SHEET 1 OF 1	
				DRAWING NO.	
CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500		DSGN: DWN: CHKD: FILE:	SCALE: 1:6000 AUTHOR: DWALTERS PLOT DATE: 5/10/2019 Chosen Alternative	EXH 5	

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, May 13, 2019 3:35 PM
To: Mehul Patel; Joseph Caracci
Cc: Alex Schaefer
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab
Attachments: Pre-Final_Discussion Items for Village_2019_0402.docx

Hi Mehul,

We reviewed the pre-final comments you had on the public portion of the White Pines project. We don't see anything major but just want to walk through them with you. We'd also like to talk through some of the questions we had leading up to the submittal (see attached) and make sure we're on the same page with those as well.

Are you available for a conference call between 10am and 2pm on Friday? Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Mehul Patel <MPatel@bensenville.il.us>
Sent: Tuesday, May 7, 2019 10:26 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: RE: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Bryan,

Attached please find the pre-final review comments. Let me know if you have any questions.

Mehul T. Patel, P.E., CFM

Assistant Director of Public Works

Village of Bensenville

630-594-1196

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, April 4, 2019 2:31 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Cc: Alex Schaefer <aschaefer@cbbel.com>
Subject: Pre-Final PS&E (Public Improvements) - White Pines Water Main Rehab

Hi Joe/Mehul,

The Pre-Final plans, specifications and estimate for the public improvements associated with the White Pines Water Main Rehab project can be downloaded [here](#). Also included with the pre-final documents is a Word document with a handful of items we're hoping the Village can provide input on as part of their pre-final review. Please let us know if you would like any plan hardcopies made and sent to your office.

The private water service work will be designed and incorporated into the plan set once the aerial survey has been completed and processed (anticipated late April).

Cost Estimate

You'll see that our construction cost estimate is approximately \$500k higher than what you last saw in January. This is due to the introduction of the following into the estimate:

- Contingency Items (to establish unit prices for work that may or may not be needed during construction): \$192,000
- Engineer's Field Office (per Village direction): \$20,000
- Contingency built into various quantities for flexibility during construction: \$219,000

The above counts for the majority of the cost increase. The other significant contributor, which you'll see on the plans, is very conservative driveway R&R quantities. Per my conversation with Mehul awhile back, we showed all driveways being removed and replaced back to the ROW line. If we changed our approach to only include the driveway aprons and/or what is needed to restore construction disturbances, the cost associated with these items would be significantly reduced.

Please let me know if you have any questions or need any additional information. I'm happy to sit down with you to discuss any aspects of the project in more detail, either prior to or after your review. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

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16221 W. 159th Street, Suite 201 | Lockport, IL 60441

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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Friday, May 10, 2019 8:14 AM
To: Bryan Welch
Cc: Joseph Caracci; Mehul Patel
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Thanks, I will call you next week.

From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, May 10, 2019 7:49 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: [External] RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

Per our conversation yesterday, attached is updated Exhibit 5 (Proposed Project), which includes updated project limits and shows both NWI wetlands and floodplain. The red lines represent new water mains (to be constructed within the pavement in the public ROW) and the black lines represent existing water main to remain in operation.

Please let me know if this addresses your concerns discussed yesterday. If it does, I will insert the revised exhibit into the Planning Report and send to you on Monday, as I'm out of the office the remainder of today. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com
www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 9, 2019 12:01 PM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Bryan,

I have attached the IEPA Loan Applicant Environmental Checklist and instructions. Items 2, 3 and Attachment A of the instructions explain what is needed and where to request comments for the environmental clearances. I am available to discuss the project anytime. My desk phone number is 217-785-6639.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 9, 2019 11:37 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Subject: [External] RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

I was wondering if you had 5 minutes today to chat about this project. I haven't run into having to get letters from the COE and IDNR beyond the EcoCAT terminations for IEPA loan projects that don't impact wetlands or floodplain,

so I just want to make sure I understand what you're looking for and who I should be talking to, so I can get the requested info as soon as possible. I think it will be helpful for this project as well as a couple other loan projects I'm working on. Please give me a call when convenient, or let me know how I can best reach you. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>

Sent: Wednesday, May 8, 2019 3:31 PM

To: Bryan Welch <bwelch@cbbel.com>

Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Bryan,

Your follow up below does not address my request for additional information.

We need Eco-CAT review results that include Part 1090 and have evaluated whether wetlands are present within 250 feet of any proposed construction areas. The Eco-CAT results that have been provided do not provide this information. If wetlands are near an IEPA loan project construction area, it becomes necessary for a determination from IDNR OWR and the U.S. Army Corps of Engineers (USACE) to see if the project is regulated by them. Although the 4-26-19 IDNR letter that you provided terminates the Eco-CAT Part 1090 wetlands review, this does not equate to a termination by IDNR OWR or USACE. Documentation from IDNR OWR and USACE must still be provided. If the IDNR OWR and USACE say the project is not regulated by them, Bensenville will only need to comply with the construction barrier and silt fence recommendation in the 4-26-19 IDNR Eco-CAT review letter. If the IDNR OWR and/or USACE determine that the project falls under their jurisdiction, Bensenville will be required to follow all permits, conditions and recommendations issued by them.

Because the 4-26-19 IDNR terminates the Eco-CAT Part 1090 review, I assume that their evaluation did determine that wetlands were present within 250 feet of the proposed construction areas. A new Eco-CAT review results will verify this. After your request for clarification, I went back and looked at the January 2015 planning report and found 2-12-14 Eco-CAT review results that show wetlands within 250 feet of the project location.

The original Bensenville planning report also included IDNR OWR comments, recommendations and Regional Permit No. 3, which was noted by item 4 of my 4-19-19 planning review letter. These recommendations are more specific than the 4-26-19 IDNR letter. This documents that IDNR OWR previously determined that the project does fall under their jurisdiction and is another reason why Bensenville must request comments for IDNR OWR and USACE.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>

Sent: Wednesday, May 8, 2019 1:41 PM

To: Nifong, Chris <Chris.Nifong@Illinois.gov>

Cc: Joe Caracci <JCaracci@bensenville.il.us> <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>

Subject: [External] RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

Please see my follow up below and let me know if they address your requests. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>

Sent: Wednesday, May 8, 2019 8:34 AM

To: Bryan Welch <bwelch@cbbel.com>

Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>

Subject: RE: Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Bryan,

I read your 5-8-19 letter in response to my 4-19-19 planning review letter. I still need the following information to complete the PEID:

1. **Item number 3. Provide a new IDNR Eco-CAT printout that includes both Part 1075 and Part 1090.** Per the comment response, the IDNR letter terminating both 1075 and 1090 was included in the report (page 42 of the PDF report I emailed and attached). We did not submit a revised EcoCAT subsequent to the November 2018 EcoCAT that is included in the report. When we noticed that IDNR inadvertently omitted the Part 1090 termination, we contacted Bradley Hayes at IDNR, who acknowledged the misunderstanding and issued the April 26, 2019 letter terminated both 1075 and 1090 based off of the November EcoCAT.
2. **Item number 4. Provide documentation from IDNR OWR that the project is no longer regulated by them.** Please clarify the request. I am not aware of any documentation IDNR provided indicating that the project is regulated by them. CBBEL referenced Regional Permit 3 in the 2015 planning report, but the area with floodplain is no longer in the current project area. There are no floodplains within the project limits, so there is nothing for them to regulate.
3. **Item number 5. Provide documentation from U.S. Army Corps of Engineers that the project does not fall under their jurisdiction.** Based on there being no wetlands in the project area, Part 1090 was terminated and USACOE jurisdiction has never been part of this project, please clarify this request.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>

Sent: Wednesday, May 8, 2019 7:47 AM

To: Nifong, Chris <Chris.Nifong@Illinois.gov>

Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>

Subject: [External] Revised Planning Report - L174402 - White Pines Water Main (Bensenville)

Hi Chris,

On behalf of the Village of Bensenville, CBBEL is submitting the attached revised Planning Report for L174402 (White Pines Water Main). This report has been revised based on comments received from you dated April 19, 2019. A comment disposition letter is also attached.

We will be mailing the comment disposition letter and 2 hardcopies of the revised Planning Report to your attention for approval. Please let me know if you have any questions or need anything else. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, May 24, 2019 11:10 AM
To: Nifong, Chris
Cc: Joseph Caracci; Mehul Patel
Subject: RE: Bensenville Water Main (1 of 2)

Hi Chris,

It doesn't appear that USACE is willing to provide an informal letter of no objection, so we would have to request a formal LONO. Our experience is that it typically takes several months to receive a LONO once requested from USACE.

However, I'm wondering if the IDNR email we recently provided indicating no wetland impacts would be sufficient to document for IEPA planning purposes that wetlands are not impacted by the project. As you know, any project using any State of Illinois funding requires review under the IDNR Interagency Wetland Policy Act (IWPA) and an authorization from IDNR if any wetlands are impacted. Since IDNR has determined that there will be no wetland impacts of any kind as a result of this project, it seems logical to conclude that there will also be no regulated wetland impacts that would fall under the jurisdiction of the USACE.

Please let me know if you think the info provided by IDNR would be sufficient to substantiate for IEPA that there will be no wetland impacts associated with this project. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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From: Bryan Welch
Sent: Friday, May 24, 2019 7:10 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>; Mehul Patel <MPatel@bensenville.il.us>
Subject: FW: Bensenville Water Main (1 of 2)

Hi Chris,

Below is email confirmation from IDNR that they do not have jurisdiction over the White Pines project, per your request. Waiting on similar info from USACE and will forward that when I have it. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

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Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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From: Thomas McArdle <tmcardle@cbbel.com>
Sent: Thursday, May 23, 2019 8:39 AM
To: Bryan Welch <bwelch@cbbel.com>
Subject: FW: Bensenville Water Main (1 of 2)

From: Hayes, Bradley <Bradley.Hayes@illinois.gov>
Sent: Wednesday, May 22, 2019 4:01 PM
To: Thomas McArdle <tmcardle@cbbel.com>
Subject: RE: Bensenville Water Main (1 of 2)

Hello Thomas,

The Department concurs that no wetland impacts are likely with this project, and that your project does not require any additional mitigation or permitting in regards to the Illinois Interagency Wetland Policy Act.
Thanks,

Brad Hayes
Resource Planner
Division of Real Estate Services and Consultation
Office of Realty & Capital Planning
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, IL 62702
Bradley.Hayes@illinois.gov
Phone: (217) 782-0031

From: Thomas McArdle <tmcardle@cbbel.com>
Sent: Wednesday, May 22, 2019 1:17 PM
To: Rawe, Adam <Adam.Rawe@illinois.gov>
Subject: [External] Bensenville Water Main (1 of 2)

Hello Adam:

We are working on a water main project in the Village Bensenville, IL. The water main will be constructed within the existing roadway pavement and ground elevations will be restored to pre-project conditions as part of the work (no changes to existing grade).

The Village is pursuing IEPA loan funds for this project and as part of the IEPA planning review, the IEPA has asked for confirmation from USACOE and IDNR confirming that wetland permits from them are not required. This confirmation could be as simple as an email reply indicating that a permit will not be required by IDNR for this activity.

I have attached a copy of the engineering plans showing the existing wetlands that will be avoided and silt fence locations to prevent indirect adverse impacts.

I also attached the EcoCAT review letter which terminated Part 1075 and 1090.

I would greatly appreciate it if you could look at the attached information and send me a short email documenting that no IDNR permit regarding wetlands is required.

Please let me know if you have any questions or need additional information.

Thanks.

Thomas G. McArdle

Manager, Environmental Resources Department

Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600 Rosemont, IL 60018

Phone: (847) 823-0500 Fax: (847) 318-9793 Cell: (847) 417-2126

E-Mail: tmcardle@cbbel.com

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Sent: Friday, May 24, 2019 7:10 AM
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Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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Subject: FW: Bensenville Water Main (1 of 2)

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Sent: Wednesday, May 22, 2019 4:01 PM
To: Thomas McArdle <tmcardle@cbbel.com>
Subject: RE: Bensenville Water Main (1 of 2)

Hello Thomas,

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Thanks,

Brad Hayes
Resource Planner
Division of Real Estate Services and Consultation
Office of Realty & Capital Planning
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, IL 62702
Bradley.Hayes@illinois.gov
Phone: (217) 782-0031

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To: Rawe, Adam <Adam.Rawe@illinois.gov>
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Thanks.

Thomas G. McArdle

Manager, Environmental Resources Department

Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600 Rosemont, IL 60018

Phone: (847) 823-0500 Fax: (847) 318-9793 Cell: (847) 417-2126

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Sent: Friday, May 24, 2019 11:34 AM
To: Bryan Welch
Cc: Joseph Caracci; Mehul Patel
Subject: RE: Bensenville Water Main (1 of 2)

Bryan,

Let me talk to my manager when she returns on Monday and I will get back to you.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, May 24, 2019 11:10 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
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Subject: [External] RE: Bensenville Water Main (1 of 2)

Hi Chris,

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Please let me know if you think the info provided by IDNR would be sufficient to substantiate for IEPA that there will be no wetland impacts associated with this project. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
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From: Bryan Welch
Sent: Friday, May 24, 2019 7:10 AM
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Bryan Welch, PE
Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.
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Hello Thomas,

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Thanks,

Brad Hayes
Resource Planner
Division of Real Estate Services and Consultation
Office of Realty & Capital Planning
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, IL 62702
Bradley.Hayes@illinois.gov
Phone: (217) 782-0031

From: Thomas McArdle <tmcardle@cbbel.com>
Sent: Wednesday, May 22, 2019 1:17 PM
To: Rawe, Adam <Adam.Rawe@illinois.gov>
Subject: [External] Bensenville Water Main (1 of 2)

Hello Adam:

We are working on a water main project in the Village Bensenville, IL. The water main will be constructed within the existing roadway pavement and ground elevations will be restored to pre-project conditions as part of the work (no changes to existing grade).

The Village is pursuing IEPA loan funds for this project and as part of the IEPA planning review, the IEPA has asked for confirmation from USACOE and IDNR confirming that wetland permits from them are not required. This confirmation could be as simple as an email reply indicating that a permit will not be required by IDNR for this activity.

I have attached a copy of the engineering plans showing the existing wetlands that will be avoided and silt fence locations to prevent indirect adverse impacts.

I also attached the EcoCAT review letter which terminated Part 1075 and 1090.

I would greatly appreciate it if you could look at the attached information and send me a short email documenting that no IDNR permit regarding wetlands is required.

Please let me know if you have any questions or need additional information.

Thanks.

Thomas G. McArdle

Manager, Environmental Resources Department

Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600 Rosemont, IL 60018

Phone: (847) 823-0500 Fax: (847) 318-9793 Cell: (847) 417-2126

E-Mail: tmcardle@cbbel.com

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, May 24, 2019 3:16 PM
To: Nifong, Chris
Cc: Mehul Patel; Joseph Caracci
Subject: FW: Bensenville Water Main (1 of 2)
Attachments: CR Nifong Planning Report Comment Response_2019_0508.pdf

Hi Chris,

CBBEL was able to contact someone at USACE to do an informal review and concur that no USACE involvement will be necessary. Please see below.

Can you please confirm that the information provided addresses your concerns about CBBEL's May 8th comment response letter and whether any additional information or follow-up is required? If not, we will resubmit the Project Plan to you next week. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Thomas McArdle <tmcardle@cbbel.com>
Sent: Friday, May 24, 2019 1:47 PM
To: Bryan Welch <bwelch@cbbel.com>
Subject: Fwd: Bensenville Water Main (1 of 2)

Sent from my iPhone

Begin forwarded message:

From: "Machalek, Michael J CIV USARMY CELRC (US)" <Mike.J.Machalek@usace.army.mil>
Date: May 24, 2019 at 1:29:11 PM CDT
To: Thomas McArdle <tmcardle@cbbel.com>
Subject: RE: Bensenville Water Main (1 of 2)

Tom, after reviewing the plans, I concur with your findings that no permit is required as there is no work in any wetlands.

Thanks,

Michael J. Machalek
Senior Enforcement Officer
U.S. Army Corps of Engineers
Regulatory Branch
231 S LaSalle St, Suite 1500
Chicago, Illinois 60604

-----Original Message-----

From: Thomas McArdle [mailto:tmcardle@cbbel.com]

Sent: Wednesday, May 22, 2019 1:27 PM

To: Machalek, Michael J CIV USARMY CELRC (US) <Mike.J.Machalek@usace.army.mil>

Subject: [Non-DoD Source] Bensenville Water Main (1 of 2)

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Your assistance is appreciated.

Thanks.

Tom

Thomas G. McArdle

Manager, Environmental Resources Department

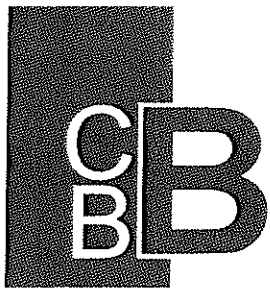
Christopher B. Burke Engineering, Ltd.

9575 W. Higgins Road, Suite 600 Rosemont, IL 60018

Phone: (847) 823-0500 Fax: (847) 318-9793 Cell: (847) 417-2126

E-Mail: tmcardle@cbbel.com <<mailto:tmcardle@cbbel.com>>

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

May 8, 2019

Illinois Environmental Protection Agency
1021 North Grand Avenue East
PO Box 19276
Springfield, IL 62794

Attention: **Chris Nifong, Project Manager**

Subject: **Bensenville – L1704402 (White Pines Water Main Replacement)
April 2019 Facility Plan Review – Comment Response**

Dear Mr. Nifong:

The enclosed submittal has been revised per the Facility Plan review comments received in the letter dated April 19, 2019 for the subject project.

Comment 1: Page 3 of the planning report indicates the project will identify and replace lead water services in the project area. Have the water services being replaced been identified as being lead service lines? Please note that lead service line replacement work currently qualifies for additional IEPA Loan Program incentives. Bensenville will need to identify and track costs associated with lead service line replacements to qualify for the incentives. Please explain how this will be done.

Response 1: The Village has performed potholes of existing services at select locations within the project limits and has yet to encounter a lead service on the public or private side. Therefore, very few or no lead services are anticipated to be encountered during the project construction. However, the Village remains committed to removing any lead services encountered to the house.

Comment 2: The Preliminary Estimate of Cost (Exhibit 6) indicates that the project will include construction of 812 feet of 6-inch diameter water main. However, the planning report does not mention construction of 6-inch water main and the proposed project map (Exhibit 5) shows that only 8-inch diameter water main is being constructed. Please explain whether 6-inch water main is being constructed and revise Exhibit 5, if necessary.

Response 2: The 6-inch diameter water main included in the cost estimate is solely associated with the proposed fire hydrant leads. All proposed distribution main will be 8-inch.

Comment 3: For all proposed construction areas, please provide records of consultation from the Illinois Department of Natural Resources (IDNR) to document compliance with Illinois Endangered Species Act (Part 1075) and the Wetlands Protection Act (Part 1090) as requested by number 2) of the IEPA Loan Applicant Environmental Checklist. The 11-1-18 Eco-CAT results and 11-14-18 IDNR follow up letter do not include evaluation results for Part 1090 (wetlands review). Please provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

Response 3: CBBEL contacted IDNR upon to receiving IEPA's comment letter and confirmed that there was a miscommunication that resulted in the Wetland Consultation (Part 1090) not being prepared or terminated. IDNR subsequently issued a revised letter (enclosed) terminating both Part 1075 and 1090 of the consultation. This letter has been incorporated into the Planning Report.

Additionally, the recommended protective measures (construction barrier and silt fence) to prevent adverse effects to nearby natural habitat will be incorporated into the contract plans and specifications.

Comment 4: Because part of the project includes construction in or near a stream bank, floodway and/or wetland the project may require a permit from the Illinois Department of Natural Resources (IDNR) Office of Water Resources (OWR) to document compliance with the Illinois Lakes, Rivers, and Streams Act and Section 404 of the Federal Clean Water Act as requested by number 3) of the IEPA Loan Applicant Environmental Checklist. The previous planning report included comments, recommendations, and Regional Permit No. 3 from the OWR. However, the 2019 planning report does not include this information or documentation that the previous IDNR review is no longer valid. Please submit the project information to IDNR OWR, provide a copy of all correspondence between the Village of Bensenville and IDNR, any permits, conditions, or recommendations issued by IDNR, and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding and contract specifications.

