



United City of Yorkville

800 Game Farm Road

Yorkville, Illinois 60560

Telephone: 630-553-4350

www.yorkville.il.us

AGENDA PUBLIC WORKS COMMITTEE MEETING

Tuesday, March 20, 2018

6:00 p.m.

City Hall Conference Room
800 Game Farm Road, Yorkville, IL

Citizen Comments:

Minutes for Correction/Approval: February 20, 2018

New Business:

1. PW 2018-21 Snow Operations Report
2. PW 2018-22 Request to Dispose of Vehicles
3. PW 2018-23 IDOT Resolution for Casey's Highway Permit
4. PW 2018-24 Fox Highlands Water Main Improvements – Engineering Agreement
5. PW 2018-25 Grande Reserve Unit 2 – Acceptance of Improvements
6. PW 2018-26 Grande Reserve Unit 5 – Acceptance of Improvements
7. PW 2018-27 Anthony Place – Acceptance of Improvements
8. PW 2018-28 2018 Sanitary Sewer Lining Program – Contract Award
9. PW 2018-29 2018 Road to Better Roads Program – Contract Award
10. PW 2018-30 Whispering Meadows – Completion of Improvements – RFP
11. PW 2018-31 Traffic Control Requests – Sutton Street and Windett Ridge Road
12. PW 2018-32 CMAP Local Technical Assistance Program Grant for Planning and Technical Assistance Services for the Study of Shared Water Supply Service Governance Options
13. PW 2018-33 Baseline Road Status

Old Business:

Additional Business:

2017/2018 City Council Goals – Public Works Committee		
Goal	Priority	Staff
“Municipal Building Needs and Planning”	5	Bart Olson & Eric Dhuse
“Vehicle Replacement”	6	Bart Olson & Eric Dhuse
“Water Planning”	8	Eric Dhuse & Brad Sanderson
“Capital Improvement Plan”	11	Bart Olson & Eric Dhuse
“Water Conservation Plan”	15	Eric Dhuse & Brad Sanderson

UNITED CITY OF YORKVILLE
WORKSHEET
PUBLIC WORKS COMMITTEE
Tuesday, March 20, 2018
6:00 PM
CITY HALL CONFERENCE ROOM

CITIZEN COMMENTS:

MINUTES FOR CORRECTION/APPROVAL:

1. February 20, 2018

- ☐ Approved _____
- ☐ As presented
- ☐ With corrections

NEW BUSINESS:

1. PW 2018-21 Snow Operations Report

- ☐ Moved forward to CC _____ consent agenda? Y N
- ☐ Approved by Committee _____
- ☐ Bring back to Committee _____
- ☐ Informational Item
- ☐ Notes _____
- _____
- _____

2. PW 2018-22 Request to Dispose of Vehicles

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

3. PW 2018-23 IDOT Resolution for Casey's Highway Permit

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

4. PW 2018-24 Fox Highlands Water Main Improvements – Engineering Agreement

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

5. PW 2018-25 Grande Reserve Unit 2 – Acceptance of Improvements

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

6. PW 2018-26 Grande Reserve Unit 5 – Acceptance of Improvements

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

7. PW 2018-27 Anthony Place – Acceptance of Improvements

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

8. PW 2018-28 2018 Sanitary Sewer Lining – Contract Award

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

9. PW 2018-29 2018 Road to Better Roads Program – Contract Award

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

10. PW 2018-30 Whispering Meadows – Completion of Improvements – RFP

☐ Moved forward to CC _____ consent agenda? Y N

☐ Approved by Committee _____

☐ Bring back to Committee _____

☐ Informational Item

☐ Notes _____

11. PW 2018-31 Traffic Control Requests – Sutton Street and Windett Ridge Road

- ☐ Moved forward to CC _____ consent agenda? Y N
- ☐ Approved by Committee _____
- ☐ Bring back to Committee _____
- ☐ Informational Item
- ☐ Notes _____
- _____
- _____

12. PW 2018-32 CMAP LTA Grant for Planning and Technical Assistance Services for the Study of Shared Water Supply Service Governance Options

- ☐ Moved forward to CC _____ consent agenda? Y N
- ☐ Approved by Committee _____
- ☐ Bring back to Committee _____
- ☐ Informational Item
- ☐ Notes _____
- _____
- _____

13. PW 2018-33 Baseline Road Condition

- ☐ Moved forward to CC _____ consent agenda? Y N
- ☐ Approved by Committee _____
- ☐ Bring back to Committee _____
- ☐ Informational Item
- ☐ Notes _____
- _____
- _____

ADDITIONAL BUSINESS:



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

Minutes

Tracking Number

Agenda Item Summary Memo

Title: Minutes of the Public Works Committee – February 20, 2018

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: _____

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Committee Approval

Submitted by: Minute Taker

Name

Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at <http://www.yorkville.il.us/320/City-Council>

DRAFT

**UNITED CITY OF YORKVILLE
PUBLIC WORKS COMMITTEE
Tuesday, February 20, 2018, 6:00pm
Yorkville City Hall, Conference Room
800 Game Farm Road**

IN ATTENDANCE:

Committee Members

Chairman Joel Frieders

Alderman Jackie Milschewski

Alderman Ken Koch

Alderman Seaver Tarulis

Other City Officials

City Administrator Bart Olson

Public Works Director Eric Dhuse

Alderman Chris Funkhouser

Interim Assistant City Administrator Erin Willrett

Engineer Brad Sanderson, EEI

Other Guests:

Rich Guerard, Caledonia

The meeting was called to order at 6:00pm by Chairman Joel Frieders.

Citizen Comments: None

Previous Meeting Minutes: January 16, 2018

The minutes were approved as presented.

New Business:

1. PW 2018-08 Snow Operations Report

Mr. Dhuse said 2,234 miles were driven in the first 3 days of a recent snow storm. There were also some mailboxes damaged and there was a brief discussion on money paid to mailbox owners in other towns. Alderman Tarulis noted that the Post Office was backing down on a proposal to place 5-6 cluster mailboxes in new areas being built and instead will only have 2.

2. PW 2018-09 Bristol Bay Unit 3 – Maintenance Bond Release

Mr. Sanderson reported the improvements were accepted in Bristol Bay Unit 3 in January and he recommended the release of the bonds. This moves to the consent agenda.

3. PW 2018-10 Galena Road – Transfer of Easement for Right of Way to Kendall County

The city and county had an IGA regarding improvements which also involved some funding. The city agreed to dedicate some right of way and this is the formal dedication. It is not known when the bridge on Galena will be closed for repairs. This moves to the consent agenda.

4. PW 2018-11 Wrigley EDP Project – Change Order No. 5

This is the finalization of the contract and the balancing change order reflects a decrease of \$5,900. Approval is recommended and this moves to the consent agenda.

5. PW 2018-12 Fountain Village – Completion of Improvements – Bid Award

Funding was obtained to complete Fountain Village punchlist items. The job was awarded to the low bidder, Wilkinson Excavating from Somonauk, in the amount of \$130,455. Since it was well below the estimate, Mr. Sanderson recommended contract approval. The committee agreed and this item moves to the consent agenda.

6. PW 2018-13 Caledonia Warranty Bond Period

Improvements were accepted February 2017 and a one year maintenance guarantee was provided. Three items on the punchlist cannot be completed until the weather improves and the guarantee expires at the end of the month. Mr. Sanderson outlined 3 options and the option chosen was for a new letter of credit for \$60,000 with an expiration date of July 1. The committee and Mr. Guerard approved of this option and it moves to the consent agenda.

7. PW 2018-14 Kennedy Road – ITEP Authorizations Nos. 4 and 5

Mr. Sanderson said #4 was for relocation of warning signs at a cost of \$770. Change order #5 was for the addition of a power pole and street light near the park entrance at a cost of \$2,343.35. This was approved and moves to the consent agenda.

8. PW 2018-15 Federal RTP Grant – ComEd/Fox Road Trails

Ms. Willrett presented two proposals for grant applications due March 1. Public Hearings will also be held since they are new trails. She said there is a good chance the city could receive the grants and it will take a year for the decision. Mr. Olson added these applications “piggyback” on the ITEP application and there is a possibility of receiving 2 grants. This moves to the Council consent agenda on February 27th. If the city rejects the grant there is no penalty.

9. PW 2018-16 Supplemental MFT Resolution for Salt Purchase

Mr. Dhuse said the city needs more road salt since 400 tons were used in the previous week, leaving 200 tons. He wishes to purchase as much as possible since the price is good at \$48.05 per ton. He thinks the cost will increase next year. Storage is an issue, but he said it would be placed in a lean-to or under a tarp. The committee approved and this moves to the consent agenda.

10. PW 2018-17 Route 71 – City/State Agreement

This agreement is for the eastern leg of the improvements starting at Rt. 47 to Rt. 126, but not including the Rt. 47 & 71 intersection. Mr. Olson added this includes half of the Rt. 71 watermain project. The cost of the watermain project will be about \$200,000 less than thought. Part of the infrastructure in Raintree Village and Fox Highland subdivisions will be used as well as other new infrastructure to help reduce costs. The total cost will be split among various funds and done in phases.