Response 4: There are no floodplain impacts anticipated with this project, as the work referenced in the Planning Report near the intersection of 3rd Avenue and Church Avenue

is no longer proposed. The "Impacts to Floodplains" section on Page 12 of the Planning Report has been revised accordingly.

Comment 5: Because part of the project apparently includes construction in or near a stream bank, floodway and/or wetland, please provide records of consultation from the U.S. Army Corps of Engineers as indicated by number 3) of the IEPA Loan Applicant Environmental Checklist. Please provide a copy of all correspondence between the Village of Bensenville and U.S. Army Corps of Engineers, any permits, conditions, or recommendations issued by the Corps and written verification that Bensenville intends to comply with them and that they will be incorporated into project bidding specifications.

Response 5: No construction is proposed within or near a streambank, floodway and/or wetland. Please see Response 3 related to IDNR Wetland Consultation (Part 1090) termination.

Comment 6: Please provide a copy of the IEPA construction permit for the project or indicate the status of the permit application.

Response 6: We anticipate that pre-final plans and specifications will be submitted to IEPA for construction permit review in June 2019. This submittal will be coordinated with Chris Nifong to ensure it is reviewed by the proper IEPA staff in conjunction with the processing of the loan.

Comment 7: Section 662.210 d) of the IEPA PWS loan program rules allows projects a 0.2% environmental discount reduction to the standard loan interest rate, if at least 50% of eligible project costs fund any of the eligible categories: green infrastructure, lowering water demand, energy reduction, and removal or replacement of lead water mains or service lines. If you believe the project meets the environmental discount criteria, please provide a letter signed by a P.E. that explains how at least 50% of the IEPA loan eligible project costs are to fund any of the listed qualifying components.

Response 7: The Village's project does not meet the criteria that 50% of eligible costs fall under the categories listed above, so the project is not eligible for the environmental discount reduction.

Comment 8: It appears that this project will qualify for a thirty-year loan repayment period based on the life expectancy for transmission and distribution system pipe, and assuming Bensenville qualifies for the Small

Community interest rate. Please indicate if Bensenville wants to use a 30-year loan repayment period for this project.

Response 8: The Village wishes to maintain a 20-year loan term for this project.

Please feel free to contact me with any questions or requests for additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. Welch', with a stylized, cursive script.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design

Enclosures as Noted

From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, May 28, 2019 8:55 AM
To: Nifong, Chris
Cc: Mehul Patel; Joseph Caracci
Subject: RE: Bensenville Water Main (1 of 2)
Attachments: FW: Bensenville Water Main (1 of 2); FW: Bensenville Water Main (2 of 2)

Hi Chris,

Attached are the two emails we sent to IDNR (they were split up due to file size). I will send the USACE emails and attachments separately. Please let me know if you need anything else.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Friday, May 24, 2019 3:56 PM
To: Bryan Welch <bwelch@cbbel.com>
Cc: Mehul Patel <MPatel@bensenville.il.us>; Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: RE: Bensenville Water Main (1 of 2)

Bryan,

Just email me a copy of the attachments that you sent to IDNR OWR and USACE that they used to make their determinations. I will go over it with my manager next Tuesday and get back to you. I forgot that we will not be here Monday.

I don't see any reason for you to resubmit the project plan again, unless you are going to revise your responses to items 4 and 5 to explain the email statements from IDNR and USACE that indicate no permits are required for the project.

Thanks, Chris Nifong

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Sent: Friday, May 24, 2019 3:16 PM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>
Cc: Mehul Patel <MPatel@bensenville.il.us>; Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: [External] FW: Bensenville Water Main (1 of 2)

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Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Thomas McArdle <tmcardle@cbbel.com>
Sent: Friday, May 24, 2019 1:47 PM
To: Bryan Welch <bwelch@cbbel.com>
Subject: Fwd: Bensenville Water Main (1 of 2)

Sent from my iPhone

Begin forwarded message:

From: "Machalek, Michael J CIV USARMY CELRC (US)" <Mike.J.Machalek@usace.army.mil>
Date: May 24, 2019 at 1:29:11 PM CDT
To: Thomas McArdle <tmcardle@cbbel.com>
Subject: RE: Bensenville Water Main (1 of 2)

Tom, after reviewing the plans, I concur with your findings that no permit is required as there is no work in any wetlands.

Thanks,

Michael J. Machalek
Senior Enforcement Officer
U.S. Army Corps of Engineers
Regulatory Branch
231 S LaSalle St, Suite 1500
Chicago, Illinois 60604

-----Original Message-----

From: Thomas McArdle [<mailto:tmcardle@cbbel.com>]
Sent: Wednesday, May 22, 2019 1:27 PM
To: Machalek, Michael J CIV USARMY CELRC (US) <Mike.J.Machalek@usace.army.mil>
Subject: [Non-DoD Source] Bensenville Water Main (1 of 2)

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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 30, 2019 2:33 PM
To: Bryan Welch; Joseph Caracci
Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

I was copied on the IDNR OWR environmental sign-off email, which was the last thing needed to finish the draft PEID. The attachment is the draft PEID for the Bensenville project. Please review it and give me any comments and corrections that you have. Also, verify when the new White Pines user charges will take effect. Please return your comments to me by next Tuesday, because this will have to be approved by my manager and she will be away from work the following week.

Thanks, Chris Nifong

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Project Summary and Environmental Assessment

The Village of Bensenville has applied to the Illinois Environmental Protection Agency's (IEPA) Public Water supply loan program to request funding to help finance a drinking water distribution system project. The following project summary and environmental assessment has been prepared by the IEPA to assist the loan applicant comply with the public notice requirements. This report is based on information submitted by the Village of Bensenville. Sources of information include the following documents: Village of Bensenville, White Pines Area Watermain Replacement Project report, dated February 1, 2019 with February 5, 2019 transmittal letter, and in response to the April 19, 2019 IEPA Facility Plan Review letter, the May 8, 2019 letter, which were prepared by Christopher B. Burke Engineering, Ltd.

Part I – Project Information

Project Name: Bensenville White Pines Area water main replacement

Loan Applicant: Village of Bensenville

County: DuPage

Project Number: L174402

Current Population Served: 19,250

Future Population (20 year): 19,250

Project Description: This project is to replace parts of the existing White Pines Area water distribution system, which may include lead service lines. The project consists of the construction of approximately 16,923 feet of 8-inch diameter and 823 feet of 6-inch diameter water main, valves, valve vaults, fire hydrants, copper water services, abandonment of existing water mains, and construction area restoration.

Project Location: The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville. The boundaries of the area are Illinois Route 83 on the west, Church Road on the east, Third Avenue on the north and Forest View Road on the south. All water mains within this area will be replaced. The proposed water main construction locations are shown on Attachment A.

Project Justification: The existing water mains are over seventy years old and are reaching the end of their useful service life. There have been over 150 water main breaks within the last 30 years in this area, the mains are undersized for fire flows and most are located in the back yards of residential homes, which increases repair costs and difficulty for access. The proposed project will relocate the water mains into public right-of-ways to provide access, reduce the number of water main breaks and related costs, provide adequate fire flows, improve water pressure and provide a safe and reliable source of drinking water for many years.

Estimated Construction Start Date: January 2020

Estimated Construction Completion Date: November 2021

Project Cost Estimate: \$7,870,000

Part II – Environmental Issues Associated With the Project

Project construction impacts: The construction impacts associated with the project will be typical of water main construction. The construction will cause some minor erosion and wind-blown dust from excavated materials. There will also be the normal noises associated with this type of construction. Additionally, during construction there will be temporary disruption of normal traffic patterns due to the movement of construction vehicles and the delivery of materials to the construction sites. Issues with noise, dust and storm water controls can be minimized by specifications and conditions within the construction contract documents. All water main construction will take place in the County or State right-of-way. The old water mains will be abandoned in place.

Illinois Department of Natural Resources: The loan applicant submitted project information to the Illinois Department of Natural Resources (IDNR) EcoCAT website to determine compliance with the Illinois Endangered Species Act, Illinois Natural Areas Preservation Act and the Illinois Wetlands Act. The review results indicated that protected resources may be in the vicinity of the locations submitted and the project will be evaluated further. An April 26, 2019 letter by IDNR states that based on additional evaluation, adverse effects are unlikely and terminated their consultation for 17 Ill. Adm. Code Parts 1075 and 1090. This indicates that there are no anticipated impacts to threatened and endangered species, wetlands or other natural areas from the proposed project. However, the IDNR letter also recommends a construction barrier and silt fence be utilized to keep workers within the project site and to protect Fischer Woods, which is an Illinois Natural Area and habitat for state-listed species. The Village of Bensenville will be required to incorporate all environmental protective and mitigative measures into the design documents and bidding specifications/project manual for the project.

Because the project appears to be located adjacent to wetlands and/or floodways, project information was also submitted to the IDNR Office of Water Resources (OWR) to evaluate whether the project is under their jurisdiction or regulated by the Illinois Lakes, Rivers and Streams Act. A May 30, 2019 email from the IDNR OWR indicates that the none of the proposed water mains are located within a jurisdictional floodway and therefore, an IDNR OWR permit is not required.

United States Army Corps of Engineers: The Village of Bensenville submitted their project information to the U.S. Army Corps of Engineers (USACE) for their review and determination of requirements related to placement, or excavation, of any dredged or fill materials into rivers, lakes, ponds, large and small streams with perennial, intermittent or ephemeral flow, artificial water bodies and wetlands adjacent to these waters and associated permitting. The U.S. Army Corps of Engineers Chicago District Office email dated May 24, 2019, indicates the that the proposed water main replacement project does not require a Section 404 Permit under the Federal Clean Water Act requirements.

Illinois Historic Preservation Division of IDNR: An IDNR letter dated November 28, 2018 indicates that there are no anticipated impacts to historic, architectural, and archaeological resources from the proposed project and that it complies with Section 106 of the National Historic Preservation Act of 1966.

Part III – Project Implementation and Affordability for Residents and Utility Customers

The estimated costs for the project are:

Construction	\$6,200,000
Contingency (10%)	\$620,000
Design Engineering	\$450,000
Construction Engineering	\$500,000
Legal	\$100,000
Total Project	\$7,870,000

The applicant is proposing to finance the project costs with a loan from the Public Water Supply Loan Program (PWSLP). The total estimated cost for the project is \$7,870,000. Bensenville indicates there is a \$900,000 balance in an Unincorporated Area Fund that will be used to pay a portion of the total projects. After subtracting the \$900,000 from the estimated project costs, the remaining estimated IEPA loan amount totals \$6,970,000. A \$6,970,000 loan, with an estimated interest rate of 1.84% for a twenty-year period, would have an annual repayment of approximately \$416,812. If the annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1561.10 per year, which equals \$130.09 per month.

The current loan program interest rate is 1.84%. The interest rate adjusts annually on July 1st. All loans are subject to the interest rate in effect at the time a loan agreement is issued. The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness, and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualification are found in Sections 662.210 and 662.250 of the Procedures for Issuing Loans from the PWSLP which is available on the Agency's website. The final decision for incentive qualification will be determined at the time a loan agreement is issued using updated Census Bureau and Department of Labor data. Using current data, the Village of Bensenville is eligible to receive a 1.38% small community interest rate and principal forgiveness of 75% of the initial loan up to a maximum of \$1,500,000. The Agency adjusts qualifying criteria annually on July 1st and the community specific information is also subject to change. Applicants that qualify for principal forgiveness will not have a repayment obligation for a portion of their loan. Principal forgiveness and/or a reduced interest rate will reduce the loan payment amount and possibly the associated increases to the user charges. Principal forgiveness is not guaranteed until a loan agreement is issued.

If the Village of Bensenville does receive the above referenced IEPA loan program incentive reductions, the possible cost savings to the estimated loan repayments can be calculated as follows: the maximum amount of principal forgiveness would subtract \$1,500,000 from the \$6,970,000 estimated initial loan amount, which would leave \$5,470,000 of remaining project costs to be repaid. A \$5,470,000 loan with an estimated interest rate of 1.38% for a twenty (20) year period, would have an annual repayment of approximately \$313,133. If this annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1173.00 per year, which equals \$98.00 per month.

Source of Loan Repayment: The Village of Bensenville intends to repay the loan by increasing the water user charges for only the White Pines Area water service customers. This project will not impact the water charges for existing Bensenville water service customers located within the corporate limits. For customers located in the White Pines Area, there will be two water service categories and associated water use charges that depend on whether the property owner decides to have their property annexed into the Village of Bensenville or remain unincorporated. If the property owner elects to annex into the Village, they will pay the the current “Within the Corporate Limits” user charges, plus a monthly \$50 fee (\$25 for people age 65 and older) for the first five years, and additional property taxes, that will also be used to repay the IEPA loan. After the five years, the incorporated White Pines Area customers will pay the same water user charges as the customers located within the corporate limits.

If the property owner elects to remain unincorporated, the White Pines Area “Outside the Corporate Limits” user charges will be set at 275% of the Village incorporated user charges. The customers who choose to remain unincorporated will continue to not pay property taxes to the Village of Bensenville. The new White Pines Area user charges will be implemented once project construction has started (Verify when the White Pines user charges will take effect).

Current Average Monthly Residential Cost of Service: The current unincorporated user charges are calculated at 150% of the incorporated user charges. An average residential customer located in the White Pines project area reportedly uses approximately 4,000 gallons per month. A White Pines Area customer who has a $\frac{5}{8}$ and $\frac{3}{4}$ -inch meter and uses 4,000 gallons of water per month, would currently pay \$75.00 per month for water service.

How is the monthly residential rate/cost of service calculated? Bensenville’s current water user charges and rates are determined by whether the customer is located within the Village limits or outside of the Village and the size of the water meter.

The current “Within the Corporate Limits” water user charge system is based on a monthly fixed service charge depending on the size of the meter, which is \$10.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$10.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.00 for amounts used above 10,000 gallons. For an average Within the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$10.00 + (\$10.00 \times 4) = \$50.00$ per month.

The current “Outside the Corporate Limits” water user charge system is based. on a monthly fixed service charge depending on the size of the meter, which is \$15.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$15.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.74 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$15.00 + (\$15.00 \times 4) = \$75.00$ per month.

Projected Average Monthly Residential Cost of Service: Based on the source of loan repayment proposed by the Village, the projected water service costs for White Pines Area properties that elect to annex will pay the current Within the Corporate Limits user charges, plus the \$50.00 “five-year fee”, plus pay additional property taxes to Bensenville. The additional property taxes for a home valued at \$230,931 are estimated to be \$736.82 per year, which equals \$61.40 per month. For an average customer who uses 4,000 gallons, this calculates to: $\$10.00 +$

$(\$10.00 \times 4) + \$50 + \$61.40 = \161.40 per month. After five years the \$50 fee expires, which results in the monthly water user cost decreasing to \$111.40 per month.

White Pines Area properties that elect to remain unincorporated will pay 275% of the current "Within the Corporate Limits". The projected Outside the Corporate Limits user charges are a monthly fixed service charge depending on the size of the meter, which will be \$27.50 for 5/8 and 3/4-inch meters, plus a water rate of \$27.50 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$33.00 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$27.50 + (\$27.50 \times 4) = \$137.50/\text{month}$.

Number of Customers or Service Connections: The Bensenville water distribution system serves approximately 18,500 people within the Village corporate limits and approximately 750 people in the White Pines unincorporated area, for a total population of 19,250. There are approximately 3,928 residential, 434 commercial and 776 industrial water customers billed by the water system. There are 267 billed customers located in the White Pines area. The White Pines area has an additional 13 parcels that do not have a record of public water service and are assumed to be supplied by private water wells.

Median Household Income (MHI): The MHI for Bensenville is \$62,286. The MHI for DuPage County is \$81,521. Because the White Pines Area is located in an unincorporated section of DuPage County, the County MHI will be used to calculate the financial impact.

Financial Impact of the proposed project: In order to determine the financial impact of the proposed project on the community, a percentage comparison of the MHI to the annual cost for water service is utilized. According to the current fiscal year census information, the MHI for DuPage County (the White Pines Area service area) is \$81,521. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, including the monthly \$50 five-year fee is \$1,936.80 ($\$161.40 \times 12$ months), which is 2.38 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, after the monthly \$50 five-year fee expires is \$1,336.80 ($\111.40×12 months), which is 1.64 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Outside the Corporate Limits water user is \$1,650.00 ($\137.50×12 months), which is 2.02 percent of the MHI for the area. Any amount less than 2.0 percent is considered to be affordable under State and Federal loan program criteria.

Public comments are invited on the proposed project. For further information contact:

Chris Nifong, Project Manager
Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

(217)782-2027

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 30, 2019 3:59 PM
To: Bryan Welch; Joseph Caracci
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan,

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I will be out tomorrow.

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Thanks.

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Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
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Sent: Friday, May 31, 2019 7:58 AM
To: Joseph Caracci
Subject: FW: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: White Pines Report_2019_0531_DRAFT.doc

Hi Joe,

After getting Chris's input regarding potential issues with increased construction costs on the loan issuance, I think we should just go ahead and revise the Planning Report with the current estimate of \$6.7M in construction, which is \$500k higher than we gave him back in February. As we discussed, much of this increase is related to uncertainty in the cost of private service replacements and the addition of some contingency work that may or may not be required depending on field conditions, operability of existing valves, required driveway R&R limits, etc.

I went ahead and made revisions to the Planning Report so you can see what the impact will be. Basically, we are showing an additional \$35,000 per year in debt service, which would come out of the Village water/sewer fund. As you and I discussed yesterday, the actual debt service is anticipated to be much lower than what is shown in the Planning Report, based on anticipated small community reduced interest rate and \$1.5M in principal forgiveness.

Please review and let me know what you think. Thanks.

Bryan Welch, PE
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VILLAGE OF BENSENVILLE
WHITE PINES WATER MAIN REPLACEMENT PROJECT

PROJECT PLAN REPORT

IEPA No. L174402

prepared for

VILLAGE OF BENSENVILLE
12 South Center Street
Bensenville, IL 60106

May 231, 2019

(CBBEL PROJECT NO. 12-0433.00005)

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5	Proposed Project
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CHAPTER 1

INTRODUCTION

The existing water system of the Village of Bensenville (Village) has provided reliable water service to the Village and surrounding unincorporated neighborhoods for many years. However, due to the age and condition of the water system, there are facilities that need immediate rehabilitation/replacement in order to continue to provide an adequate and reliable water service to the community. This report focuses on replacement of the existing aging water main network within the unincorporated White Pines Area, which is served by the Village's water distribution system. In order to implement the much-needed water system improvements, the Village is seeking financial assistance from the Illinois Environmental Protection Agency's (IEPA) Public Water Supply Loan Program (PWSLP).

Project Area

The Village of Bensenville is located approximately 17 miles northwest of the Chicago Loop and immediately west of the Chicago O'Hare International Airport. The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville. Exhibit 1 shows a vicinity map of the Village of Bensenville. Exhibit 2 illustrates the existing water system within the White Pines Area.

Need for the Project

From available information, it is estimated that significant portions of the White Pines Area water system have been in service for well over 70 years. Although this portion of the water distribution system has provided an adequate level of service to the community over the years, it has deteriorated to the point of reaching the end of its useful service life. The water mains throughout the area experience extensive water main breaks, including 150+ breaks since 1986 (see Exhibit 3). The majority of the existing mains are located within the rear yards of residential homes, which makes access to repairs difficult and costly. Additionally, fire flow issues have been experienced at various locations within the area due to the age of the mains and their being undersized (primarily 6"-diameter). In fact, three homes in the subdivision have burned down in the last three years due in large part to insufficient fire flow availability. A newspaper article from the most recent fire, which occurred in June 2018, is included in Appendix E.

The water mains are being recommended for replacement due to their present state of deterioration, lack of accessibility for maintenance, high maintenance costs, inability to provide proper fire protection and being undersized based on current standards. The White Pines Water Main Replacement project (Project) is needed to:

- Relocate the water mains into public rights-of-way to provide better maintenance access
- Reduce the number of water main breaks and associated repair costs
- Reduce the amount of water loss due to leakage and breaks that result in lost revenues as well as additional pumping costs
- Abandon and replace lead services with copper services
- Provide adequate fire flows throughout the area
- Improve water pressure within the system
- Ensure an adequate, safe and reliable source of water to residents for years to come

Study Purpose and Scope

As previously outlined, there is an urgent need for this water main replacement project. After considering their options to finance the project, the Village has decided to apply for financial assistance from the IEPA PWSLP. The Safe Drinking Water Act (SDWA) Amendments of 1996 (Pub.L.104-182) authorize a Public Water Supply Loan Program (PWSLP) to assist public water systems to finance costs of infrastructure needed to achieve or maintain compliance with SDWA requirements and to protect public health objectives of the Act. Section 1452 authorizes the Administrator of the U.S. Environmental Protection Agency (USEPA) to award capitalization grants to states, which in turn can provide low cost loans and other types of assistance to eligible systems under certain conditions established for the program. The IEPA is the state agency that administers loans through the PWSLP.