As a side note, Alderman Funkhouser inquired if the city can receive any reimbursement for the emergency light pre-emption service used by BKFD, but not by the Police Department. Mr. Olson said the city had paid for it at 100% (cost \$12,000) and it was an elected purchase. He said that BKFD could be asked for reimbursement.

11. PW 2018-18 Route 71 Improvements – Water and Sewer Update

This was discussed in #10. This update includes exhibits and shows what has been done. This item moves to the consent agenda.

12. PW 2018-19 US Route 34 Improvements (Center to Eldamain) – Noise Wall Texture and Color Selection

The city has choices for color and texture regarding the noise and retaining walls. The walls are needed based on an analysis from calculations that were done. After discussion, the committee decided on the least expensive options. For the noise wall, they chose option #1 texture with buff/beige color and the retaining wall should match the wall on Rt. 30. This moves to the consent agenda.

13. PW 2018-20 YBSD Capacity and Communications

Ms. Willrett said that YBSD had contacted her regarding the permit issues with some of the industrial users such as Aurora Textiles. YBSD is working with the users to pre-empt equipment failure. Recognizing the growth in Yorkville, YBSD is applying for a pre-treatment program to be able to accept larger capacities. A staff meeting was also held with YBSD and they confirmed they are 2/3 full with hydraulic capacity and ¾ full of biological capacity. She said population projections will be used for future growth plans and they are looking at fee structures and other charges leading to a rate study. That study will be shared with the city.

Ms. Willrett said the city also asked YBSD what type of users YBSD would like to see. Those users would be agricultural, microbrewery, distilleries. High water users would be more difficult. New technologies will be installed to improve capacity, however, they are not yet approved by the IEPA. Quarterly update meetings with the city will be held.

Alderman Koch asked how the ADM project would have been handled if they had moved into the city. Ms. Willrett said many industrial users haul their wastewater off-site and the cost of removal depends on various factors. Mr. Koch asked if a holding tank could be installed on the Aurora Textiles site. Alderman Frieders emphasized that the city needs notification in cases such as Aurora Textiles which was brought to light in a meeting last month.

Additional Business: (out of sequence)

Alderman Frieders said the road drop-off is dangerous at the curve on Cannonball by the church. He asked if a guardrail could be installed as a visual barrier. In general, cold patching will be done this year. In another matter, he asked if there will be a u-turn location on Rt. 34 east of Rt. 47 by the new Salerno's. Mr. Olson believes the current turn area will remain and Mr. Sanderson will verify.

Alderman Milschewski thanked Public Works for the blinking stop sign at Heustis and Van Emmon. A citizen had asked her if all Yorkville trucks are lettered. They are all lettered, however, some school trucks look similar. The citizen also asked which budget pays for projects being done by Public Works for the Parks & Rec and if gas costs are split. While salaries are not cross-coded, gas costs are split and other costs depend on the project.

Alderman Koch reported the street light on Hawthorne Ct. works intermittently.

Old Business:

1. ADM 2017-70 Building Conditions Survey Results

Ms. Willrett reported on the old jail and Beecher Concession Stand.

A structural study was recommended for the jail which would need extensive repairs. The repairs are TIF-eligible. Parts of the facility could not be entered due to deterioration. Staff is requesting Council direction and would like to see a potential partnership within the community. Ms. Milschewski noted there is an identical building in southern Illinois. She said the jail is part of Yorkville's history and she would like to see it preserved possibly with a fundraiser. Ms. Willrett noted that a facilities manager will soon be hired, who could study the building and possibly go out to RFP.

The Concession stand has extensive use April through October and only needs minimal maintenance totaling \$565 which staff recommends.

There was no further business and the meeting was adjourned at 7:07pm.

Minutes respectfully transcribed by
Marlys Young, Minute Taker



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #1

Tracking Number

PW 2018-21

Agenda Item Summary Memo

Title: Snow Removal Update

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Monthly update of snow removal operations

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: None, informational only

Council Action Requested: _____

Submitted by: Eric Dhuse Public Works
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
 From: Eric Dhuse, Director of Public Works
 CC: Bart Olson, Administrator
 Date: March 14, 2018
 Subject: February Snow Report

Summary

Below please find the monthly report for snow removal operations. A full recap of the entire season will be next month.

February 17, 2018

A full salt crew of 10 drivers were called in to salt a pass in each direction. The crew worked from 5:00pm-7:30pm

February 21, 2018

Snow and ice were predicted, but never really came to fruition. We did have a full crew here from 5:00am – 7:00am to salt all city streets. We only needed 3 trucks to go check all the streets, so the rest of the crew salted sidewalks and parking lots. Once that task was completed, they started their day early.