One of the key elements of the Loan Application is the submittal of a Project Plan by the loan applicant for approval by the IEPA. The project plan is prepared in accordance with the planning requirements developed for the federal grants program. This report has been prepared to meet these planning requirements for eligibility to receive financial assistance through the IEPA PWSLP. A copy of the Funding Nomination Form as submitted to the IEPA in January 2019 is provided in Appendix A.

The scope of this project plan addresses the following major items:

- Identify the conditions and needs of the project and its service area.
- Evaluate feasible alternatives to address the needs of the project.
- Recommend a cost-effective project.
- Identify the environmental and financial impacts that might result from the construction of the recommended project.
- Develop an implementation schedule for construction of the recommended project.

CHAPTER 2

EXISTING AND FUTURE CONDITIONS

An understanding of the existing conditions of the area to be served and the existing water distribution facilities that service the area is essential in the proper planning of the project improvements. This chapter briefly describes the physical characteristics of the service area (Village of Bensenville and the White Pines Area) in terms of land use and population, and the existing water system, including the mains to be replaced.

Existing Land Use and Population – Village of Bensenville

The Village of Bensenville is located within the Chicago Metropolitan Area approximately 17 miles northwest of the Chicago Loop and directly west of the Chicago O'Hare International Airport as shown on Exhibit 1. The Village is bordered by Elk Grove Village on the north, Wood Dale on the West, Elmhurst on the South, Schiller Park to the northeast, and Franklin Park to the southeast.

In general, the area is essentially fully developed with residential dwellings and commercial and industrial enterprises; the northern third of the community is nearly all industrial in use. The Canadian Pacific Railroad has a rail line that bisects the community in an east-west direction and this same set of tracks is shared with METRA for commuter rail service. Three non-navigable waterways flow through the community from west to east: Tributaries to Willow Creek in the north, Silver Creek in the center, and Tributaries to the Addison Creek in the south. The routing of the planned Elgin O'Hare Expressway will cut through the northern third of the Village.

The current population of the area is estimated at 18,500 and has decreased in recent years due to the expansion of O'Hare Airport during its modernization program. Future population growth is anticipated to be limited as the area is essentially fully developed.

Existing Land Use and Population – White Pines Area

The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville as shown on Exhibit 1. The boundaries of the area are Illinois Route 83 on the west, Church Road on the east, Third Avenue on the north, and Forest View Road on the south.

The area is fully developed with residential dwellings. Tributaries to Addison Creek, a non-navigable waterway, flow through the area from the west to east near the north and south boundaries of the area.

The current population of the area is estimated at 750. Future population growth is anticipated to be very limited as the area is essentially fully developed.

Description of the Existing Water System – Bensenville

The Village of Bensenville currently receives potable Lake Michigan water from the DuPage Water Commission (DWC), which is supplied by the City of Chicago. The Village has one centralized reception point from the DWC at their reservoir facility located along Church Road north of Main Street. Due to the close proximity to the DWC main pumping facility and reservoir in Berkeley, the Village does not need to separately treat this source of water supply.

Existing Water System

The layout of the existing Village water system is shown on Exhibit 4. The solitary water supply to the system is provided by the connection to DWC Transmission Main which traverses along Church Road until it reaches the Canadian Pacific Railroad right-of-way between Main and Green Streets, and it turns westward to serve additional customers. The Village also maintains two deep wells as a source of emergency supply as well as having emergency interconnections with surrounding communities.

The water distribution system includes approximately 78 miles of water main in sizes ranging from 6 to 12 inches in diameter as summarized in Table 2.1.

Table 2.1: Water Distribution System

Watermain Size in Inches	Length In Feet
6	134,558
8	90,728
10	8,440
12	178,237
Total	411,963

The water system includes four existing storage facilities, two elevated water tanks, one ground storage reservoir, and one underground storage reservoir. The storage capacity of each of these facilities is provided in Table 2.2. The total system storage capacity is approximately 3.65 million gallons (MG). In the event that additional storage is needed in the short term, there is currently a surplus of storage capacity available within the DWC system and in the surrounding communities that could be obtained through existing interconnection of water systems.

Table 2.2: Water Storage Facilities

Water Storage Facility	Location
500,000 gallon Elevated Water Tank	Church Road, north of Main Street
500,000 gallon Elevated Water Tank	Belmont Avenue, West of York Road
1.9M gallon Underground Storage Reservoir	Church Road, north of Main Street
750,000 gallon Ground Storage Reservoir	Foster Avenue, west of Thomas Drive

Water Usage by Customer Base

The Village serves its current population of about 18,500 as well as an unincorporated population of 800. The service area is comprised of the area within its corporate boundaries and some adjoining unincorporated properties. There are approximately 3,928 residential water users, 434 commercial water users and 776 industrial water users within the customer base of the Village of Bensenville. In 2013, there were approximately 540 MG of water billed by the DWC. Average daily demand over the last four years averaged an estimated 1.48 MGD with peak daily demand estimated at 2.5 MGD. The industrial water users account for approximately 19.75% of the water demand, with the commercial usage representing about 13.0% of water demand. The Residential consumers represent about 64.0% of water demand with Municipal and Construction accounting for the remaining 3.25% of water demand.

Existing Water and Sewer Rate Structure

The current water and sewer rates for customers within the Village Corporate limits, as established by Ordinance 68-2017 and effective January 1, 2018, are summarized below. A copy of the Ordinance is provided in Appendix C.

Table 2.3: Existing Incorporated User Rate Structure

Charge	Rate	Charge	Rate
Water per 1000 Gallons		Sewer per 1000 Gallons	
- First 10000 Gal per mo	\$ 10.00	- First 10000 Gal per mo	\$ 8.49
- Over 10000 Gal per mo	\$ 12.00	- Over 10000 Gal per mo	\$ 10.00
		- Non-Metered (fixed fee)	\$ 76.41
Fixed Service Charge by Meter Size			
5/8" or 3/4"	\$ 10.00	1.0"	\$ 30.00
1.5"	\$ 60.00	2.0"	\$ 100.00
3.0"	\$ 180.00	4.0"	\$ 300.00
6.0"	\$ 600.00		
Senior Discount	(\$ 1.54)		
Industrial Pretreatment per 1000 Gallons			
- First 1000 Gal per mo	\$ 8.32		
- Over 1000 Gal per mo	\$ 1.28		

The current water and sewer rates for customers outside of the Village Corporate limits, as established by Ordinance 68-2017 and effective January 1, 2018, are summarized below. These rates are calculated at 150% of the incorporated rates.

Table 2.4: Existing Unincorporated User Rate Structure

Charge	Rate	Charge	Rate
Water per 1000 Gallons		Sewer per 1000 Gallons	
- First 10000 Gal per mo	\$ 15.00	- First 10000 Gal per mo	\$ 12.47
- Over 10000 Gal per mo	\$ 18.00	- Over 10000 Gal per mo	\$ 15.00
		- Non-Metered (fixed fee)	\$114.62
Fixed Service Charge by Meter Size			
5/8" or 3/4"	\$ 15.00	1.0"	\$ 45.00
1.5"	\$ 90.00	2.0"	\$ 150.00
3.0"	\$ 270.00	4.0"	\$ 450.00
6.0"	\$ 900.00		
Senior Discount	\$ 0.00		
Industrial Pretreatment per 1000 Gallons			
- First 1000 Gal per mo	\$ 12.48		
- Over 1000 Gal per mo	\$ 1.92		

Description of the Existing Water Main System – White Pines

The area known as the White Pines Area was developed over 70 years ago as a residential golf development connected with the adjacent White Pines Golf Club (now under public ownership). The layout of the existing water system is shown on Exhibit 2. All existing water mains are 6" in diameter with the exception of 8"-diameter mains along Third Avenue and Briar Lane and a 12"-diameter main on White Pines Road. Many of the mains from the original development were constructed within public utility easement in rear yards. The mains have deteriorated over time, provide inadequate fire flow, require frequent and costly maintenance and are undersized by current standards. Due to repeated failures, the Village began collecting a surcharge from its unincorporated water users in 1998-1999 (discontinued in January 2015) to pay for the maintenance and replacement of the deteriorating mains. The surcharge has not been able to keep up with the maintenance requirements of the deteriorating system, so the Village has been required to focus their efforts on emergency maintenance within the White Pines Area, rather than preventative maintenance and replacement.

Although the age and condition of the remaining water mains is a concern and repairs are being completed over time when budget and financing allows, there is no known violation of federal or State public water supply regulations with regard to supply, treatment and distribution of potable water. Furthermore, there are no violations expected in the foreseeable future.

Existing Water Usage – White Pines Area

The Village's water customer base located within the White Pines Area consists of 267 users. An additional 13 parcels in the White Pines Area do not have a record of water service from the public main and are assumed to be on wells. These 267 users were billed for a total of 12.75 million gallons of water in 2017. Based on this information, the after usage for customers within the White Pines Area is just under 4,000 gallons per month.

Below is a summary of a current water and sewer bill assuming a typical consumption of 4,000 gallons per month.

Table 2.5: Existing Average Usage and Monthly Bill

	Unincorporated User Rate (Per 1000 Gallons)	Average Bill (4000 Gal per Month)
Water	\$ 15.00	\$60.00
Sewer	\$ 12.74	\$50.96
5 Year Fee	-	-
Fixed Fee	\$15.00	\$15.00
Total		\$125.96

Future Conditions – Bensenville

Future population growth in the Village is anticipated to be very limited, as the area is essentially fully developed. Therefore, future population growth over the 20-year planning period is anticipated to remain near its current level, around 18,500.

There is also no significant change expected in the mix of the customer base. The Industrial and Commercial customers are expected to account for about 33% of the water demand, with the Residential customers accounting for 64% of the water demand. The remaining 3% is anticipated for construction and municipal projects. The projected water usage is expected to remain fairly constant as well around the current average of 1.5 MGD.

Future Conditions – White Pines Area

Future population growth within the White Pines Area is anticipated to be very limited as the area is essentially fully developed. Therefore, future population growth over the 20-year planning period is anticipated to remain near its current level, around 750.

Also, there is no significant change expected in the mix of the customer base with residential customers making up all of the customer base and demand. The projected water usage is expected to remain fairly constant but increase slightly as existing lots may be redeveloped with newer, larger homes.

CHAPTER 3

PROPOSED PROJECT

The proposed project includes the abandonment of the existing water mains and the installation of approximately 17,000 feet of 8"-diameter water main, all located within public rights-of-way, as depicted in Exhibit 5. Due to the presence of existing mains in the rear yards, this project would include replacing existing services in rear yards with new copper services connected to the new mains in front yards, and a new curb stop at the public right-of-way line. All properties with rear yard water services would receive new copper water services and curb boxes that connect to the new mains constructed in the public right-of-way. Additionally, the Village has made a commitment to identify and abandon all existing lead water services and replace with new copper services between the public main and each home, including work on private property, as part of this project.

The overall scope of the water main replacement project includes the following items:

- Abandonment of the existing water main
- Abandonment of lead services and replacement with copper services
- Installation of new 8" water main
- Installation of new water valves and vaults
- Installation of new fire hydrants
- Installation of new copper water service lines and curb boxes to the limit of the public rights-of-way
- Relocation of private water services from existing rear yard mains to proposed b-boxes in the public rights-of-way
- All other items necessary to complete the work including water main fittings, steel casing pipe, trench backfill, sewer work in conflict with the new water main installation, and all restoration of parkways and pavement.

The project will be designed and constructed in accordance with 35 Ill. Adm. Code 651 through 654 and all other applicable laws and regulations and would restore the viability of the entire White Pines Area water system and provide a long-term, cost-effective and minimally-disruptive solution to maintaining a safe, reliable water source for the White Pines Area for decades to come.

The following sections of this chapter present a more detailed description of the proposed project, the environmental impacts of the project, and the financial impacts of the project, including capital costs and financing options.

Environmental Impacts

Primary Impacts

Long term impacts of the proposed project are all expected to be positive. Implementation of the project will ensure a safe, adequate and reliable source of water supply for the residents and improve the overall operation and reliability of the Village's water system.

Materials, man-hours, energy, etc. will be committed irretrievably to the construction of this project. However, no new purchase of land will be required, nor will any irreversible changes to the environment occur.

Anticipated short term impacts are all associated with project construction. These impacts include noise and dust which may have the potential to temporarily disturb residents and wildlife immediately within the construction area. There will be traffic interference during construction due to pipe installation within the street and construction staging. Construction projects will temporarily result in unsightly conditions, common to most construction projects, until restoration of affected areas is completed.

The following sections address other key environmental issues of concern.

Impacts to Rare/Endangered Plants and Animals: There are no endangered or threatened species within the area of the proposed project. The "EcoCAT" Report printout and additional correspondence from the Illinois Department of Natural Resources is included in Appendix B.

Disturbance to Historical, Archeological and Cultural Resources: The project site lies within an extensively developed residential area. The State Historical Preservation Office was contacted to ensure that no historical, archeological or cultural resources would be affected by the proposed plan (see Appendix B). Their response indicated that there are no historic properties affected by the proposed project.

Construction Near Wetlands: There are no wetlands within the project area. The "EcoCAT" Report printout from and additional correspondence from the IDNR Division of Resources Review is provided in Appendix B.

Impacts to Floodplains: No impacts to floodplains are anticipated.

Impacts to Air and Water Quality: The proposed project will not have any long-term adverse effects on air quality. There will be some temporary negative effects on the air quality during construction, when dust and fossil fuel exhaust is produced from construction activities.

Impacts to Recreational Areas or Prime Agricultural Land: The proposed improvements do not involve the development of areas designated for agricultural, open space or recreational uses.

A copy of the signed IEPA Loan Application Environmental Checklist has been provided in Appendix B.

Secondary Impacts

There will be no significant impacts on population growth or type of development within the surrounding area due to the proposed project. The project consists of the replacement of an existing facility. As previously discussed, the Village and the White Pines Area are basically fully developed and there has been no significant growth in population in recent years.

Steps to Minimize Negative Impacts

Negative impacts of the proposed construction include noise, dust, traffic disruption and temporary loss of access to local roads – all temporary impacts resulting from construction activities. Careful design and construction techniques will be used to minimize these unavoidable negative impacts, such as the directional boring of water mains and augering/drilling of the new water service lines.

In order to provide proper erosion control, the construction specifications will require that the contractor submit a proposed plan for excavation and erosion control methods for review by the engineer.

Construction noise originates primarily from engine and equipment noise. Engine noise is most effectively controlled by exhaust mufflers and to a lesser extent by intake silencers and engine enclosures. The construction specifications will require that all construction equipment engines be provided with adequate mufflers. Construction noise is obviously most objectionable between 7:00pm through 7:00am and all day on weekends. The construction specifications will require that construction activities be restricted to between 7:00am to 7:00pm each Monday through Friday, unless otherwise allowed by the Village.

Financial Impact

This section presents a preliminary assessment of the financial impact of the proposed project on the current user charges in the Village and the residents of the White Pines Area. The financial impact of the debt retirement cost of the proposed project will depend on the type of financing available and the terms that can be obtained.

Estimated Capital Costs

The detailed opinion of probable construction cost is provided in Exhibit 6 and summarized in Table 3.1. The total cost of the proposed project for the White Pines Water Main Replacement project is estimated at ~~\$7,870,000~~ \$8,460,000, which includes an estimated construction cost of ~~\$6,200,000~~ \$6,700,000. The estimated construction costs were developed based on recent bid prices for similar work within

the Village of Bensenville and surrounding communities. The total costs include allowances for engineering design, 8.0% for construction observation services and \$100,000 for legal fees. The cost estimate also includes a loan contingency, as required by IEPA, in the amount of 10% of the estimated construction cost.

Through prior coordination with IEPA, the Village has confirmed that water service replacement work, as needed to connect to public mains to the roadway right-of-way in the front of each home and as needed to abandon and replace any lead services encountered, will be PWSLP-eligible costs. Therefore, it is anticipated that all construction costs included in the project cost estimate will be loan eligible.

"Soft" costs related to easement acquisition, such as title reports, plats and legals, negotiations, etc., have been estimated by the Village and included in the "Legal Fees" section of the estimate. Costs related to any actual easement purchase are not loan eligible. For this project, the Village anticipates all necessary temporary easements being donated to the Village, as each property owner will be allowed to choose whether to allow the Village's contractor to perform the requisite work on their property or hire their own contractor to complete the work at their cost. Additional discussion on this issue can be found in the Project Implementation Strategy section at the end of this report.

Table 3.1: Estimated Capital Costs of Proposed Project

Item	Estimated Cost
Construction	\$6,200,0006,700,000
Design Engineering	\$450,000
Construction Engineering	\$500,000540,000
Legal Fees	\$100,000
Loan Contingency (10% of construction)	\$620,000670,000
Total Estimated Project Cost	\$7,870,0008,460,000

The Unincorporated Area Fund Balance held by the Village will be used to offset a portion of the project costs.

Table 3.2: Estimated Project Cost to be Financed

Item	Estimated Cost
Total Estimated Project Cost	\$7,870,0008,460,000
Unincorporated Area Fund Balance	\$900,000
Estimated Project Cost to be Financed	\$6,970,0007,560,000

Operation, Maintenance and Replacement (O, M & R) Costs

The staff of the Public Works Department of the Village of Bensenville is responsible for the routine O, M & R activities that are required for the normal operation of the

water and sewer utilities. In general, properly functioning water systems require minimal routine maintenance work that is generally limited to periodically exercising water valves and flushing fire hydrants. A new section of water main that is properly installed is not anticipated to have any significant maintenance issues over the first 20 years of its service life. Therefore, O, M & R costs for this Project are expected to be negligible over the 20-year planning period and are assumed to be included as part of the expenses of maintaining the normal staff positions and therefore excluded from the estimates provided herein.

The Certificate Regarding O&M is included in Appendix A.

Project Financing

There are currently two options for financing this project as follows:

- Loan or Bond obtained by the Village at a financial institution at market interest rates.
- Loan obtained through the IEPA Public Water Supply Loan Program.

The Village has submitted a Funding Nomination Form for loan assistance to the IEPA (Appendix A) to finance the cost of the White Pines Water Main Replacement project. Under the terms of the loan, the debt would be serviced over a 20-year period. The loan rate for loan agreements approved between July 1, 2018 and June 30, 2019 is 1.84%. For the purposes of this report, the PWSLP interest rate is assumed to be 2.21%.

Without the PWSLP loan, the Village would need to obtain a loan or general obligation bond through a financial institution at the current market interest rates. The anticipated range of annual interest rates for the Village is approximately between 4% and 5%. For the analysis presented herein, an annual interest rate of 5% per year was assumed as a likely rate to be obtained by the Village.

Table 3.3 presents the estimated annual payments to be borne by the Village under both loan scenarios for a 20-year repayment term.

Table 3.3: Estimated Annual Debt Service for Financing Options

	Loan or GO Bond	PWSLP Loan
Loan Amount	\$6,970,000	\$7,560,000
Loan Rate	5.00%	2.21%
Loan Term	20 years	20 years
Annual Debt Service	\$559,294,606.63	\$434,950,471.767

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With a 20-year repayment period the annual payments would be reduced by approximately 22% from \$559,294,606.63 to \$434,950,471.767 if an IEPA PWSLP loan is obtained to finance the project.

Sources for Servicing Loan Debt

The debt service for the IEPA loan will be funded through the adoption of new incorporated and unincorporated user water and sewer rate structures that are specific to the White Pines Area, since the proposed infrastructure improvements will only benefit that defined area. These new White Pines Area rate structures would create the two primary funding sources for the project. Each resident of the White Pines Area will be allowed to select the rate structure they desire, which is tied to whether they agree to annex (or pre-annex, as the case may be) into the Village. Any shortfall in debt services revenues will be funded by the Village with the current water/sewer fund revenue.