Snow Operations Salt and Brine Data								
Snow Event Date		2/17/2018	2/21/2018	only 3 trucks on 2/21				
Date of Recording		2/21/2018						
Recorder		ED						
Route	Truck ID	Total Miles Driven	Average MPH	Lbs of Salt Used	Tons of Salt Used	Lbs of Salt/Mi.	Gallons of Brine Used	Gal Brine/Ton Salt
1	9	83.20	10.10	1230	0.62	246.00	708.00	1151.22
2	27	42.50	16.60	12862	6.43	396.98	646.00	100.45
3	No Data Available. Route driven by small trucks with no recording capabilities.							
4	13	39.10	14.00	10545	5.27	400.95	337.00	63.92
5	23	38.40	15.70	6263	3.13	232.83	347.00	110.81
6	10	37.20	10.40	11212	5.61	409.20	377.00	67.25
7	28	54.40	10.20	12499	6.25	395.54	217.00	34.72
8	22	44.70	12.80	8390	4.20	392.06	0.00	0.00
9	11	87.10	6.10	13254	6.63	357.25	457.00	68.96
EVENT TOTALS		427	11.99	76255	38	348.39	3089	228.19
			Avg.			Avg.		Avg.

I would ask that this be placed on the March 20, 2018 Public Works Committee agenda for discussion.



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #2

Tracking Number

PW 2018-22

Agenda Item Summary Memo

Title: Disposal of Vehicles

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Asking permission to sell vehicles.

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Approval

Submitted by: Krysti J. Barksdale-Noble Community Development
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
From: Krysti J. Barksdale-Noble, Community Development Director
CC: Bart Olson, City Administrator
Eric Dhuse, Public Works Director
Brad Sanderson, EEI, City Engineer
Date: March 1, 2018
Subject: **Disposal of Vehicle Request**

REQUEST SUMMARY

The Community Development Department is requesting authorization to dispose of the following three (3) vehicles:

YEAR	MAKE	MODEL	MILES	V.I.N	CONDITION
2000	FORD	EXPEDITION	106,100	#1FMPU16LXYLA91620	Excessive Disrepair
2007	FORD	TAURUS	57,793	#1FAFP53U25A155061	Structural failure of the vehicle
2012	CHEVROLET	IMPALA	99,437	#2G1WD5E35C130686	Excessive Disrepair

These vehicles were primarily used by inspectors and the Code Official in the Building Safety and Zoning division of the department for site visits. All the vehicles are in various states of disrepair, inoperable or have outlived their usefulness to the department. It is staff's intention to sell the vehicles at auction in accordance with City Policy.

Should the Public Works Committee have any questions, staff will be present at Tuesday night's meeting.



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>

Agenda Item Number

New Business #3

Tracking Number

PW 2018-23

Agenda Item Summary Memo

Title: Casey's – IDOT Permit

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Consideration of Resolution for IDOT Permit

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Approval

Submitted by: Brad Sanderson
Name Department

Agenda Item Notes:

Have a question or comment about this agenda item?
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tweet us at @CityofYorkville, and/or contact any of your elected officials at http://www.yorkville.il.us/gov_officials.php



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk
Date: February 19, 2018
Subject: Casey's

The proposed development is seeking a connection to US Rt 34 as part of the site improvements. IDOT has determined that the proposed connection is acceptable and they have issued a draft permit to the developer for execution (see attached).

One of the requirements to obtain the permit is that City approve the attached resolution. We are recommending approval of the resolution.



Illinois Department of Transportation

Highway Permit

District Serial No. _____

Whereas, I (We) City of Yorkville/Casey's General Store
c/o ARC Design, 5291 Zenith Parkway
 (Name of Applicant) (Mailing Address)

Loves Park IL 61111 hereinafter termed the Applicant,
 (City) (State)
 request permission and authority to do certain work herein described on the right-of-way of the State Highway
 known as US Route 34, Section _____,
 from Station _____ to Station _____
Kendall County. The work is described in detail on the attached plan or sketch and/or as follows:

LOCATED WEST OF MCHUGH ROAD

Upon approval this permit authorizes the applicant to locate, construct, operate and maintain at the above mentioned location, removal of an existing entrance and replacement with a PCC paved right in/right out commercial entrance as shown on the attached plans which become a part hereof.

The applicant shall notify Adam Rue, Field Engineer, Phone: 630-553-7337 or the District Permit Section, Phone: 815-434-8490 twenty-four hours in advance of starting any work covered by this permit.

The state right of way shall be left in good condition. (No advertising matter shall be placed on the state right of way).

All turf areas which are disturbed during the course of this work shall be restored to the original line and grade and be promptly seeded in accordance with Standard State Specifications.