The new user charge structure would take effect on or around the start date of the construction project (currently anticipated Spring 2020), since that is when interest on the loan will begin accruing.

White Pines Incorporated User Rates (Annexation/Pre-Annexation)

If the property owner elects to annex/pre-annex into the Village, they will pay the standard Village incorporated water and sewer user rates, plus a \$50 fee per month for first 5 years. The \$50 per month surcharge ("Five Year Fee") and the additional property tax dollars to be received by the Village from the newly annexed parcels will be used towards the IEPA loan installments. The Five Year Fee shall be reduced to \$25 per month for senior citizens (age 65 and over).

White Pines Unincorporated User Rates (Remain Unincorporated)

If the property owner elects to remain unincorporated, the White Pines Unincorporated user rates will be set at 275% of the Village incorporated user rates upon approval of the IEPA loan.

Table 3.4: Proposed User Rate Structures – White Pines Area

White Pines Incorporated User Rates	Per 1000 Gal	Monthly Charge
Water	\$10.00	
Sewer	\$8.49	
Fixed Debt Service Charge (Flat Fee)		\$10.00
White Pines Debt Service*		\$50.00
White Pines Unincorporated User Rates	Per 1000 Gal	Monthly Charge
Water	\$27.50	
Sewer	\$23.35	
Fixed Debt Service Charge (Flat Fee)		\$27.50

* Charge reduced to \$25 for Senior Citizens. Charge to be eliminated after 60 months.

Debt Service Analysis for Most Conservative Scenario

From the perspective of generating revenue to service the IEPA loan debt, the most conservative (i.e. worst case) scenario would be that all residents choose to

incorporate and pay White Pines Incorporated User Rates. Therefore, this scenario was used to analyze the ability of the proposed funding sources to pay the debt service for the proposed loan.

Table 3.5: Debt Service Analysis – 100% Annexation/Pre-Annexation

Property Tax Revenues	
Total Net Equalized Assessed Value	\$21,707,570
Current Village Tax Rate	0.9572%
Total New Property Tax Revenues	\$207,784
Debt Service Charge Revenues	
Standard (\$50/mo * 12 mo * 187 homes)	\$112,200
Seniors (\$25/mo * 12 mo * 80 homes)	\$24,000
Total Debt Service Charge Revenues	\$136,200
Total Revenues for Debt Service	\$343,984
Annual Loan Debt Service (Table 3.4)	\$471,767,434.950
Debt Service Shortfall	(\$90,966,127.783)

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The anticipated Year 1 debt service shortfall of \$90,966,127.783 will be paid from the current water/sewer fund. It is anticipated that this shortfall will decrease in subsequent years as property tax revenues increase. Also, this "100% incorporated" scenario represents the most conservative possible scenarios. Regardless of actual revenues, the Village will be using its own revenues from the water/sewer fund to pay for any shortfall between the White Pines Area debt service revenues and the required IEPA loan debt service payments for the duration of the 20-year loan term.

Impact on Water and Sewer Charges

A comparison of the impact of collection of the proposed debt service revenues on the average monthly bill of a resident of the White Pines Area, based on the rate structure they select, is provided below.

Residents electing the Incorporated (Annexation/Pre-Annexation) rate structure will see a modest monthly bill increase of 6.4% over their current bill (Village unincorporated user rate). Once the Five Year Fee will be eliminated after 60 installments, the monthly bill would be reduced to that of all other Village incorporated users.

Residents electing the Unincorporated (Remain Unincorporated) rate structure will see a monthly bill increase of 183.3% over their current bill (Village unincorporated user rate).

Table 3.6: Average Monthly Bill Comparison

Average Monthly Bill (4,000 gallons per month)			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Water	\$60.00	\$40.00	\$110.00
Sewer	\$50.96	\$33.97	\$93.43
5 Year Fee*	-	\$50.00**	-
Fixed Fee	\$15.00	\$10.00	\$27.50
Total	\$125.96	\$133.97**	\$230.93

* Assumes Non-Senior Citizen Household ** Decreases by \$50 after Five Year Fee expires.

Impact on Property Taxes

A comparison of the impact of the proposed debt service approaches on the average annual property tax bill of a resident of the White Pines Area, based on the rate structure they select, is provided below. This calculation assumes an average assessed value of \$76,977 (equivalent to a \$230,931 home value).

Residents electing the Incorporated (Annexation/Pre-Annexation) rate structure will begin paying property taxes to the Village of Bensenville, as an incorporated parcel owner. Residents electing the Unincorporated (Remain Unincorporated) rate structure will continue not having a Village property tax responsibility.

Table 3.7: Average Annual Property Tax Comparison

Average Annual Property Taxes Paid to Village			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Property Taxes	\$0.00	\$736.82	\$0.00
Total	\$0.00	\$736.82	\$0.00

A summary of the impacts of changes to the user charges and property taxes for an average property owner in the White Pines Areas is summarized below:

Table 3.8: Summary of Average Monthly Costs

Summary of Monthly Costs			
	Current Unincorporated User	White Pines Incorporated User	White Pines Unincorporated User
Water and Sewer Fees*	\$125.96	\$133.97**	\$230.93
Property Taxes	\$0.00	\$61.40	\$0.00
Total	\$125.96	\$195.37**	\$230.93

* Assumes Non-Senior Citizen Household ** Decreases by \$50 after Five Year Fee expires.

Project Implementation

Project Implementation Schedule

The anticipated project schedule for implementation of the proposed project is outlined in Table 3.9. The schedule is governed by the IEPA PWSLP regulatory requirements and assumes that the proposed project presented in this Planning Report will be approved by the IEPA by July 2019. Plans will be submitted to IEPA for construction permit review and issuance in April-July 2019.

Table 3.9: Anticipated Project Implementation Schedule

Project Activity	Schedule
Submit Planning Report to IEPA	February 2019
Submit Plans & Specifications to the IEPA	April-July 2019
Submit Financial Information to IEPA	April-July 2019
IEPA Planning Approval	July 2019
Award Contract	January 2020
End Construction	November 2021

The local paper serving the Village of Bensenville is:

Daily Herald
155 E. Algonquin Road
Arlington Heights, IL 60005

Project Implementation Strategy

This project will involve construction on both public and private property. The work on any particular private property will be limited to abandoning lead services and constructing a new copper water service between the house and public right-of-way (for homes with existing lead or rear yard services). The Village plans to award the construction of both public and private work as part of a single construction contract.

The Village continues to work to obtain temporary construction easements for all private water service work. For parcels where temporary construction easements are granted, work on these parcels will be included in the Village's project and associated costs included in the IEPA loan.

For parcels where temporary construction easements are not granted, work on these parcels will not be included in the Village's project, although the public improvements in the public right-of-way adjacent to the parcel will be performed. The Village will provide dissenting parcel owners with a reasonable timeframe by which they must facilitate the construction of a new private water service on their property and legally connect it to the new water service box that is installed by the Village's project. The cost of this work will be borne by the individual property owner and not included in the IEPA loan, and a permit will be required from the Village in order to perform the

work. The timeframe that is anticipated to be allowed by the Village to facilitate private property work by others is 3 months.

Due to the reasonable expectation that some property owners will not grant temporary construction easements and therefore, a portion of the necessary private water service work will take place after the construction of the Village's project, it will be important to construct the new water system such that it does not impact the ability of the existing water system to continue operating, until such date that all properties are connected to the new system and the existing water system can be disconnected and abandoned.

Public Outreach

The Village acknowledges the sensitive nature of this project and has taken a proactive approach to gathering public input and disseminating information to the property owners impacted by this project. Below is a list of some of the events, meetings and correspondences that have been extended to property owners.

- The Village President, Village Manager and Village Finance Director held a White Pines Neighborhood Meeting on July 24, 2018 to present the latest plan to the residents. A video of this Meeting can be found at <http://www.bensenville.il.us/980/WPVMR-Neighborhood-Meeting-Video>. Representatives from 92 of the households within White Pines attended the Meeting (a list of those in attendance is included in Appendix E). Each household in attendance was given a packet that was specific to each resident's past tax bills and past water usage and illustrated the anticipated impacts of the proposed plan on their finances.
- The Daily Herald published an article after the July 2018 Public Meeting was held. This article is included in Appendix E.
- The Village President, Village Manager, and Village Staff have conducted individual visits to each home within the White Pines subdivision to present, discuss and educate residents of the proposed plan. The team handed out the packets of information to the residents if they had not already received the packet at the Public Meeting.
- The Village Manager offered all residents an invitation for one-on-one meetings with staff to individually review and discuss their packets. These meetings could take place after hours to accommodate as many residents as possible. To date, 35 residents have met with the Village Manager to discuss their packets.
- In support of full disclosure and transparency, the Village continues to host a public website portal specifically for the White Pines projects so that all important documents can be shared. This site includes presentation materials, FAQs, interactive maps, Village Board Meeting minutes and links

to important documents and agreements.
<http://www.bensenville.il.us/973/White-Pines-Water-Main-Replacement-Portal>

- The Village has received support from the community through an ad hoc resident group called the White Pines Community Alliance. This group of individuals was formed by residents who object to the views of the White Pines Civic Association, which has been a vocal opponent to the proposed project. It should be noted that neither the Alliance nor Association is a recognized corporate group, homeowners Association or legally recognized group.
- To date, 29 residents have signed annexation agreements (seven of which are currently contiguous to the Village) and are waiting formal Village Board approval.

The Village understands the importance of a strong Public Outreach effort for a project of this scope and magnitude that will directly affect the lives of so many residents. They also understand that unanimous concurrence with the scope, impacts and costs of this project is extremely unlikely, and believe that the historical opposition from residents originated from a vocal minority of the subdivision. During the individual meetings with residents, a common theme stated to the Village was they have heard so many different versions of the plan from neighbors, that they never really understood the full plan. Although the Village did not take a formal survey, they do believe that a majority of residents agree that improvements are necessary, now understand their options and are supportive of the proposed plan. Residents have also expressed satisfaction in the fact that they are being provided options that involve annexation or remaining unincorporated and understand the financing behind the plan.

The Village is committed to the health and safety of their water customers as well as the reliability of our water system, which is further demonstrated by their commitment to abandon and replace all lead services in the project area with copper services, including portions on private property. They are also committed to developing and maintaining a strong Public Outreach approach throughout the duration of the design and construction of the project.

From: Bryan Welch <bwelch@cbbel.com>
Sent: Friday, May 31, 2019 11:58 AM
To: Joseph Caracci
Subject: FW: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: Bensenville L1754402 PEID (version 2) and cover letter.docx

Hi Joe,

I don't have any comments on the PEID Chris sent. I reviewed the financial info to the best of my knowledge and that looks to be in line, although I think someone at the Village should verify some of the figures related to the new user rate structure and debt service.

I'll wait to hear from you before responding to Chris. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com
www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 30, 2019 2:33 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

I was copied on the IDNR OWR environmental sign-off email, which was the last thing needed to finish the draft PEID. The attachment is the draft PEID for the Bensenville project. Please review it and give me any comments and corrections that you have. Also, verify when the new White Pines user charges will take effect. Please return your comments to me by next Tuesday, because this will have to be approved by my manager and she will be away from work the following week.

Thanks, Chris Nifong

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

Project Summary and Environmental Assessment

The Village of Bensenville has applied to the Illinois Environmental Protection Agency's (IEPA) Public Water supply loan program to request funding to help finance a drinking water distribution system project. The following project summary and environmental assessment has been prepared by the IEPA to assist the loan applicant comply with the public notice requirements. This report is based on information submitted by the Village of Bensenville. Sources of information include the following documents: Village of Bensenville, White Pines Area Watermain Replacement Project report, dated February 1, 2019 with February 5, 2019 transmittal letter, and in response to the April 19, 2019 IEPA Facility Plan Review letter, the May 8, 2019 letter, which were prepared by Christopher B. Burke Engineering, Ltd.

Part I – Project Information

Project Name: Bensenville White Pines Area water main replacement

Loan Applicant: Village of Bensenville

County: DuPage

Project Number: L174402

Current Population Served: 19,250

Future Population (20 year): 19,250

Project Description: This project is to replace parts of the existing White Pines Area water distribution system, which may include lead service lines. The project consists of the construction of approximately 16,923 feet of 8-inch diameter and 823 feet of 6-inch diameter water main, valves, valve vaults, fire hydrants, copper water services, abandonment of existing water mains, and construction area restoration.

Project Location: The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville. The boundaries of the area are Illinois Route 83 on the west, Church Road on the east, Third Avenue on the north and Forest View Road on the south. All water mains within this area will be replaced. The proposed water main construction locations are shown on Attachment A.

Project Justification: The existing water mains are over seventy years old and are reaching the end of their useful service life. There have been over 150 water main breaks within the last 30 years in this area, the mains are undersized for fire flows and most are located in the back yards of residential homes, which increases repair costs and difficulty for access. The proposed project will relocate the water mains into public right-of-ways to provide access, reduce the number of water main breaks and related costs, provide adequate fire flows, improve water pressure and provide a safe and reliable source of drinking water for many years.

Estimated Construction Start Date: January 2020

Estimated Construction Completion Date: November 2021

Project Cost Estimate: \$7,870,000

Part II – Environmental Issues Associated With the Project

Project construction impacts: The construction impacts associated with the project will be typical of water main construction. The construction will cause some minor erosion and wind-blown dust from excavated materials. There will also be the normal noises associated with this type of construction. Additionally, during construction there will be temporary disruption of normal traffic patterns due to the movement of construction vehicles and the delivery of materials to the construction sites. Issues with noise, dust and storm water controls can be minimized by specifications and conditions within the construction contract documents. All water main construction will take place in the County or State right-of-way. The old water mains will be abandoned in place.

Illinois Department of Natural Resources: The loan applicant submitted project information to the Illinois Department of Natural Resources (IDNR) EcoCAT website to determine compliance with the Illinois Endangered Species Act, Illinois Natural Areas Preservation Act and the Illinois Wetlands Act. The review results indicated that protected resources may be in the vicinity of the locations submitted and the project will be evaluated further. An April 26, 2019 letter by IDNR states that based on additional evaluation, adverse effects are unlikely and terminated their consultation for 17 Ill. Adm. Code Parts 1075 and 1090. This indicates that there are no anticipated impacts to threatened and endangered species, wetlands or other natural areas from the proposed project. However, the IDNR letter also recommends a construction barrier and silt fence be utilized to keep workers within the project site and to protect Fischer Woods, which is an Illinois Natural Area and habitat for state-listed species. The Village of Bensenville will be required to incorporate all environmental protective and mitigative measures into the design documents and bidding specifications/project manual for the project.

Because the project appears to be located adjacent to wetlands and/or floodways, project information was also submitted to the IDNR Office of Water Resources (OWR) to evaluate whether the project is under their jurisdiction or regulated by the Illinois Lakes, Rivers and Streams Act. A May 30, 2019 email from the IDNR OWR indicates that the none of the proposed water mains are located within a jurisdictional floodway and therefore, an IDNR OWR permit is not required.

United States Army Corps of Engineers: The Village of Bensenville submitted their project information to the U.S. Army Corps of Engineers (USACE) for their review and determination of requirements related to placement, or excavation, of any dredged or fill materials into rivers, lakes, ponds, large and small streams with perennial, intermittent or ephemeral flow, artificial water bodies and wetlands adjacent to these waters and associated permitting. The U.S. Army Corps of Engineers Chicago District Office email dated May 24, 2019, indicates the that the proposed water main replacement project does not require a Section 404 Permit under the Federal Clean Water Act requirements.

Illinois Historic Preservation Division of IDNR: An IDNR letter dated November 28, 2018 indicates that there are no anticipated impacts to historic, architectural, and archaeological resources from the proposed project and that it complies with Section 106 of the National Historic Preservation Act of 1966.

Part III – Project Implementation and Affordability for Residents and Utility Customers

The estimated costs for the project are:

Construction	\$6,200,000
Contingency (10%)	\$620,000
Design Engineering	\$450,000
Construction Engineering	\$500,000
Legal	\$100,000
Total Project	\$7,870,000

The applicant is proposing to finance the project costs with a loan from the Public Water Supply Loan Program (PWSLP). The total estimated cost for the project is \$7,870,000. Bensenville indicates there is a \$900,000 balance in an Unincorporated Area Fund that will be used to pay a portion of the total projects. After subtracting the \$900,000 from the estimated project costs, the remaining estimated IEPA loan amount totals \$6,970,000. A \$6,970,000 loan, with an estimated interest rate of 1.84% for a twenty-year period, would have an annual repayment of approximately \$416,812. If the annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1561.10 per year, which equals \$130.09 per month.

The current loan program interest rate is 1.84%. The interest rate adjusts annually on July 1st. All loans are subject to the interest rate in effect at the time a loan agreement is issued. The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness, and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualification are found in Sections 662.210 and 662.250 of the Procedures for Issuing Loans from the PWSLP which is available on the Agency's website. The final decision for incentive qualification will be determined at the time a loan agreement is issued using updated Census Bureau and Department of Labor data. Using current data, the Village of Bensenville is eligible to receive a 1.38% small community interest rate and principal forgiveness of 75% of the initial loan up to a maximum of \$1,500,000. The Agency adjusts qualifying criteria annually on July 1st and the community specific information is also subject to change. Applicants that qualify for principal forgiveness will not have a repayment obligation for a portion of their loan. Principal forgiveness and/or a reduced interest rate will reduce the loan payment amount and possibly the associated increases to the user charges. Principal forgiveness is not guaranteed until a loan agreement is issued.

If the Village of Bensenville does receive the above referenced IEPA loan program incentive reductions, the possible cost savings to the estimated loan repayments can be calculated as follows: the maximum amount of principal forgiveness would subtract \$1,500,000 from the \$6,970,000 estimated initial loan amount, which would leave \$5,470,000 of remaining project costs to be repaid. A \$5,470,000 loan with an estimated interest rate of 1.38% for a twenty (20) year period, would have an annual repayment of approximately \$313,133. If this annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1173.00 per year, which equals \$98.00 per month.

Source of Loan Repayment: The Village of Bensenville intends to repay the loan by increasing the water user charges for only the White Pines Area water service customers. This project will not impact the water charges for existing Bensenville water service customers located within the corporate limits. For customers located in the White Pines Area, there will be two water service categories and associated water use charges that depend on whether the property owner decides to have their property annexed into the Village of Bensenville or remain unincorporated. If the property owner elects to annex into the Village, they will pay the the current “Within the Corporate Limits” user charges, plus a monthly \$50 fee (\$25 for people age 65 and older) for the first five years, and additional property taxes, that will also be used to repay the IEPA loan. After the five years, the incorporated White Pines Area customers will pay the same water user charges as the customers located within the corporate limits.

If the property owner elects to remain unincorporated, the White Pines Area “Outside the Corporate Limits” user charges will be set at 275% of the Village incorporated user charges. The customers who choose to remain unincorporated will continue to not pay property taxes to the Village of Bensenville. The new White Pines Area user charges will be implemented once project construction has started (Verify when the White Pines user charges will take effect).

Current Average Monthly Residential Cost of Service: The current unincorporated user charges are calculated at 150% of the incorporated user charges. An average residential customer located in the White Pines project area reportedly uses approximately 4,000 gallons per month. A White Pines Area customer who has a $\frac{5}{8}$ and $\frac{3}{4}$ -inch meter and uses 4,000 gallons of water per month, would currently pay \$75.00 per month for water service.

How is the monthly residential rate/cost of service calculated? Bensenville’s current water user charges and rates are determined by whether the customer is located within the Village limits or outside of the Village and the size of the water meter.

The current “Within the Corporate Limits” water user charge system is based on a monthly fixed service charge depending on the size of the meter, which is \$10.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$10.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.00 for amounts used above 10,000 gallons. For an average Within the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$10.00 + (\$10.00 \times 4) = \$50.00$ per month.

The current “Outside the Corporate Limits” water user charge system is based on a monthly fixed service charge depending on the size of the meter, which is \$15.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$15.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.74 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$15.00 + (\$15.00 \times 4) = \$75.00$ per month.

Projected Average Monthly Residential Cost of Service: Based on the source of loan repayment proposed by the Village, the projected water service costs for White Pines Area properties that elect to annex will pay the current Within the Corporate Limits user charges, plus the \$50.00 “five-year fee”, plus pay additional property taxes to Bensenville. The additional property taxes for a home valued at \$230,931 are estimated to be \$736.82 per year, which equals \$61.40 per month. For an average customer who uses 4,000 gallons, this calculates to: $\$10.00 +$

$(\$10.00 \times 4) + \$50 + \$61.40 = \161.40 per month. After five years the \$50 fee expires, which results in the monthly water user cost decreasing to \$111.40 per month.

White Pines Area properties that elect to remain unincorporated will pay 275% of the current "Within the Corporate Limits". The projected Outside the Corporate Limits user charges are a monthly fixed service charge depending on the size of the meter, which will be \$27.50 for 5/8 and 3/4-inch meters, plus a water rate of \$27.50 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$33.00 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$27.50 + (\$27.50 \times 4) = \$137.50/\text{month}$.

Number of Customers or Service Connections: The Bensenville water distribution system serves approximately 18,500 people within the Village corporate limits and approximately 750 people in the White Pines unincorporated area, for a total population of 19,250. There are approximately 3,928 residential, 434 commercial and 776 industrial water customers billed by the water system. There are 267 billed customers located in the White Pines area. The White Pines area has an additional 13 parcels that do not have a record of public water service and are assumed to be supplied by private water wells.

Median Household Income (MHI): The MHI for Bensenville is \$62,286. The MHI for DuPage County is \$81,521. Because the White Pines Area is located in an unincorporated section of DuPage County, the County MHI will be used to calculate the financial impact.

Financial Impact of the proposed project: In order to determine the financial impact of the proposed project on the community, a percentage comparison of the MHI to the annual cost for water service is utilized. According to the current fiscal year census information, the MHI for DuPage County (the White Pines Area service area) is \$81,521. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, including the monthly \$50 five-year fee is \$1,936.80 ($\$161.40 \times 12$ months), which is 2.38 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, after the monthly \$50 five-year fee expires is \$1,336.80 ($\111.40×12 months), which is 1.64 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Outside the Corporate Limits water user is \$ 1,650.00 ($\$137.50 \times 12$ months), which is 2.02 percent of the MHI for the area. Any amount less than 2.0 percent is considered to be affordable under State and Federal loan program criteria.

Public comments are invited on the proposed project. For further information contact:

Chris Nifong, Project Manager
Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

(217)782-2027

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, June 3, 2019 4:23 PM
To: Joseph Caracci
Cc: Mehul Patel
Subject: RE: Letter about new water main connection
Attachments: 4N400 Church Rd_EXH_Reduced.pdf

Hi Joe,

Please see the attached exhibit for Tom's house that we created. We're showing where we believe his existing service to be, as well as where he indicated he wanted the future one to be. We also showed a route we think would work, and assume that it will be directional bored to avoid tree impacts.

Perhaps this is something you can review and/or share with Tom to get feedback? Let me know if you have any thoughts. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Monday, June 3, 2019 7:53 AM
To: Earley, Tom <Tom.Earley@uscellular.com>
Cc: Mehul Patel <MPatel@bensenville.il.us>; Bryan Welch <bwelch@cbbel.com>
Subject: RE: Letter about new water main connection

Tom,

Thanks for the info. I am copying Mehul and our engineer on this. We are in the gathering stages still, but if the decision will affect your remodel, we can try to get a meeting set up to discuss. Let me know your timetable and we can schedule.

Joe

From: Earley, Tom <Tom.Earley@uscellular.com>
Sent: Friday, May 31, 2019 4:47 PM
To: Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: Letter about new water main connection

Hi Mr. Caracci,

Thanks for the letter about the new service lines.

We currently have 1 side of the house that has that does not have some kind of sidewalk. The existing pipe comes in the back of the house in the center of the yard. This has a sidewalk and patio that makes access difficult.

I was planning on this coming and would like to move it to the side of the house. Last year I re piped the basement to make this move easier. So having a 1" service line come in on the south side of the house would work best for me. It would be the shortest route with possibly the least obstacles. If you use directional boring that would be great. If you

have to dig, we can discuss your best access path. I am in the process of remodeling the basement (no walls yet) and plan to replace the driveway so getting this determined would be very helpful in case you need to dig and so I know how to address the new meter location.

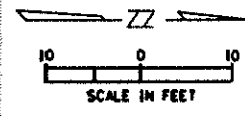
Let me know a good time we can discuss this.

Thanks,

Tom Earley

4N400 Church Road
Bensenville, IL 60106

Cell: 708/227-1216



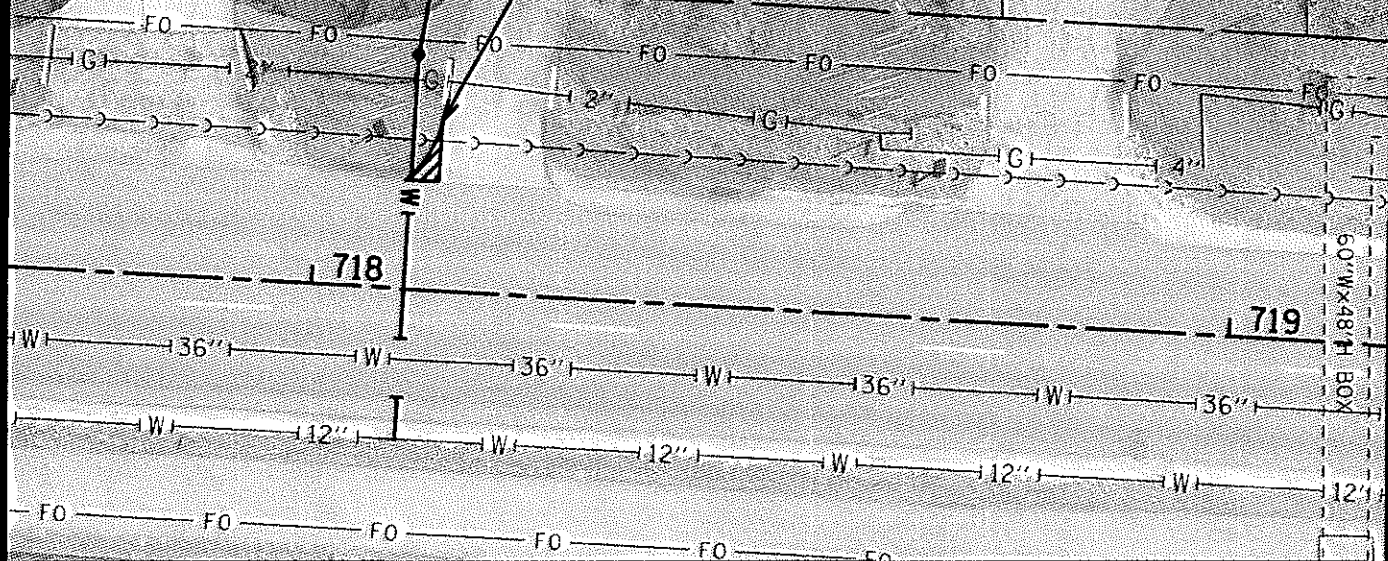
EX. WATER SERVICE
TO BE ABANDONED


REMOVE & REINSTALL
DECORATIVE LANDSCAPE
IN KIND (INCIDENTAL
TO WATER SERVICE)

22 SF BRICK PAVER
SIDEWALK R&R

76 LF WATER SERVICE
PRIVATE, 1"

3 SY HMA DRIVEWAY R&R



CLIENTS  BENSENVILLE <small>GATEWAY TO PLANNED PROGRESS</small>	TITLE 4N400 CHURCH ROAD WATER SERVICE PLAN WHITE PINES WATER MAIN REHABILITATION	PROJ. NO. 120433
		DATE: 6/3/2019
 CHRISTOPHER S. BURKE ENGINEERING, LTD. 6575 W. Higgins Road, Suite 600 • Rosemont, Illinois 60018 • (847) 823-0500	DSCN: [] DIM: [] CHD: [] FILE: []	SCALE: 20' MODEL: Default PLOT DATE: 6/3/2019
		SHEET 1 OF 1 DRAWING NO. EXH-1

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, June 5, 2019 8:14 AM
To: Bryan Welch; Joseph Caracci
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

Since I didn't hear from you Monday or yesterday, I will assume that you have no comments on the draft PEID. I will be forwarding it to my manager for approval today. After the PEID and a cover letter are approved by IEPA management, they will be mailed out in the next couple of days.

Thanks, Chris Nifong

From: Nifong, Chris
Sent: Thursday, May 30, 2019 3:59 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan,

As long as the debt ordinance and demonstration for loan repayment cover the higher loan amount there is no problem. The loan is limited to the debt ordinance and repayment demonstration amounts. It is best to have the debt ordinance amount higher than the estimated project cost, in case the bids come in high. That way the Village doesn't have to redo the ordinance. This detailed financial information is provided by the Village as part the loan application. It gets reviewed by the IEPA loan program attorney and CPA.

I will be out tomorrow.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 30, 2019 3:30 PM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Thanks, Chris. Joe and I will review the PEID and get back to you tomorrow or Monday. In the meantime just a couple of things:

- The White Pines user charges will take effect on or around the start date of the construction project, since that is when interest on the loan will begin accruing.
- One question for you: If the project cost increases between planning approval and bid award, does that have an impact on loan approval? For example, if a project has an estimated construction cost of \$1M (plus a \$100k contingency) and the bid comes in at \$1.2M, does that create any issues or is the loan simply issued based on that \$1.2M bid award?

Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com

www.cbhel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>

Sent: Thursday, May 30, 2019 2:33 PM

To: Bryan Welch <bwelch@cbhel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

I was copied on the IDNR OWR environmental sign-off email, which was the last thing needed to finish the draft PEID. The attachment is the draft PEID for the Bensenville project. Please review it and give me any comments and corrections that you have. Also, verify when the new White Pines user charges will take effect. Please return your comments to me by next Tuesday, because this will have to be approved by my manager and she will be away from work the following week.

Thanks, Chris Nifong

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From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, June 4, 2019 8:05 AM
To: Joseph Caracci
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Hi Joe,

Just following up to see if you've had a chance to review the PEID for White Pines, or if I'm ok to respond to Chris that all looks good. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com
www.cbbel.com

From: Bryan Welch
Sent: Friday, May 31, 2019 11:58 AM
To: Joe Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: FW: Bensenville L1754402 PEID (version 2) and cover letter.docx

Hi Joe,

I don't have any comments on the PEID Chris sent. I reviewed the financial info to the best of my knowledge and that looks to be in line, although I think someone at the Village should verify some of the figures related to the new user rate structure and debt service.

I'll wait to hear from you before responding to Chris. Thanks.

Bryan Welch, PE
Assistant Department Head, Civil Engineering Design
Christopher B. Burke Engineering, Ltd.
16221 W. 159th Street, Suite 201 | Lockport, IL 60441
Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com
www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 30, 2019 2:33 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx

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Thanks, Chris Nifong

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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Tuesday, June 11, 2019 9:33 AM
To: Joseph Caracci; Bryan Welch
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: Bensenville L174402 PEID and cover.pdf

Joe,

The attachment is a scanned copy of the PEID and 6-6-19 cover letter.

Chris Nifong

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, June 11, 2019 6:29 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Bryan Welch <bwelch@cbbel.com>
Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Chris,

Is it possible to get a copy of the cover letter that went out with this?

Thanks,

Joe

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, June 05, 2019 8:14 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

Since I didn't hear from you Monday or yesterday, I will assume that you have no comments on the draft PEID. I will be forwarding it to my manager for approval today. After the PEID and a cover letter are approved by IEPA management, they will be mailed out in the next couple of days.

Thanks, Chris Nifong

From: Nifong, Chris
Sent: Thursday, May 30, 2019 3:59 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us> <JCaracci@bensenville.il.us>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan,

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Sent: Thursday, May 30, 2019 3:30 PM

To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

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Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

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E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>

Sent: Thursday, May 30, 2019 2:33 PM

To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx

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Thanks, Chris Nifong

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

C.N.

Project Summary and Preliminary Environmental Impacts Determination

Date: JUN 06 2019

Loan Applicant: Village of Bensenville, IEPA Loan Project Number: L174402

To all interested persons:

Section 662.330 of the Illinois Procedures for Issuing Loans from the Public Water Supply Loan Program requires that the Illinois Environmental Protection Agency (IEPA) conduct an assessment of the environmental impacts of proposed public water supply projects to be funded with loans. This review is carried out in conjunction with the Agency's review of the applicant's project plan.

Prior to final approval of the project plan, the public's comments are sought regarding environmental impacts of the proposed project. Unless new information obtained through the public comment process causes reconsideration, the Agency will approve the project plan at the close of the public comment period.

The applicant will make the attached Project Summary and Preliminary Environmental Impacts Determination (PEID) available for public inspection. Within 60 days of receiving this letter, the applicant must conduct a public hearing regarding both the PEID and project planning. Advertisement of the hearing must be made at least 10 days in advance. The advertisement must include the purpose of the project along with the date, time, and location of the hearing. A comment period of at least 10 days shall be provided after the hearing in which written comments may be submitted to the loan applicant or to the IEPA contact person identified in the attached document.

For information purposes only, a copy of this document is being provided to your local newspaper of record.

Your participation in this process is appreciated.

Sincerely,

Heidi Allen
Pre-Construction Unit Manager
Infrastructure Financial Assistance Section
Bureau of Water

HA:CLN Bensenville PEID cover letter

Attachment

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Project Summary and Environmental Assessment

The Village of Bensenville has applied to the Illinois Environmental Protection Agency's (IEPA) Public Water supply loan program to request funding to help finance a drinking water distribution system project. The following project summary and environmental assessment has been prepared by the IEPA to assist the loan applicant comply with the public notice requirements. This report is based on information submitted by the Village of Bensenville. Sources of information include the following documents: Village of Bensenville, White Pines Area Watermain Replacement Project report, dated February 1, 2019 with February 5, 2019 transmittal letter, and in response to the April 19, 2019 IEPA Facility Plan Review letter, the May 8, 2019 letter, which were prepared by Christopher B. Burke Engineering, Ltd.

Part I – Project Information

Project Name: Bensenville White Pines Area water main replacement

Loan Applicant: Village of Bensenville

County: DuPage

Project Number: L174402

Current Population Served: 19,250

Future Population (20 year): 19,250

Project Description: This project is to replace parts of the existing White Pines Area water distribution system, which may include lead service lines. The project consists of the construction of approximately 16,923 feet of 8-inch diameter and 823 feet of 6-inch diameter water main, valves, valve vaults, fire hydrants, copper water services, abandonment of existing water mains, and construction area restoration.

Project Location: The White Pines Area is an unincorporated section of DuPage County that is immediately adjacent to the southwest corner of the Village of Bensenville. The boundaries of the area are Illinois Route 83 on the west, Church Road on the east, Third Avenue on the north and Forest View Road on the south. All water mains within this area will be replaced. The proposed water main construction locations are shown on Attachment A.

Project Justification: The existing water mains are over seventy years old and are reaching the end of their useful service life. There have been over 150 water main breaks within the last 30 years in this area, the mains are undersized for fire flows and most are located in the back yards of residential homes, which increases repair costs and difficulty for access. The proposed project will relocate the water mains into public right-of-ways to provide access, reduce the number of water main breaks and related costs, provide adequate fire flows, improve water pressure and provide a safe and reliable source of drinking water for many years.

Estimated Construction Start Date: January 2020

Estimated Construction Completion Date: November 2021

Project Cost Estimate: \$7,870,000

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Project construction impacts: The construction impacts associated with the project will be typical of water main construction. The construction will cause some minor erosion and wind-blown dust from excavated materials. There will also be the normal noises associated with this type of construction. Additionally, during construction there will be temporary disruption of normal traffic patterns due to the movement of construction vehicles and the delivery of materials to the construction sites. Issues with noise, dust and storm water controls can be minimized by specifications and conditions within the construction contract documents. All water main construction will take place in the County or State right-of-way. The old water mains will be abandoned in place.

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The estimated costs for the project are:

Construction	\$6,200,000
Contingency (10%)	\$620,000
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Legal	\$100,000
Total Project	\$7,870,000

The applicant is proposing to finance the project costs with a loan from the Public Water Supply Loan Program (PWSLP). The total estimated cost for the project is \$7,870,000. Bensenville indicates there is a \$900,000 balance in an Unincorporated Area Fund that will be used to pay a portion of the total projects. After subtracting the \$900,000 from the estimated project costs, the remaining estimated IEPA loan amount totals \$6,970,000. A \$6,970,000 loan, with an estimated interest rate of 1.84% for a twenty-year period, would have an annual repayment of approximately \$416,812. If the annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1561.10 per year, which equals \$130.09 per month.

The current loan program interest rate is 1.84%. The interest rate adjusts annually on July 1st. All loans are subject to the interest rate in effect at the time a loan agreement is issued. The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness, and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualification are found in Sections 662.210 and 662.250 of the Procedures for Issuing Loans from the PWSLP which is available on the Agency's website. The final decision for incentive qualification will be determined at the time a loan agreement is issued using updated Census Bureau and Department of Labor data. Using current data, the Village of Bensenville is eligible to receive a 1.38% small community interest rate and principal forgiveness of 75% of the initial loan up to a maximum of \$1,500,000. The Agency adjusts qualifying criteria annually on July 1st and the community specific information is also subject to change. Applicants that qualify for principal forgiveness will not have a repayment obligation for a portion of their loan. Principal forgiveness and/or a reduced interest rate will reduce the loan payment amount and possibly the associated increases to the user charges. Principal forgiveness is not guaranteed until a loan agreement is issued.

If the Village of Bensenville does receive the above referenced IEPA loan program incentive reductions, the possible cost savings to the estimated loan repayments can be calculated as follows: the maximum amount of principal forgiveness would subtract \$1,500,000 from the \$6,970,000 estimated initial loan amount, which would leave \$5,470,000 of remaining project costs to be repaid. A \$5,470,000 loan with an estimated interest rate of 1.38% for a twenty (20) year period, would have an annual repayment of approximately \$313,133. If this annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1173.00 per year, which equals \$98.00 per month.

Source of Loan Repayment: The Village of Bensenville intends to repay the loan by increasing the water user charges for only the White Pines Area water service customers. This project will not impact the water charges for existing Bensenville water service customers located within the corporate limits. For customers located in the White Pines Area, there will be two water service categories and associated water use charges that depend on whether the property owner decides to have their property annexed into the Village of Bensenville or remain unincorporated.

If the property owner elects to annex into the Village, they will pay the the current "Within the Corporate Limits" user charges, plus a monthly \$50 fee (\$25 for people age 65 and older) for the first five years, and additional property taxes, that will also be used to repay the IEPA loan. After the five years, the incorporated White Pines Area customers will pay the same water user charges as the customers located within the corporate limits.

If the property owner elects to remain unincorporated, the White Pines Area "Outside the Corporate Limits" user charges will be set at 275% of the Village incorporated user charges. The customers who choose to remain unincorporated will continue to not pay property taxes to the Village of Bensenville. The new White Pines Area user charges will be implemented once project construction has started.

Current Average Monthly Residential Cost of Service: The current unincorporated user charges are calculated at 150% of the incorporated user charges. An average residential customer located in the White Pines project area reportedly uses approximately 4,000 gallons per month. A White Pines Area customer who has a $\frac{5}{8}$ and $\frac{3}{4}$ -inch meter and uses 4,000 gallons of water per month, would currently pay \$75.00 per month for water service.

How is the monthly residential rate/cost of service calculated? Bensenville's current water user charges and rates are determined by whether the customer is located within the Village limits or outside of the Village and the size of the water meter.

The current "Within the Corporate Limits" water user charge system is based on a monthly fixed service charge depending on the size of the meter, which is \$10.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$10.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.00 for amounts used above 10,000 gallons. For an average Within the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$10.00 + (\$10.00 \times 4) = \$50.00$ per month.

The current "Outside the Corporate Limits" water user charge system is based. on a monthly fixed service charge depending on the size of the meter, which is \$15.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$15.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.74 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$15.00 + (\$15.00 \times 4) = \$75.00$ per month.

Projected Average Monthly Residential Cost of Service: Based on the source of loan repayment proposed by the Village, the projected water service costs for White Pines Area properties that elect to annex will pay the current Within the Corporate Limits user charges, plus the \$50.00 "five-year fee", plus pay additional property taxes to Bensenville. The additional property taxes for a home valued at \$230,931 are estimated to be \$736.82 per year, which equals \$61.40 per month. For an average customer who uses 4,000 gallons, this calculates to: $\$10.00 +$

$(\$10.00 \times 4) + \$50 + \$61.40 = \161.40 per month. After five years the \$50 fee expires, which results in the monthly water user cost decreasing to \$111.40 per month.