(SEE ATTACHED SPECIAL PROVISIONS)

All work authorized by this permit shall be completed 180 days after the date this permit is approved, otherwise the permit becomes null and void.

This permit is subject to the conditions and restrictions printed on the reverse side of this sheet.

This permit is hereby accepted and its provisions agreed to this 18th day of December, 2017
 Witness [Signature] Signed [Signature]
Same → 3305 SE Delaware Ave.
 Mailing Address Mailing Address
Same → Ankenny IA
 City State City State

SIGN AND RETURN TO: Regional Engineer _____

Approved this _____ day of _____, _____

Department of Transportation

BY: _____
 Regional Engineer

First: The Applicant represents and warrants that he/she is the party in interest respecting this Permit and that he/she is the agent in fact with authority to bind all parties in interest to the obligations and undertakings agreed to in this Permit. The Applicant represents and warrants that the property lines shown on the attached plan sheet(s) or sketch are true and correct, and that all proposed work is accurately depicted thereon.

Second: The proposed work shall be located and constructed to the satisfaction of the Regional Engineer or his/her duly authorized representative. No revisions or additions shall be made to the proposed work on the right-of-way without the written permission of the Regional Engineer. The Applicant agrees to complete all work to the standards and specifications identified by the Regional Engineer or his/her authorized representative as a condition of granting this Permit. The Applicant agrees to furnish all labor, equipment and material, and do all work and pay all costs associated with the work authorized by this Permit. The Applicant agrees to restore any and all damaged portions of the highway right-of-way to the condition satisfactory to the Regional Engineer or his/her authorized representative including, but not limited to, all landscape restoration. The Applicant shall not trim, cut or in any way disturb any trees or shrubbery along the highway without the approval of the Regional Engineer or his/her duly authorized representative. Any and all documents, writings and notes reflecting or identifying the standards, specifications, understandings and conditions applicable to the performance of the permitted work required by the Regional Engineer or his/her authorized representative are hereby incorporated into this Permit by reference as though fully set forth herein.

Third: The Applicant shall at all times conduct the work in such a manner as to minimize hazards to vehicular and pedestrian traffic. Traffic controls and work site protection shall be in accordance with the applicable requirements of Part 6 (Temporary Traffic Control) of the Illinois Manual on Uniform Traffic Control Devices and with the traffic control plan if one is required elsewhere in the permit. All signs, barricades, flaggers, etc., required for traffic control shall be furnished by the Applicant. The work may be done on any day except Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. Work shall be done only during daylight hours.

Fourth: The work performed by the Applicant is for the bona fide purpose expressed and not for the purpose of, nor will it result in, the parking or servicing of vehicles on the highway right-of-way. Signs located on or overhanging the right-of-way shall be prohibited.

Fifth: The Applicant shall engage in only the proposed work approved herein, and subject to the hazards incident to such activities, assumes all risks associated therewith. The Applicant assumes full and strict liability for the actions of itself, all parties in interest, its agents and employees, contractors, subcontractors and consultants. The Applicant and all parties in interest shall save, defend, hold harmless and indemnify the State of Illinois and each of its officers, agents, employees, invitees and others associated with it from and against any and all suits, claims, actions, losses, injuries, damages, judgments and expenses that are based on, or that arise or are alleged to have arisen out of the performance of the work approved herein, including, but not limited to, any act, willful or intended, or negligence of the Applicant and any party in interest, its agents and employees, contractors, subcontractors and consultants whether at law, in equity or common law. In the event the Applicant or any party in interest fails, neglects, or refuses to comply with any provision of this indemnity, the State of Illinois may take any action necessary to protect itself from liability, including any action to pay, settle, compromise and procure the discharge thereof, in which case the Applicant or any party in interest, jointly and severally, shall be liable and bound unto the State of Illinois for any and all expenses related thereto, including attorney's fees.

Sixth: The State reserves the right to make such changes, additions, repairs and relocations within its statutory limits to the facilities constructed under this permit or their appurtenances on the right-of-way as may at any time be considered necessary to permit the relocation, reconstruction, widening or maintaining of the highway and/or provide proper protection to life and property on or adjacent to the State right-of-way. However, in the event this permit is granted to construct, locate, operate and maintain utility facilities on the State right-of-way, the Applicant, upon written request by the Regional Engineer, shall perform such alterations or change of location of the facilities, without expense to the State, and should the Applicant fail to make satisfactory arrangements to comply with this request within a reasonable time, the State reserves the right to make such alterations or change of location or remove the work, and the Applicant agrees to pay for the cost incurred.

Seventh: This permit is effective only insofar as the Department has jurisdiction and does not presume to release the Applicant from compliance with the provisions of any existing statutes or local regulations relating to the construction of such work.

Eighth: The Construction of access driveways is subject to the regulations listed in the "Policy on Permits for Access Driveways to State Highways." If, in the future, the land use of property served by an access driveway described and constructed in accordance with this permit changes so as to require a higher driveway type as defined in that policy, the owner shall apply for a new permit and bear the costs for such revisions as may be required to conform to the regulations listed in the policy. Utility installations shall be subject to the "Policy on the Accommodation of Utilities on Right-of-Way of the Illinois State Highway System."

Ninth: If the work covered by this permit includes construction of additional lanes, turn lanes, median cross-overs or traffic signals on, along or adjacent to a highway under Department jurisdiction, the permittee shall use only contractor(s) approved by the Department of Transportation for the performance of said work on the State highway. A contractor currently prequalified by the Department in the work rating governing the said work shall be approved. Prior to the commencement of the said work on the State highway, the applicant shall furnish the Regional Engineer a copy of the contractor's current Certificate of Eligibility, or, if the permittee proposes to use a contractor not currently prequalified by the Department, information satisfactory to the Department evidencing the contractor's qualification and ability to perform the said work. No work on the State highway shall be performed until the Department issues an approval of the proposed contractor.

SPECIAL PROVISIONS

Whenever any of the work under this permit involves any obstruction or hazard to the free flow of traffic in the normal traffic lanes, plans for the proposed method of traffic control must be submitted to and approved by the Regional Engineer at least 72 hours, and preferably longer, before the start of work.

All traffic control shall be in accordance with the State of Illinois Manual of Uniform Traffic Control Devices and amendments thereof. It should be noted that standards and typical placement of devices shown in the Uniform Manual are minimums. Many locations may require additional or supplemental devices.

The petitioner agrees to furnish the necessary barricades, lights, and flagmen for the protection of traffic.

Traffic shall be maintained at all times.

The applicant agrees to notify the Department of Transportation upon completion of work covered under the terms and conditions of this permit so that a final inspection and acceptance can be made.

To avoid any revisions to the work completed under the highway permit, the applicant should insure the conditions and restrictions of this permit, the applicable supplemental permit specifications and permit drawing are fully understood.

If this permit work is contracted out, it will be the responsibility of the applicant to furnish the contractor with a copy of this highway permit, as the applicant will be responsible for the contractor's work.

A copy of approved permit shall be present on job site at all times the work is in progress.

The department reserves the right to reject or accept any contractor hired by the applicant.

No person, firm, corporation or institution, public or private, shall discharge or empty any type of sewage, including the effluent from septic tanks or other sewage treatment devices, or any other domestic, commercial or industrial waste, or any putrescible liquids, or cause the same to be discharged or emptied in any manner into open ditches along any public street or highway, or into any drain or drainage structure installed solely for street or highway drainage purposes.

All excavations shall be promptly backfilled, thoroughly tamped and any excess material removed from the state right of way (including rock exposed during backfilling operations). Mounding or crowning of backfill will not be permitted.

All material or equipment stored along the highway shall be placed as remote as practical from the edge of pavement in a manner to minimize its being a hazard to errant vehicles or an obstacle to highway maintenance. If material is to be stored on the highway right of way for more than two weeks prior to installation, written approval must be obtained from the department.

RESOLUTION

WHEREAS, the city of Yorkville is located in the county of Kendall, state of Illinois, wishes to allow construction of a commercial access entrance along US 34 which by law comes under the jurisdiction and control of the Department of Transportation of the state of Illinois, and

WHEREAS, a permit from said department is required before said work can be legally undertaken by said city of Yorkville; now

THEREFORE, be it resolved by the city of Yorkville, county of Kendall, state of Illinois.

FIRST: That we do hereby request from the Department of Transportation, state of Illinois, a permit authorizing the city of Yorkville to proceed with the work herein described and as shown on enclosed detailed plans.

SECOND: Upon completion of the commercial entrance by the contractor and acceptance by the city, the city guarantees that all work has been performed in accordance with the conditions of the permit to be granted by the Department of Transportation of the state of Illinois.

Further, the city will hold the state of Illinois harmless for any damages that may occur to persons or property during such work.

The city will require the contractor to obtain a bond and a comprehensive general liability insurance policy in acceptable amounts and will require the contractor to add the State of Illinois as an additional insured on both policies.

THIRD: That we hereby state that the proposed work ~~is~~, is not, (~~delete one~~) to be performed by the employees of the city of Yorkville.

FOURTH: That the proper officers of the city of Yorkville are hereby instructed and authorized to sign said permit in behalf of the city of Yorkville.