White Pines Area properties that elect to remain unincorporated will pay 275% of the current Within the Corporate Limits water service costs. The projected Outside the Corporate Limits user charges are a monthly fixed service charge depending on the size of the meter, which will be \$27.50 for 5/8 and 3/4-inch meters, plus a water rate of \$27.50 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$33.00 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$27.50 + (\$27.50 \times 4) = \$137.50/\text{month}$.

Number of Customers or Service Connections: The Bensenville water distribution system serves approximately 18,500 people within the Village corporate limits and approximately 750 people in the White Pines unincorporated area, for a total population of 19,250. There are approximately 3,928 residential, 434 commercial and 776 industrial water customers billed by the water system. There are 267 billed customers located in the White Pines area. The White Pines area has an additional 13 parcels that do not have a record of public water service and are assumed to be supplied by private water wells.

Median Household Income (MHI): The MHI for Bensenville is \$62,286. The MHI for DuPage County is \$81,521. Because the White Pines Area is located in an unincorporated section of DuPage County, the County MHI will be used to calculate the financial impact.

Financial Impact of the proposed project: In order to determine the financial impact of the proposed project on the community, a percentage comparison of the MHI to the annual cost for water service is utilized. According to the current fiscal year census information, the MHI for DuPage County (the White Pines Area service area) is \$81,521. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, including the monthly \$50 five-year fee is \$1,936.80 ($\$161.40 \times 12$ months), which is 2.38 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, after the monthly \$50 five-year fee expires is \$1,336.80 ($\111.40×12 months), which is 1.64 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Outside the Corporate Limits water user is \$ 1,650.00 ($\$137.50 \times 12$ months), which is 2.02 percent of the MHI for the area. Any amount less than 2.0 percent is considered to be affordable under State and Federal loan program criteria.

Public comments are invited on the proposed project. For further information contact:

Chris Nifong, Project Manager
Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

(217)782-2027

From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, June 11, 2019 9:43 AM
To: Joseph Caracci
Subject: FW: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: Bensenville L174402 PEID and cover.pdf

Hi Joe,

I assume you'll handle scheduling and advertising the public hearing. Please let me know if you have a date in mind and if it's something you'd like me to be present at. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Tuesday, June 11, 2019 9:33 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Bryan Welch <bwelch@cbbel.com>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Joe,

The attachment is a scanned copy of the PEID and 6-6-19 cover letter.

Chris Nifong

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, June 11, 2019 6:29 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Bryan Welch <bwelch@cbbel.com>
Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Chris,

Is it possible to get a copy of the cover letter that went out with this?

Thanks,

Joe

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, June 05, 2019 8:14 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

Since I didn't hear from you Monday or yesterday, I will assume that you have no comments on the draft PEID. I will be forwarding it to my manager for approval today. After the PEID and a cover letter are approved by IEPA management, they will be mailed out in the next couple of days.

Thanks, Chris Nifong

From: Nifong, Chris

Sent: Thursday, May 30, 2019 3:59 PM

To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan,

As long as the debt ordinance and demonstration for loan repayment cover the higher loan amount there is no problem. The loan is limited to the debt ordinance and repayment demonstration amounts. It is best to have the debt ordinance amount higher than the estimated project cost, in case the bids come in high. That way the Village doesn't have to redo the ordinance. This detailed financial information is provided by the Village as part the loan application. It gets reviewed by the IEPA loan program attorney and CPA.

I will be out tomorrow.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>

Sent: Thursday, May 30, 2019 3:30 PM

To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Thanks, Chris. Joe and I will review the PEID and get back to you tomorrow or Monday. In the meantime just a couple of things:

- The White Pines user charges will take effect on or around the start date of the construction project, since that is when interest on the loan will begin accruing.
- One question for you: If the project cost increases between planning approval and bid award, does that have an impact on loan approval? For example, if a project has an estimated construction cost of \$1M (plus a \$100k contingency) and the bid comes in at \$1.2M, does that create any issues or is the loan simply issued based on that \$1.2M bid award?

Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

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Date: JUN 06 2019

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Your participation in this process is appreciated.

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Total Project	\$7,870,000

The applicant is proposing to finance the project costs with a loan from the Public Water Supply Loan Program (PWSLP). The total estimated cost for the project is \$7,870,000. Bensenville indicates there is a \$900,000 balance in an Unincorporated Area Fund that will be used to pay a portion of the total projects. After subtracting the \$900,000 from the estimated project costs, the remaining estimated IEPA loan amount totals \$6,970,000. A \$6,970,000 loan, with an estimated interest rate of 1.84% for a twenty-year period, would have an annual repayment of approximately \$416,812. If the annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1561.10 per year, which equals \$130.09 per month.

The current loan program interest rate is 1.84%. The interest rate adjusts annually on July 1st. All loans are subject to the interest rate in effect at the time a loan agreement is issued. The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness, and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualification are found in Sections 662.210 and 662.250 of the Procedures for Issuing Loans from the PWSLP which is available on the Agency's website. The final decision for incentive qualification will be determined at the time a loan agreement is issued using updated Census Bureau and Department of Labor data. Using current data, the Village of Bensenville is eligible to receive a 1.38% small community interest rate and principal forgiveness of 75% of the initial loan up to a maximum of \$1,500,000. The Agency adjusts qualifying criteria annually on July 1st and the community specific information is also subject to change. Applicants that qualify for principal forgiveness will not have a repayment obligation for a portion of their loan. Principal forgiveness and/or a reduced interest rate will reduce the loan payment amount and possibly the associated increases to the user charges. Principal forgiveness is not guaranteed until a loan agreement is issued.

If the Village of Bensenville does receive the above referenced IEPA loan program incentive reductions, the possible cost savings to the estimated loan repayments can be calculated as follows: the maximum amount of principal forgiveness would subtract \$1,500,000 from the \$6,970,000 estimated initial loan amount, which would leave \$5,470,000 of remaining project costs to be repaid. A \$5,470,000 loan with an estimated interest rate of 1.38% for a twenty (20) year period, would have an annual repayment of approximately \$313,133. If this annual loan repayment amount is divided between the White Pines Area's 267 water service customers, each customer would pay \$1173.00 per year, which equals \$98.00 per month.

Source of Loan Repayment: The Village of Bensenville intends to repay the loan by increasing the water user charges for only the White Pines Area water service customers. This project will not impact the water charges for existing Bensenville water service customers located within the corporate limits. For customers located in the White Pines Area, there will be two water service categories and associated water use charges that depend on whether the property owner decides to have their property annexed into the Village of Bensenville or remain unincorporated.

If the property owner elects to annex into the Village, they will pay the the current "Within the Corporate Limits" user charges, plus a monthly \$50 fee (\$25 for people age 65 and older) for the first five years, and additional property taxes, that will also be used to repay the IEPA loan. After the five years, the incorporated White Pines Area customers will pay the same water user charges as the customers located within the corporate limits.

If the property owner elects to remain unincorporated, the White Pines Area "Outside the Corporate Limits" user charges will be set at 275% of the Village incorporated user charges. The customers who choose to remain unincorporated will continue to not pay property taxes to the Village of Bensenville. The new White Pines Area user charges will be implemented once project construction has started.

Current Average Monthly Residential Cost of Service: The current unincorporated user charges are calculated at 150% of the incorporated user charges. An average residential customer located in the White Pines project area reportedly uses approximately 4,000 gallons per month. A White Pines Area customer who has a $\frac{5}{8}$ and $\frac{3}{4}$ -inch meter and uses 4,000 gallons of water per month, would currently pay \$75.00 per month for water service.

How is the monthly residential rate/cost of service calculated? Bensenville's current water user charges and rates are determined by whether the customer is located within the Village limits or outside of the Village and the size of the water meter.

The current "Within the Corporate Limits" water user charge system is based on a monthly fixed service charge depending on the size of the meter, which is \$10.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$10.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.00 for amounts used above 10,000 gallons. For an average Within the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$10.00 + (\$10.00 \times 4) = \$50.00$ per month.

The current "Outside the Corporate Limits" water user charge system is based. on a monthly fixed service charge depending on the size of the meter, which is \$15.00 for $\frac{5}{8}$ and $\frac{3}{4}$ -inch meters, plus a water rate of \$15.00 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$12.74 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$15.00 + (\$15.00 \times 4) = \$75.00$ per month.

Projected Average Monthly Residential Cost of Service: Based on the source of loan repayment proposed by the Village, the projected water service costs for White Pines Area properties that elect to annex will pay the current Within the Corporate Limits user charges, plus the \$50.00 "five-year fee", plus pay additional property taxes to Bensenville. The additional property taxes for a home valued at \$230,931 are estimated to be \$736.82 per year, which equals \$61.40 per month. For an average customer who uses 4,000 gallons, this calculates to: $\$10.00 +$

$(\$10.00 \times 4) + \$50 + \$61.40 = \161.40 per month. After five years the \$50 fee expires, which results in the monthly water user cost decreasing to \$111.40 per month.

White Pines Area properties that elect to remain unincorporated will pay 275% of the current Within the Corporate Limits water service costs. The projected Outside the Corporate Limits user charges are a monthly fixed service charge depending on the size of the meter, which will be \$27.50 for 5/8 and 3/4-inch meters, plus a water rate of \$27.50 per each 1,000 gallons used. The 1,000 gallons water rate increases to \$33.00 for amounts used above 10,000 gallons. For an average Outside the Corporate Limits customer who uses 4,000 gallons, this calculates to: $\$27.50 + (\$27.50 \times 4) = \$137.50/\text{month}$.

Number of Customers or Service Connections: The Bensenville water distribution system serves approximately 18,500 people within the Village corporate limits and approximately 750 people in the White Pines unincorporated area, for a total population of 19,250. There are approximately 3,928 residential, 434 commercial and 776 industrial water customers billed by the water system. There are 267 billed customers located in the White Pines area. The White Pines area has an additional 13 parcels that do not have a record of public water service and are assumed to be supplied by private water wells.

Median Household Income (MHI): The MHI for Bensenville is \$62,286. The MHI for DuPage County is \$81,521. Because the White Pines Area is located in an unincorporated section of DuPage County, the County MHI will be used to calculate the financial impact.

Financial Impact of the proposed project: In order to determine the financial impact of the proposed project on the community, a percentage comparison of the MHI to the annual cost for water service is utilized. According to the current fiscal year census information, the MHI for DuPage County (the White Pines Area service area) is \$81,521. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, including the monthly \$50 five-year fee is \$1,936.80 ($\$161.40 \times 12$ months), which is 2.38 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Within the Corporate Limits water user, after the monthly \$50 five-year fee expires is \$1,336.80 ($\111.40×12 months), which is 1.64 percent of the MHI for the area. The projected total annual water cost for a White Pines Area Outside the Corporate Limits water user is \$ 1,650.00 ($\$137.50 \times 12$ months), which is 2.02 percent of the MHI for the area. Any amount less than 2.0 percent is considered to be affordable under State and Federal loan program criteria.

Public comments are invited on the proposed project. For further information contact:

Chris Nifong, Project Manager
Infrastructure Financial Assistance Section
Illinois Environmental Protection Agency
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

(217)782-2027

From: Bryan Welch <bwelch@cbbel.com>
Sent: Tuesday, June 11, 2019 3:00 PM
To: Joseph Caracci
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: PEID Advertisement.docx

Hi Joe,

Attached for your review is a draft PEID advertisement I prepared based on one I did recently for another project. Please let me know if there are any edits and then I will pass along to Chris Nifong for his blessing. This advertisement will need to be placed in the Daily Herald at least 10 days prior to the public hearing.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Bryan Welch
Sent: Tuesday, June 11, 2019 9:43 AM
To: Joe Caracci (<JCaracci@bensenville.il.us> <JCaracci@bensenville.il.us>
Subject: FW: Bensenville L1754402 PEID (version 2) and cover letter.docx

Hi Joe,

I assume you'll handle scheduling and advertising the public hearing. Please let me know if you have a date in mind and if it's something you'd like me to be present at. Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Tuesday, June 11, 2019 9:33 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Bryan Welch <bwelch@cbbel.com>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Joe,

The attachment is a scanned copy of the PEID and 6-6-19 cover letter.

Chris Nifong

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, June 11, 2019 6:29 AM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Bryan Welch <bwelch@cbbel.com>
Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Chris,

Is it possible to get a copy of the cover letter that went out with this?

Thanks,

Joe

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, June 05, 2019 8:14 AM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci <JCaracci@bensenville.il.us>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

Since I didn't hear from you Monday or yesterday, I will assume that you have no comments on the draft PEID. I will be forwarding it to my manager for approval today. After the PEID and a cover letter are approved by IEPA management, they will be mailed out in the next couple of days.

Thanks, Chris Nifong

From: Nifong, Chris
Sent: Thursday, May 30, 2019 3:59 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan,

As long as the debt ordinance and demonstration for loan repayment cover the higher loan amount there is no problem. The loan is limited to the debt ordinance and repayment demonstration amounts. It is best to have the debt ordinance amount higher than the estimated project cost, in case the bids come in high. That way the Village doesn't have to redo the ordinance. This detailed financial information is provided by the Village as part the loan application. It gets reviewed by the IEPA loan program attorney and CPA.

I will be out tomorrow.

Thanks, Chris Nifong

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, May 30, 2019 3:30 PM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Thanks, Chris. Joe and I will review the PEID and get back to you tomorrow or Monday. In the meantime just a couple of things:

- The White Pines user charges will take effect on or around the start date of the construction project, since that is when interest on the loan will begin accruing.
- One question for you: If the project cost increases between planning approval and bid award, does that have an impact on loan approval? For example, if a project has an estimated construction cost of \$1M (plus a \$100k contingency) and the bid comes in at \$1.2M, does that create any issues or is the loan simply issued based on that \$1.2M bid award?

Thanks.

Bryan Welch, PE

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Phone: (815) 770-2850 x101 | Fax: (815) 770-2855
E-Mail: bwelch@cbbel.com
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From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Thursday, May 30, 2019 2:33 PM
To: Bryan Welch <bwelch@cbbel.com>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>
Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx

Bryan and Joe,

I was copied on the IDNR OWR environmental sign-off email, which was the last thing needed to finish the draft PEID. The attachment is the draft PEID for the Bensenville project. Please review it and give me any comments and corrections that you have. Also, verify when the new White Pines user charges will take effect. Please return your comments to me by next Tuesday, because this will have to be approved by my manager and she will be away from work the following week.

Thanks, Chris Nifong

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

WHITE PINES WATER MAIN REPLACEMENT NOTICE OF PUBLIC HEARING. On _____, 2019 at _____ P.M. at the Bensenville Village Hall located at 12 S. Center Street, Bensenville, Illinois, the Village of Bensenville will hold a public hearing for the purpose of hearing public comments for the following: Section 662.330 of the Illinois Procedures for Issuing Loans from the Public Water Supply Loan Program requires that the Illinois Environmental Protection Agency (IEPA) conduct an assessment of the environmental impacts of proposed public water supply projects to be funded with loans. This review is carried out in conjunction with the Agency's review of the applicant's project plan. Prior to final approval of the project plan, the public's comments are sought regarding environmental impacts of the proposed project. Unless new information gained from the public comment process causes a reconsideration, the Agency will approve the project plan at the close of the public comment period. The Project Summary and Preliminary Environmental Impacts Determination (PEID) is available for public inspection at Bensenville Village Hall, 12 S. Center Street, Bensenville, Illinois 60106. IEPA will receive written comments regarding the White Pines Water Main Replacement project defined in the project plan for 10 days after the date of the public hearing. Comments can be addressed to: Evan Summers, Village Manager, Village of Bensenville, 12 S. Center Street, Bensenville, Illinois 60106 or Chris Nifong, Project Manager, Illinois Environmental Protection Agency, Infrastructure Financial Assistance Section, Bureau of Water, 1021 N. Grand Avenue East, PO Box 19276, Springfield, IL 62794-9276. Upon final approval of the project plan, the project will be scored for priority in accordance with Section 663 of the Procedures and Requirements for Determining Loan Priorities of Projects in the Public Water Supply Loan Program.

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Wednesday, June 12, 2019 9:24 AM
To: Joseph Caracci; Bryan Welch
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx
Attachments: Public notice for PWS PEID.docx

Joe,

The PEID public notice requirements are listed in Section 662.330 c) of the PWS loan program regulations. This information is available on the IEPA website at this link:
<http://www.ilga.gov/commission/jcar/admincode/035/035006620C03300R.html> It is up to Bensenville whether that want to hire an official recorder or use the City Clerk. You get to decide how to present the information at the hearing. You can summarize the PEID at the hearing or read it. It is also up to Bensenville to decide which City officials attend the meeting. You can hold the public hearing at a local school, library or other public meeting place. I suggest making certain that the size of the facility is adequate to accommodate a large number of attendees. Bensenville will have to respond to all comments and questions received at the hearing and written comments received by them and the IEPA. If I get any comments or questions during the comment period, I will forward them to you.

I am attaching an example of an advertisement for a PEID public hearing. If you want me to look at your draft advertisement, I will.

Bensenville must advertise the public hearing and make all planning information and PEID available for public review at least ten days before the public hearing and ten days following the hearing. Then Bensenville must send me documentation of all this, which includes: a copy of the advertisement for the hearing, certification of publication from the newspaper, hearing minutes/summary, and a comment period summary with copies of all written inquiries and the Villages' responses. Then I should be able to approve planning for the proposed project. Let me know if you have any other questions.

Chris Nifong

From: Joseph Caracci <JCaracci@bensenville.il.us>
Sent: Tuesday, June 11, 2019 5:13 PM
To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Bryan Welch <bwelch@cbbel.com>
Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Chris,

Also, do the comments need to be responded to or just accepted and reviewed?

Joe

From: Joseph Caracci
Sent: Tuesday, June 11, 2019 4:10 PM
To: 'Nifong, Chris' <Chris.Nifong@Illinois.gov>; Bryan Welch <bwelch@cbbel.com>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

Chris,

I have not been part of such a "public" hearing of this magnitude before. Can you provide any list of requirements for the hearing so I can make sure not to miss anything? For example:

Do I need to hire an official recorder or can my clerk summarize any public comments?

Am I required to read the PEID? It is being made public before and after the meeting. Can I summarize the main points of the PEID and open it up to comment?

Are elected officials required to be in attendance or can staff run the meeting?

Any insight would be greatly appreciated.

Once I get the draft advertisement together, can I run it past you for comment?

Thanks,

Joe

From: Nifong, Chris <Chris.Nifong@Illinois.gov>
Sent: Tuesday, June 11, 2019 9:33 AM
To: Joseph Caracci <JCaracci@bensenville.il.us>; Bryan Welch <bwelch@cbbel.com>
Subject: RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

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Sent: Wednesday, June 05, 2019 8:14 AM
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Sent: Thursday, May 30, 2019 3:30 PM

To: Nifong, Chris <Chris.Nifong@Illinois.gov>; Joseph Caracci (JCaracci@bensenville.il.us) <JCaracci@bensenville.il.us>

Subject: [External] RE: Bensenville L1754402 PEID (version 2) and cover letter.docx

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Thanks.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

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Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

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Subject: Bensenville L1754402 PEID (version 2) and cover letter.docx

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Thanks, Chris Nifong

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof,

including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

**PUBLIC NOTICE
PRELIMINARY ENVIRONMENTAL IMPACTS DETERMINATION**

The Village of Lake Villa intends to apply for and obtain funding for water system improvements utilizing a low interest loan from the Illinois Environmental Protection Agency (IEPA) Public Water Supply Loan Program (PWSLP). Section 662.520 of the Illinois Procedures for Issuing Loans from the PWSLP requires that the IEPA publish an assessment of the environmental impacts of proposed public water supply projects to be funded with loans. Prior to granting approval of the plan, the IEPA requires that the public be granted an opportunity to comment as to whether or not the anticipated impacts of the project have been adequately assessed.