I, _____, hereby certify the above to be a
City Clerk

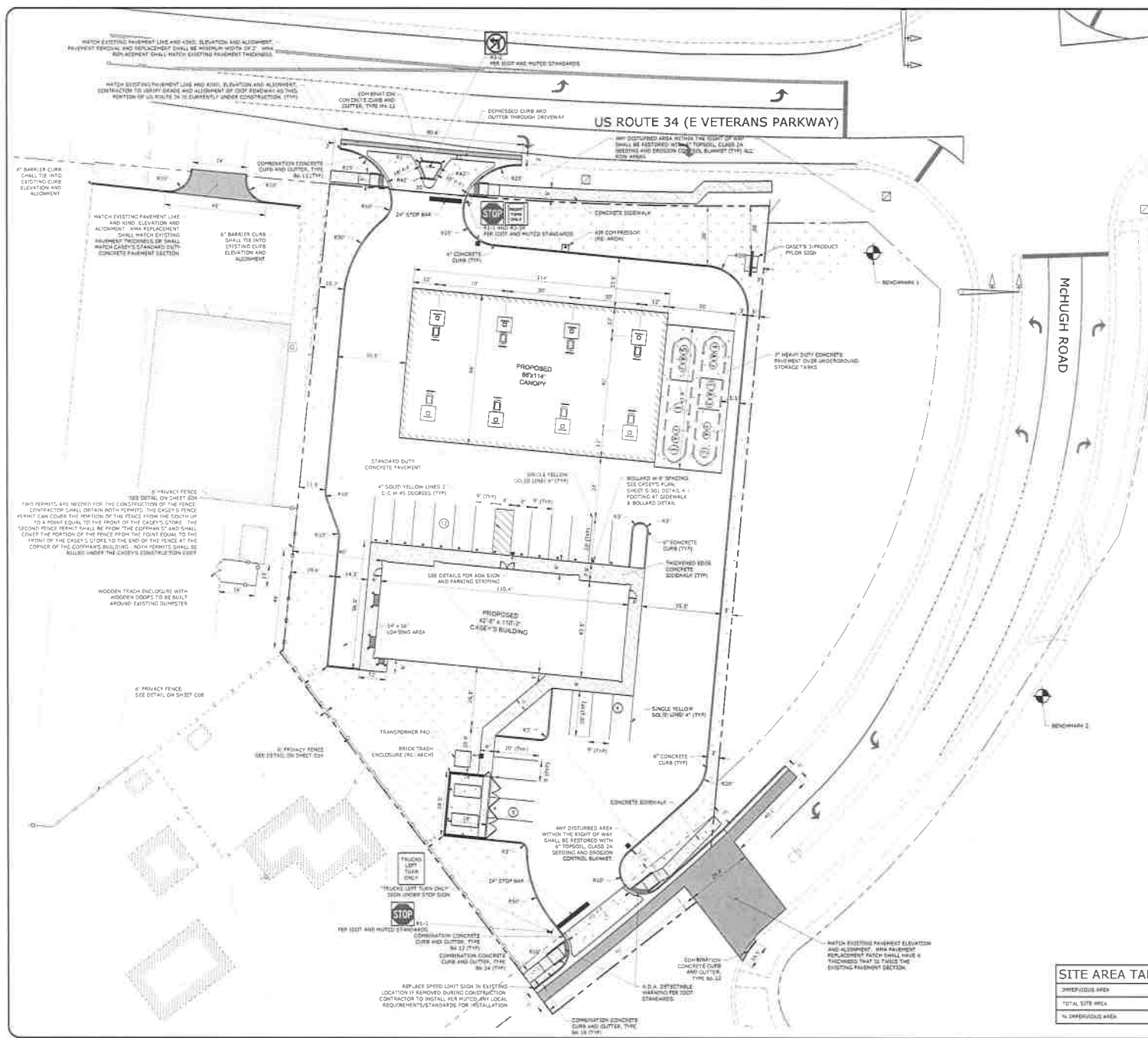
true copy of the resolution passed by the City Council of the city of Yorkville, county of Kendall, State of Illinois.