The water system improvements projects to be funded by the PWSLP include the following: improvements to the Water Facilities Building at 222 Oak Knoll Drive, Lake Villa; construction of a 1.5 million gallon water storage tank, also at 222 Oak Knoll Drive, Lake Villa; and construction of a water main through the Sun Lake Forest Preserve to connect the Lake Villa water system to the Painted Lakes water system. Debt service costs for the PWSLP will result in an increase to the Village water rates. These water system improvements are intended to prepare the water system for connection to a new Lake Michigan water supply from the Central Lake County Joint Action Water Agency (CLCJAWA). Other related water system improvements will be funded using local funds.

The IEPA has reviewed the project plan and concurs with the Village's finding that the proposed project is technically appropriate and cost-effective. Unless new information provided through the public comment process causes a reconsideration, the IEPA will approve this planning at the close of the public comment period.

A copy of the Project Plan and the IEPA Project Summary and Preliminary Environmental Impacts Determination (PEID) are available for public inspection at the Lake Villa Village Hall, 65 Cedar Avenue, Lake Villa.

All interested parties are invited to review the documents and attend the public hearing on September XX, 2015, at X:XX PM, at the Lake Villa Village Hall, 65 Cedar Avenue, Lake Villa. Verbal comments will be accepted at the public hearing. Written comments may be submitted to the attention of Mr. Karl Warwick, Village Administrator, and Mr. Chris Nifong of the IEPA, within 10 days following the Public hearing date. The addresses for written comments are:

Mr. Karl Warwick
Village Administrator
Village of Lake Villa
65 Cedar Avenue
Lake Villa, Illinois 60046

Mr. Chris Nifong
Infrastructure Financial Assistance Section
Bureau of Water
P.O. Box 19276
Springfield, Illinois 62794-9276

From: Bryan Welch <bwelch@cbbel.com>
Sent: Thursday, June 13, 2019 10:01 AM
To: Joseph Caracci
Subject: MFT Distribution Analysis
Attachments: Transpo Funding Distribution under SB 1939 (1).pdf

Hi Joe,

I've had a couple of clients ask how the proposed MFT tax increase will impact their allocation in future years, presumably for budgeting purposes. Attached is an analysis performed by Local 150 regarding the MFT increase through SB 1939. Municipalities will see an additional increase across the state of \$145 million. This documents further breaks down numbers including what each county and what municipalities within each county will see. Keep in mind that this bill has not been signed yet by the Governor.

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

E-Mail: bwelch@cbbel.com

www.cbbel.com

The information contained in this e-mail is intended only for the individual or entity to whom it is addressed and should not be opened, read or utilized by any other party. This message shall not be construed as official project information or as direction except as expressly provided in the contract document. Its contents (including any attachments) may contain confidential and/or privileged information. If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents. If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

DISTRIBUTION OF NEW TRANSPORTATION FUNDING UNDER SB 1939 HOUSE AMENDMENT 2

Transportation funding in Illinois comes from a variety of sources, with the motor fuel tax and vehicle registration fees being the most significant. Revenues are distributed to various state funds and then appropriate agencies and geographic regions based on set formulas and set-asides. With the passage of SB 1939 House Amendment 2, revenue from the increase in motor fuel taxes will be dispersed slightly differently than the existing distribution process. The following report attempts to succinctly describe this process and provide funding estimates for specific agencies and regions following an increase in existing fees and taxes.

MOTOR FUEL TAX

A tax on motor fuel is collected on every gallon purchased in Illinois. Rates currently stand at \$0.19 per gallon for gasoline and \$0.215 per gallon for special fuels, including diesel. Under SB 1939, the tax on gasoline was increased by \$0.19 per gallon and the tax on special fuels was increased by \$0.24 per gallon. As such, an additional \$1.303 billion is expected to be generated. The following section summarizes how this new funding will be distributed between the state and local governments.

Figure 1: Distribution of Anticipated New Annual Revenues from Increasing Motor Fuel Taxes

Total New Annual Revenues from Increasing MFT	\$1,303,967,671
\$0.24/gallon of Special Fuels to Road Fund	\$376,179,029
\$0.19/gallon of Gasoline to Transportation Renewal Fund	\$927,788,642
MFT to be Distributed via Transportation Renewal Fund	\$927,788,642
Distributed to Road & Bridge Projects (80%)	\$742,230,914
State Construction Account Fund (60%)	\$445,338,548
Local Governments (40%)	\$296,892,366
Municipalities (49.10%)	\$145,774,151
Cook County (16.74%)	\$49,699,782
Other Counties (18.27%)	\$54,242,235
Townships and Road Districts (15.89%)	\$47,176,197
Distributed to Rail & Mass Transit (20%)	\$185,557,728
Regional Transportation Authority (RTA) Fund (90%)	\$167,001,956
Downstate Mass Transportation Fund (10%)	\$18,555,773

Source(s): IL Department of Revenue, 2018a (gallons taxed); IL Department of Revenue, 2018b (MFT rates);
Author's analysis of SB 1939 (distribution)

The distribution of the new revenues generated by the MFT increases in SB 1939 will be distributed slightly differently than existing MFT revenues. As summarized in Figure 1, proceeds from the increase in the special fuel tax will go to the Road Fund and proceeds from the increase in gasoline will go to the newly created Transportation Renewal Fund. From the Transportation Renewal Fund, funds are distributed between various state and local funds.

Specifically, 80% will support road and bridge projects and 20% will support rail and mass transit projects. Of the road and bridge projects distribution, 60% goes directly to the State Construction

Account Fund and 40% goes to local governments. The amount distributed to local governments is summarized below.

- Municipalities: 49.10% of total local government funding;
- Cook County: 16.74% of total local government funding;
- Other Counties: 18.27% of total local government funding; and
- Townships and Road Districts: 15.89% of total local government funding.

Figure 2: Distribution of Anticipated New Annual Revenues from Increasing the Motor Fuel Taxes to State and Local Governments

Total State Funding from Additional MFT Revenues		\$821,517,577
Road Fund		\$376,179,029
State Construction Account Fund		\$445,338,548
Total Local Government Funding from Additional MFT Revenues		\$482,450,094
Municipalities		\$145,774,151
Cook County		\$49,699,782
Other Counties		\$54,242,235
Townships and Road Districts		\$47,176,197
Regional Transportation Authority (RTA)		\$167,001,956
Downstate Mass Transit Agencies		\$18,555,773

Source(s): Author's analysis of SB 1939

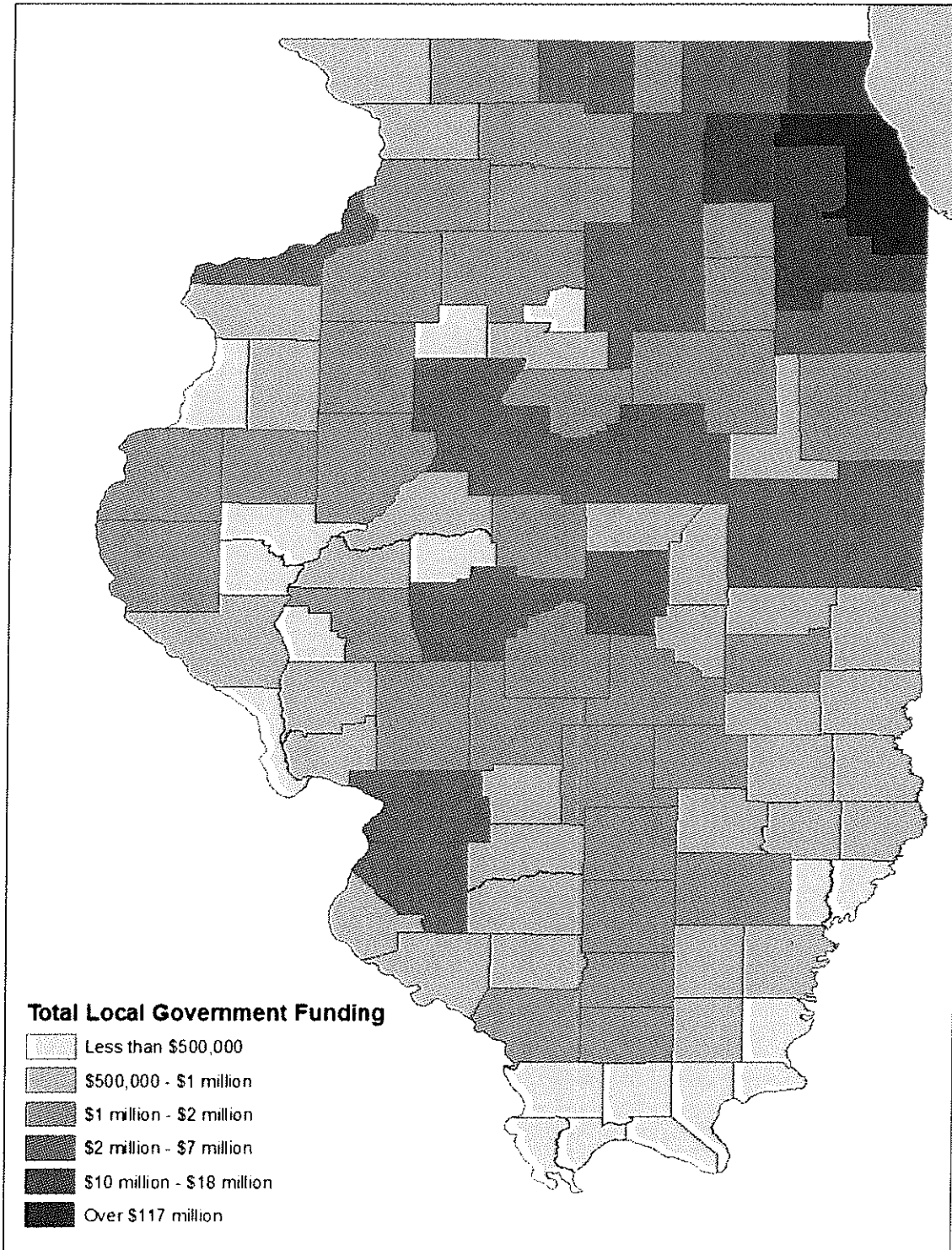
Total state and local funding is summarized in Figure 2. As a result of increased MFT rates under SB 1939, the state will receive an additional \$821 million in funding, of which \$376 million will go to the Road Fund and \$445 million will go to the State Construction Account.

- Road Fund: funding for IDOT administration, expenses for construction/reconstruction projects, administration for Chapters 2-10 of the Illinois Vehicle Code, and certain public transportation expenses (30 ILCS 105).
- State Construction Account Fund: funding to be used exclusively for the construction, reconstruction, and maintenance of the state maintained highway system; it cannot be used to administer or operate the MFT and cannot be used to pay employees (30 ILCS 105).

Local governments – including municipalities, counties, townships and road districts, and transit agencies – will receive an additional \$482 million. Specifically, municipalities can expect to receive an additional \$145.8 million, Cook County will receive over \$50 million, and all other counties will receive an additional \$54 million in new transportation funding. Additionally, the regional transportation authority will receive over \$167 million per year and downstate mass transit agencies will receive about \$18.6 million.

To further illustrate funding statewide, Figure 3 displays new local government funding by county. This amount includes all additional funding anticipated for municipalities, townships and road districts, and counties within each respective county. The funding breakdown between types of government for each county and a comparison to existing distributions can be found in the Appendix.

Figure 3: Additional Local Government Funding by County (aggregated funding from municipalities, townships and road districts, and counties) Anticipated from Increasing the MFT



VEHICLE REGISTRATION FEES

Passenger Vehicles

Every year, the owner of a passenger vehicle in Illinois is required to pay a registration fee. Fees currently stand at \$101. With the passage of SB 1939, passenger vehicle registration fees increased by \$50. Of that increase, \$49 per registration goes to the Road Fund and \$1 to the Special Services Fund

Electric Vehicles

Similarly, electric vehicles also pay a registration fee, however until the passage of SB 1939, it was on a two-year basis and cost \$35. Electric vehicles will now be subject to an annual registration fee equal to the standard passenger vehicle (\$151 under the new law), plus an additional \$100 per year fee. With the exception of the small set-aside for the Special Services Fund, all proceeds will go to the Road Fund.

Truck Registration Fees

Trucks can be registered under a variety of registrations, including flat weight, farm, and mileage rates. Truck registration fees also vary depending on the weight of the vehicle or trailer. These currently range from \$18 to \$2,890 per year. All truck fees were increased under SB 1939 by \$100. From these increases, \$99 per registration goes to the Road Fund and \$1 goes to the Special Services Fund.

Figure 4 summarizes the new annual revenue anticipated to be generated as a result of increased vehicle registration fees under SB 1939. All revenues from vehicle registration fee increases (with the exception of \$1 per registration for the Special Services Fund) is dedicated to the Road Fund.

Figure 4: Summary of Anticipated New Annual Revenues from Increasing Vehicle Registration Fees

Total New Annual Revenues from Increasing Vehicle Registration Fees*		\$492,125,610
Passenger vehicle registrations		\$441,119,266
Electric vehicle registrations		\$1,894,523
Truck registrations		\$49,111,821

*Only showing those revenues going to the Road Fund.

BONDING

In addition to increased transportation funding through fee increases, bonding is another component of the full capital plan. It provides additional funding for transportation projects, ranging from road and bridge to airports, mass transit, and multi-modal projects. The legislative changes corresponding to bonding are specified in HB 142 Senate Amendment 1. The following section will summarize these changes for transportation projects.

Figure 5 illustrates the authorization amount prior to the passage of HB 142, the amount the authorization increased by, and finally the new authorization amount. Under the New Authorization column, bold text indicates amounts that were changed in HB 142. For all transportation projects, the bonding authority now stands at over \$27 billion, due to an increase of \$11.099 billion. Specifically, state and local road project authority increased by almost \$6.5 billion and rail and mass transit project authority increased by \$586 million. Additionally, \$4.5 billion in bonding authority was newly created for multi-modal projects, including rail, port, mass transit, and airport projects.

Figure 5: Bonding Authority Increases for Transportation Projects Under HB 142

Project type	Previous Authorization	Increased by	New Authorization*	Proceeds Deposited
Transportation	\$15,948,199,000	\$11,099,863,400	\$27,048,062,400	
State and local road projects	\$5,432,129,000	\$6,489,225,200	\$11,921,354,200	Transportation Bond, Series A Fund
Statewide	\$3,330,000,000	\$6,489,221,200	\$9,819,221,200	
Outside Chicago Urbanized Area	\$3,677,000		\$3,677,000	
Within Chicago Urbanized Area	\$7,543,000		\$7,543,000	
City of Chicago	\$13,060,600		\$13,060,600	
Cook, DuPage, Kane, Lake, McHenry, and Will Counties	\$58,987,500	\$4,000	\$58,991,500	
All other counties	\$18,860,900		\$18,860,900	
Past IDOT Highway Improvement Programs	\$2,000,000,000		\$2,000,000,000	
Rail and mass transit	\$5,379,670,000	\$586,709,900	\$5,966,379,900	Transportation Bond, Series B Fund
Statewide	\$4,283,870,000	\$103,193,600	\$4,387,063,600	
Cook, DuPage, Kane, Lake, McHenry, and Will Counties	\$83,350,000		\$83,350,000	
Other counties	\$12,450,000		\$12,450,000	
Other projects throughout state	\$1,000,000,000	\$916,300	\$1,000,916,300	
Airport or aviation facilities	\$482,600,000		\$482,600,000	Transportation Bond, Series B Fund
State and local road projects related to economic development	\$4,653,800,000	\$6,528,300	\$4,660,328,300	Transportation Bond, Series D Fund
Rail, port, mass transit, and airport projects	\$0	\$4,500,000,000	\$4,500,000,000	Multi-modal transportation bond fund

* Bold text indicates a change made in HB 142

Source: HB 142 Senate Amendment 1

To further understand the type of projects this funding will support, Figure 6 provides a list of transportation projects listed under HB 62 – another component of the capital plan – that are backed by these bond funds. Specifically, I-80 in Joliet will receive \$848 million from the Transportation Bond Series A Fund to support an expansion project. The RTA will receive \$2.7 billion from the multi-modal transportation bond fund for general improvements, in addition specific improvements on other routes and at stations. Passenger rail projects in the Quad Cities, Rockford, and Carbondale will receive \$600 million. The CREATE Program – a series of rail improvements in the Chicago region to improve overall rail efficiencies – will receive \$400 million. And a variety of other projects summarized in Figure 6 will similarly be funded through these bonding proceeds.

Figure 6: Project List By Bond Fund Under HB 62

Fund	Project	Amount
Transportation Bond, Series A Fund	IDOT for general improvements	\$3,989,700,000
	I-80 Expansion in Joliet	\$848,300,000
	IDOT for grants to local governments	\$1,500,000,000
Multi-modal transportation bond fund	IDOT for grade crossing improvements at railroads	\$78,000,000
	IDOT for aeronautics projects	\$144,000,000
	Lewis University Airport	\$6,000,000
	RTA	\$2,230,500,000
	RTA (Kendall County Extension)	\$100,000,000
	RTA (Green Line Cottage Grove Station Repairs)	\$60,000,000
	RTA (Harvey Transportation Center)	\$8,000,000
	RTA (CTA Blue Line O'Hare branch)	\$31,500,000
	RTA (CTA Blue Line O'Hare branch)	\$50,000,000
	IDOT mass transit improvements	\$204,000,000
	Metro Link Extension from Scott Air Force Base	\$96,000,000
	Quad Cities Passenger Rail	\$225,000,000
	Chicago to Rockford Intercity Passenger Rail Expansion	\$275,000,000
	Chicago to Carbondale Passenger Rail Improvements	\$100,000,000
	Springfield rail improvements	\$122,000,000
	CREATE Program	\$400,000,000
	Ports	\$150,000,000
	RTA (suburban bus division)	\$220,000,000

Source: HB 62

REFERENCES

- Illinois Department of Revenue (ILDOR). (2018a). *Taxable Gallonage Breakdown*.
- Illinois Department of Revenue (ILDOR). (2018b). *What is the motor fuel tax rate in Illinois?*
- Illinois Department of Transportation (IDOT). (2018c). *MFT Allotments*.
- Illinois Secretary of State (ILSOS). (2018a). *Vehicle Counts by County*.
- Senate Bill 1939 House Amendment 2. (SB 1939).
- State Finance Act. 30 ILCS 105.

APPENDIX:

Local government MFT funding breakdown by county – existing distribution and additional funding from increasing existing MFT under SB 1939

County	County Distribution			Townships & Road Districts Distribution			Municipalities Distribution			TOTAL		
	Existing	Additional (increased MFT)	Total	Existing	Additional (increased MFT)	Total	Existing	Additional (increased MFT)	Total	Existing	Additional (increased MFT)	Total
Adams	\$1,066,652	\$544,516	\$1,611,168	\$1,524,114	\$778,046	\$2,302,160	\$1,209,654	\$617,295	\$1,826,949	\$3,800,419	\$1,939,857	\$5,740,276
Alexander	\$90,201	\$46,047	\$136,248	\$326,897	\$166,878	\$493,775	\$119,911	\$61,191	\$181,103	\$537,009	\$274,116	\$811,125
Bond	\$241,942	\$123,509	\$365,452	\$681,122	\$347,706	\$1,028,828	\$250,800	\$127,985	\$378,785	\$1,173,864	\$599,201	\$1,773,065
Boone	\$724,256	\$369,726	\$1,093,982	\$503,121	\$256,839	\$759,959	\$847,387	\$432,428	\$1,279,815	\$2,074,764	\$1,058,992	\$3,133,756
Brown	\$144,289	\$73,658	\$217,947	\$486,684	\$248,448	\$735,132	\$69,372	\$35,401	\$104,774	\$700,345	\$357,507	\$1,057,853
Bureau	\$585,990	\$299,142	\$885,132	\$1,434,620	\$732,361	\$2,166,981	\$667,265	\$340,510	\$1,007,774	\$2,687,874	\$1,372,013	\$4,059,887
Calhoun	\$89,440	\$45,658	\$135,099	\$339,532	\$173,328	\$512,860	\$45,498	\$23,218	\$68,715	\$474,470	\$242,204	\$716,674
Carroll	\$326,381	\$166,614	\$492,995	\$660,287	\$337,070	\$997,357	\$234,551	\$119,693	\$354,244	\$1,221,218	\$623,378	\$1,844,596
Cass	\$221,307	\$112,975	\$334,283	\$505,995	\$258,306	\$764,300	\$256,634	\$130,962	\$387,597	\$983,936	\$502,243	\$1,486,180
Champaign	\$2,217,735	\$1,132,134	\$3,349,869	\$2,005,609	\$1,023,845	\$3,029,454	\$4,349,349	\$2,219,504	\$6,568,853	\$8,572,693	\$4,375,483	\$12,948,176
Christian	\$537,125	\$274,198	\$811,323	\$1,432,597	\$731,328	\$2,163,924	\$635,739	\$324,422	\$960,161	\$2,605,461	\$1,329,947	\$3,935,408
Clark	\$292,399	\$149,267	\$441,667	\$1,001,073	\$511,039	\$1,512,111	\$216,741	\$110,604	\$327,345	\$1,510,213	\$770,910	\$2,281,123
Clay	\$234,734	\$119,830	\$354,564	\$898,100	\$458,472	\$1,356,572	\$199,468	\$101,790	\$301,258	\$1,332,303	\$680,092	\$2,012,394
Clinton	\$604,581	\$308,633	\$913,215	\$781,823	\$399,113	\$1,180,936	\$553,918	\$282,669	\$836,587	\$1,940,322	\$990,415	\$2,930,737
Coles	\$623,631	\$318,358	\$941,989	\$975,894	\$498,185	\$1,474,079	\$1,094,733	\$558,650	\$1,653,382	\$2,694,258	\$1,375,193	\$4,069,451
Cook	\$97,356,843	\$49,699,782	\$147,056,625	\$440,039	\$224,636	\$664,675	\$131,502,000	\$67,106,405	\$198,608,405	\$229,298,882	\$117,030,823	\$346,329,705
Crawford	\$307,696	\$157,076	\$464,771	\$843,410	\$430,553	\$1,273,963	\$295,223	\$150,654	\$445,877	\$1,446,328	\$738,283	\$2,184,611
Cumberland	\$165,279	\$84,373	\$249,652	\$782,221	\$399,317	\$1,181,538	\$117,966	\$60,199	\$178,165	\$1,065,466	\$543,889	\$1,609,356
DeKalb	\$1,310,085	\$668,786	\$1,978,871	\$1,018,096	\$519,729	\$1,537,825	\$2,283,480	\$1,165,276	\$3,448,756	\$4,611,661	\$2,353,791	\$6,965,453
De Witt	\$265,446	\$135,508	\$400,954	\$742,302	\$378,938	\$1,121,240	\$286,420	\$146,162	\$432,583	\$1,294,168	\$660,608	\$1,954,777
Douglas	\$311,659	\$159,099	\$470,758	\$820,985	\$419,106	\$1,240,091	\$358,403	\$182,895	\$541,298	\$1,491,047	\$761,100	\$2,252,147
DuPage	\$14,487,876	\$7,395,929	\$21,883,805	\$536,673	\$273,967	\$810,640	\$20,153,178	\$10,284,310	\$30,437,488	\$35,177,727	\$17,954,206	\$53,131,933
Edgar	\$286,598	\$146,306	\$432,904	\$1,140,662	\$582,297	\$1,722,959	\$313,622	\$160,043	\$473,665	\$1,740,881	\$888,646	\$2,629,528
Edwards	\$114,898	\$58,654	\$173,552	\$378,361	\$193,150	\$571,511	\$83,549	\$42,636	\$126,184	\$576,808	\$294,440	\$871,248

Effingham	\$713,335	\$364,151	\$1,077,485	\$934,478	\$477,043	\$1,411,521	\$491,288	\$250,708	\$741,995	\$2,139,101	\$1,091,901	\$3,231,002
Fayette	\$339,985	\$173,559	\$513,544	\$1,429,956	\$729,979	\$2,159,935	\$287,213	\$146,567	\$433,781	\$2,057,154	\$1,050,106	\$3,107,260
Ford	\$214,494	\$109,497	\$323,991	\$939,480	\$479,596	\$1,419,076	\$270,836	\$138,210	\$409,046	\$1,424,810	\$727,303	\$2,152,113
Franklin	\$526,824	\$268,939	\$795,762	\$768,797	\$392,464	\$1,161,262	\$688,401	\$351,296	\$1,039,697	\$1,984,022	\$1,012,699	\$2,996,721
Fulton	\$508,604	\$259,638	\$768,242	\$1,172,818	\$598,713	\$1,771,531	\$698,970	\$356,689	\$1,055,659	\$2,380,392	\$1,215,040	\$3,595,432
Gallatin	\$117,085	\$59,771	\$176,856	\$446,441	\$227,904	\$674,346	\$95,294	\$48,629	\$143,924	\$658,821	\$336,305	\$995,126
Greene	\$224,513	\$114,612	\$339,126	\$796,435	\$406,573	\$1,203,008	\$231,122	\$117,943	\$349,065	\$1,252,070	\$639,128	\$1,891,198
Grundy	\$887,829	\$453,229	\$1,341,058	\$666,298	\$340,139	\$1,006,438	\$956,807	\$488,265	\$1,445,072	\$2,510,934	\$1,281,633	\$3,792,567
Hamilton	\$143,786	\$73,401	\$217,188	\$894,106	\$456,433	\$1,350,539	\$95,166	\$48,564	\$143,730	\$1,133,058	\$578,398	\$1,711,457
Hancock	\$329,472	\$168,193	\$497,665	\$1,449,478	\$739,945	\$2,189,423	\$328,975	\$167,878	\$496,853	\$2,107,925	\$1,076,016	\$3,183,941
Hardin	\$53,362	\$27,241	\$80,603	\$217,580	\$111,073	\$328,652	\$45,472	\$23,205	\$68,677	\$316,414	\$161,518	\$477,932
Henderson	\$134,623	\$68,724	\$203,346	\$554,685	\$283,162	\$837,847	\$91,916	\$46,906	\$138,822	\$781,224	\$398,791	\$1,180,015
Henry	\$804,869	\$410,878	\$1,215,747	\$1,349,778	\$689,049	\$2,038,827	\$912,026	\$465,413	\$1,377,439	\$3,066,672	\$1,565,341	\$4,632,013
Iroquois	\$537,612	\$274,446	\$812,058	\$2,166,737	\$1,106,100	\$3,272,837	\$495,279	\$252,745	\$748,024	\$3,199,628	\$1,633,290	\$4,832,919
Jackson	\$668,476	\$341,251	\$1,009,727	\$738,046	\$376,766	\$1,114,812	\$1,010,467	\$515,649	\$1,526,116	\$2,416,990	\$1,233,666	\$3,650,655
Jasper	\$178,893	\$91,323	\$270,217	\$997,905	\$509,421	\$1,507,326	\$95,755	\$48,864	\$144,619	\$1,272,553	\$649,609	\$1,922,162
Jefferson	\$488,107	\$249,174	\$737,281	\$1,169,834	\$597,189	\$1,767,023	\$534,559	\$272,789	\$807,348	\$2,192,500	\$1,119,153	\$3,311,653
Jersey	\$323,295	\$165,039	\$488,335	\$493,547	\$251,951	\$745,498	\$263,339	\$134,384	\$397,722	\$1,080,181	\$551,374	\$1,631,555
Jo Daviess	\$373,540	\$190,689	\$564,229	\$933,247	\$476,414	\$1,409,661	\$285,038	\$145,457	\$430,495	\$1,591,826	\$812,560	\$2,404,386
Johnson	\$172,418	\$88,018	\$260,436	\$457,020	\$233,305	\$690,325	\$84,317	\$43,027	\$127,344	\$713,755	\$364,350	\$1,078,105
Kane	\$6,576,743	\$3,357,368	\$9,934,111	\$699,525	\$357,101	\$1,056,626	\$13,915,804	\$7,101,334	\$21,017,138	\$21,192,072	\$10,815,802	\$32,007,875
Kankakee	\$1,449,549	\$739,982	\$2,189,530	\$1,136,682	\$580,266	\$1,716,949	\$2,156,813	\$1,100,637	\$3,257,451	\$4,743,045	\$2,420,885	\$7,163,929
Kendall	\$1,529,351	\$780,720	\$2,310,070	\$465,409	\$237,587	\$702,997	\$1,677,737	\$856,161	\$2,533,898	\$3,672,497	\$1,874,468	\$5,546,965
Knox	\$656,298	\$335,034	\$991,332	\$1,128,966	\$576,327	\$1,705,293	\$1,120,219	\$571,656	\$1,691,875	\$2,905,483	\$1,483,017	\$4,388,500
Lake	\$9,236,390	\$4,715,093	\$13,951,483	\$613,910	\$313,396	\$927,306	\$15,408,624	\$7,863,130	\$23,271,754	\$25,258,924	\$12,891,619	\$38,150,543
LaSalle	\$1,623,732	\$828,900	\$2,452,633	\$1,862,459	\$950,769	\$2,813,228	\$2,098,265	\$1,070,760	\$3,169,025	\$5,584,457	\$2,850,429	\$8,434,886
Lawrence	\$221,098	\$112,868	\$333,966	\$673,876	\$344,008	\$1,017,884	\$260,985	\$133,182	\$394,167	\$1,155,959	\$590,058	\$1,746,017
Lee	\$506,553	\$258,590	\$765,143	\$1,185,086	\$604,976	\$1,790,062	\$576,679	\$294,283	\$870,962	\$2,268,317	\$1,157,849	\$3,426,167
Livingston	\$598,250	\$305,401	\$903,651	\$2,092,454	\$1,068,179	\$3,160,633	\$680,162	\$347,091	\$1,027,253	\$3,370,866	\$1,720,671	\$5,091,537
Logan	\$414,983	\$211,845	\$626,828	\$1,048,138	\$535,065	\$1,583,203	\$513,934	\$262,264	\$776,198	\$1,977,055	\$1,009,174	\$2,986,229
Macon	\$1,452,361	\$741,417	\$2,193,778	\$1,018,119	\$519,740	\$1,537,859	\$2,455,951	\$1,253,289	\$3,709,241	\$4,926,431	\$2,514,447	\$7,440,878
Macoupin	\$783,410	\$399,924	\$1,183,334	\$1,366,454	\$697,562	\$2,064,016	\$838,022	\$427,648	\$1,265,670	\$2,987,886	\$1,525,135	\$4,513,021

Madison	\$3,583,883	\$1,829,540	\$5,413,422	\$1,017,004	\$519,171	\$1,536,176	\$5,568,139	\$2,841,461	\$8,409,599	\$10,169,026	\$5,190,172	\$15,359,197
Marion	\$564,762	\$288,306	\$853,069	\$1,041,204	\$531,525	\$1,572,730	\$725,480	\$370,218	\$1,095,698	\$2,331,447	\$1,190,049	\$3,521,496
Marshall	\$208,956	\$106,670	\$315,627	\$586,767	\$299,539	\$886,306	\$210,215	\$107,274	\$317,490	\$1,005,939	\$513,484	\$1,519,422
Mason	\$247,154	\$126,170	\$373,324	\$846,239	\$431,997	\$1,278,236	\$235,574	\$120,215	\$355,790	\$1,328,967	\$678,382	\$2,007,349
Massac	\$181,857	\$92,836	\$274,694	\$397,701	\$203,023	\$600,724	\$201,669	\$102,913	\$304,582	\$781,227	\$398,772	\$1,179,999
McDonough	\$368,364	\$188,047	\$556,411	\$1,072,089	\$547,292	\$1,619,381	\$725,838	\$370,400	\$1,096,239	\$2,166,292	\$1,105,739	\$3,272,031
McHenry	\$4,418,924	\$2,255,820	\$6,674,744	\$983,760	\$502,201	\$1,485,961	\$6,626,483	\$3,381,542	\$10,008,025	\$12,029,167	\$6,139,563	\$18,168,730
McLean	\$2,327,292	\$1,188,061	\$3,515,353	\$1,981,395	\$1,011,484	\$2,992,880	\$3,842,683	\$1,960,948	\$5,803,631	\$8,151,370	\$4,160,494	\$12,311,864
Menard	\$205,546	\$104,929	\$310,475	\$522,478	\$266,720	\$789,198	\$148,418	\$75,739	\$224,156	\$876,441	\$447,388	\$1,323,829
Mercer	\$269,672	\$137,665	\$407,337	\$947,704	\$483,794	\$1,431,498	\$225,799	\$115,227	\$341,026	\$1,443,175	\$736,686	\$2,179,861
Monroe	\$542,780	\$277,084	\$819,864	\$558,009	\$284,859	\$842,868	\$581,726	\$296,859	\$878,585	\$1,682,515	\$858,802	\$2,541,317
Montgomery	\$451,873	\$230,677	\$682,550	\$1,258,083	\$642,240	\$1,900,322	\$572,175	\$291,985	\$864,160	\$2,282,131	\$1,164,902	\$3,447,033
Morgan	\$520,582	\$265,752	\$786,335	\$949,742	\$484,834	\$1,434,576	\$707,107	\$360,842	\$1,067,949	\$2,177,431	\$1,111,429	\$3,288,859
Moultrie	\$237,671	\$121,329	\$358,999	\$659,952	\$336,899	\$996,852	\$202,027	\$103,096	\$305,123	\$1,099,649	\$561,324	\$1,660,973
Ogle	\$812,931	\$414,994	\$1,227,926	\$1,209,435	\$617,405	\$1,826,840	\$776,044	\$396,021	\$1,172,065	\$2,798,411	\$1,428,421	\$4,226,831
Peoria	\$2,459,596	\$1,255,601	\$3,715,197	\$891,659	\$455,184	\$1,346,844	\$3,832,089	\$1,955,542	\$5,787,631	\$7,183,344	\$3,666,327	\$10,849,671
Perry	\$275,875	\$140,832	\$416,707	\$598,735	\$305,649	\$904,383	\$350,265	\$178,743	\$529,008	\$1,224,875	\$625,223	\$1,850,099
Piatt	\$275,224	\$140,499	\$415,724	\$860,757	\$439,409	\$1,300,165	\$307,762	\$157,053	\$464,814	\$1,443,743	\$736,961	\$2,180,704
Pike	\$303,867	\$155,121	\$458,988	\$1,337,391	\$682,726	\$2,020,117	\$277,515	\$141,618	\$419,133	\$1,918,773	\$979,465	\$2,898,239
Pope	\$53,132	\$27,123	\$80,255	\$392,908	\$200,576	\$593,485	\$19,678	\$10,042	\$29,720	\$465,718	\$237,741	\$703,460
Pulaski	\$82,276	\$42,001	\$124,276	\$303,969	\$155,173	\$459,142	\$79,557	\$40,598	\$120,155	\$465,801	\$237,773	\$703,574
Putnam	\$106,649	\$54,443	\$161,092	\$258,881	\$132,156	\$391,038	\$89,665	\$45,756	\$135,421	\$455,194	\$232,356	\$687,550
Randolph	\$485,690	\$247,940	\$733,630	\$720,768	\$367,946	\$1,088,714	\$612,401	\$312,513	\$924,914	\$1,818,859	\$928,399	\$2,747,258
Richland	\$260,376	\$132,920	\$393,296	\$774,327	\$395,287	\$1,169,613	\$264,567	\$135,010	\$399,577	\$1,299,270	\$663,217	\$1,962,487
Rock Island	\$1,804,926	\$921,398	\$2,726,324	\$484,216	\$247,188	\$731,404	\$3,327,495	\$1,698,044	\$5,025,539	\$5,616,637	\$2,866,631	\$8,483,268
Saline	\$356,005	\$181,737	\$537,743	\$601,315	\$306,966	\$908,281	\$420,687	\$214,680	\$635,366	\$1,378,007	\$703,383	\$2,081,389
Sangamon	\$2,623,575	\$1,339,311	\$3,962,886	\$1,371,087	\$699,927	\$2,071,015	\$4,174,984	\$2,130,524	\$6,305,509	\$8,169,646	\$4,169,763	\$12,339,409
Schuyler	\$124,588	\$63,601	\$188,189	\$752,190	\$383,986	\$1,136,176	\$92,019	\$46,958	\$138,977	\$968,797	\$494,545	\$1,463,343
Scott	\$89,524	\$45,701	\$135,226	\$366,811	\$187,254	\$554,065	\$80,939	\$41,304	\$122,242	\$537,274	\$274,259	\$811,533
Shelby	\$371,350	\$189,571	\$560,920	\$1,598,747	\$816,146	\$2,414,893	\$302,746	\$154,494	\$457,240	\$2,272,843	\$1,160,210	\$3,433,053
St. Clair	\$3,476,767	\$1,774,858	\$5,251,625	\$794,781	\$405,729	\$1,200,510	\$5,539,783	\$2,826,991	\$8,366,774	\$9,811,331	\$5,007,577	\$14,818,908
Stark	\$115,559	\$58,992	\$174,551	\$464,594	\$237,171	\$701,764	\$94,987	\$48,473	\$143,460	\$675,140	\$344,635	\$1,019,775

Stephenson	\$670,401	\$342,234	\$1,012,635	\$1,045,127	\$533,528	\$1,578,656	\$854,296	\$435,953	\$1,290,250	\$2,569,825	\$1,311,715	\$3,881,540
Tazewell	\$1,908,935	\$974,494	\$2,883,429	\$1,032,631	\$527,149	\$1,559,780	\$2,817,421	\$1,437,750	\$4,255,171	\$5,758,988	\$2,939,393	\$8,698,381
Union	\$236,018	\$120,485	\$356,503	\$489,577	\$249,925	\$739,502	\$220,119	\$112,328	\$332,447	\$945,714	\$482,738	\$1,428,451
Vermilion	\$974,914	\$497,685	\$1,472,598	\$1,629,495	\$831,843	\$2,461,338	\$1,507,154	\$769,111	\$2,276,266	\$4,111,563	\$2,098,639	\$6,210,202
Wabash	\$170,512	\$87,045	\$257,556	\$347,396	\$177,342	\$524,738	\$210,983	\$107,666	\$318,649	\$728,891	\$372,053	\$1,100,944
Warren	\$254,352	\$129,844	\$384,196	\$982,330	\$501,470	\$1,483,800	\$314,978	\$160,735	\$475,713	\$1,551,659	\$792,050	\$2,343,709
Washington	\$301,653	\$153,991	\$455,644	\$832,492	\$424,980	\$1,257,472	\$202,718	\$103,448	\$306,166	\$1,336,863	\$682,419	\$2,019,282
Wayne	\$284,430	\$145,199	\$429,628	\$1,514,578	\$773,178	\$2,287,756	\$199,417	\$101,764	\$301,181	\$1,998,424	\$1,020,141	\$3,018,565
White	\$274,868	\$140,317	\$415,185	\$999,285	\$510,126	\$1,509,411	\$257,991	\$131,654	\$389,645	\$1,532,143	\$782,098	\$2,314,241
Whiteside	\$811,289	\$414,155	\$1,225,444	\$1,101,177	\$562,141	\$1,663,317	\$985,902	\$503,113	\$1,489,014	\$2,898,367	\$1,479,409	\$4,377,776
Will	\$9,003,729	\$4,596,322	\$13,600,051	\$1,262,244	\$644,364	\$1,906,607	\$13,223,987	\$6,748,294	\$19,972,281	\$23,489,960	\$11,988,980	\$35,478,940
Williamson	\$864,548	\$441,344	\$1,305,892	\$690,135	\$352,308	\$1,042,443	\$1,158,194	\$591,035	\$1,749,228	\$2,712,877	\$1,384,686	\$4,097,564
Winnebago	\$3,618,404	\$1,847,163	\$5,465,567	\$864,350	\$441,243	\$1,305,593	\$6,072,988	\$3,099,089	\$9,172,077	\$10,555,743	\$5,387,494	\$15,943,237
Woodford	\$633,728	\$323,512	\$957,240	\$889,916	\$454,294	\$1,344,210	\$606,695	\$309,601	\$916,296	\$2,130,339	\$1,087,407	\$3,217,746

Source(s): Author's analysis of increased revenues of MFT increase using existing distribution of MFT found at IDOT, 2018c

From: Bryan Welch <bwelch@cbbel.com>
Sent: Monday, June 17, 2019 3:47 PM
To: Joseph Caracci
Subject: Conference Call

Hey, I saw you sent out the conference call meeting request to other Village staff. Will you all be in the same location or should I send out call-in info?

Bryan Welch, PE

Assistant Department Head, Civil Engineering Design

Christopher B. Burke Engineering, Ltd.

16221 W. 159th Street, Suite 201 | Lockport, IL 60441

Phone: (815) 770-2850 x101 | Fax: (815) 770-2855

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