Dated this _____ day of _____ A.D. 2018

(Signature)

(CORPORATE SEAL)

RESOLUTION



LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED SIDEWALK LINE
- PROPOSED EASEMENT
- PROPOSED FENCE
- EXISTING FENCE
- SIDEWALK PAVEMENT
- CONCRETE PAVEMENT WITH INTERLOCKING
- 8" HEAVY DUTY CONCRETE DRIVEWAYS
- TRANSPLANTED AREA
- PROPOSED CONCRETE CURB
- EXISTING CONCRETE CURB AND GUTTER
- PROPOSED SITE LIGHT POLE
- BENCHMARK

LAYOUT NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BUILDING AND ALL RELATED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BUILDING AND ALL RELATED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BUILDING AND ALL RELATED WORK.
- REFER TO ARCHITECTURAL PLANS FOR EXISTING BUILDING CONSTRUCTION.
- CONSIDER THAT LOCATIONS OF THE BUILDING ARE SUBJECT TO THE REQUIREMENTS OF THE LOCAL OR STATE TRAFFIC CONTROL DEVICES, CURRENT EDITION.
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- ALL CURB AND GUTTER ARE TO BE CONSTRUCTED TO THE BACK OF CURB UNLESS NOTED OTHERWISE. REFER TO THE DETAIL SHEETS FOR CURB DETAILS.
- FOR ALL REQUIRED PAVEMENT REPAIRS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BUILDING AND ALL RELATED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE BUILDING AND ALL RELATED WORK.
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PARKING TABLE

NUMBER OF PARKING SPACES REQUIRED	14 (1 - A, 3 - B)
NUMBER OF PARKING SPACES PROVIDED	22 (11 - A, 11 - B)

BENCHMARKS

DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 Top Survey Bolt on a fire hydrant located Southwest of the intersection of US Route 34 and McHugh Road	643.52
BENCHMARK 2 Top Survey Bolt on a fire hydrant located along the East right of way McHugh Road being approximately 248' south of the intersection of US Route 34 and McHugh Road	645.22
BENCHMARK 3 Top Survey Bolt on a fire hydrant located South of the intersection of Farmstead Drive and McHugh Road	645.22

SITE AREA TABLE

CONCRETE AREA	4,000 SF (10.0 AC)
TOTAL SITE AREA	22,474 SF (0.51 AC)
% IMPERVIOUS AREA	24.4%



ARC DESIGN
RESOURCES INC.

1201 ZION PARKWAY
LOUISVILLE, KY 40211
VOICE: (502) 484-4300
FAX: (502) 484-4301
www.arcdesign.com
Design Firm License No. 184-001334

PROJECT NAME
CASEY'S BOWLING

CASEY'S YORKVILLE, IL
1107 McHugh Road
and 9230 Route 34
Yorkville, IL 60560

CASEY'S RETAIL COMPANY
ONE CONVENIENCE BLVD
ANKENY, IA 50021
RYAN STEVENS
(515) 446-6709

REVISIONS

NO.	DESCRIPTION	DATE
1	AGENCY REVIEW	05-29-2017
2	AGENCY REVIEW	07-14-2017
3	AGENCY REVIEW	08-10-2017
4	AGENCY REVIEW	08-10-2017
5	AGENCY REVIEW	10-25-2017
6	AGENCY REVIEW	10-27-2017
7	AGENCY REVIEW	11-10-2017
8	AGENCY REVIEW	12-01-2017
9	AGENCY REVIEW	01-12-2018
10		
11		
12		
13		
14		
15		
16		
17		

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		

SHEET TITLE
LAYOUT PLAN

DRAWING
CHECKED BY: PLS
DATE: 07-14-2017

PROJECT NUMBER
SHEET NUMBER

16110
C05



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input checked="" type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input checked="" type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input checked="" type="checkbox"/>

Agenda Item Number

New Business #4

Tracking Number

PW 2018-24

Agenda Item Summary Memo

Title: Fox Highlands Water Main Improvements

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: See attached memo.

Council Action Previously Taken:

Date of Action: N/A Action Taken: _____

Item Number: _____

Type of Vote Required: Supermajority

Council Action Requested: Approval

Submitted by: Bart Olson Administration
Name Department

Agenda Item Notes:



Memorandum

To: City Council
From: Bart Olson, City Administrator
CC:
Date: March 15, 2018
Subject: Fox Highlands watermain improvements

Summary

Approval of an engineering agreement with EEI for design and construction engineering related to the Fox Highlands watermain improvements (Route 71 expansion).

Background

This item was discussed at the last Public Works Committee meeting. The committee reviewed a plan from staff to save costs on Route 71-related watermain improvements but completing improvements within the Fox Highlands subdivision. The committee also reviewed and recommended for approval the Route 71 expansion agreement. Accordingly, EEI has submitted an engineering agreement for our consideration for the design and construction of the Fox Highlands related part of the project.

The attached contract contains a \$29,600 fixed cost for design engineering only. Construction engineering will be paid on an hourly basis and is estimated to cost \$32,217, plus \$4,480 in direct expenses. These amounts are included in the FY 19 budget proposal. Construction will occur based on the timing of the Route 71 expansion project, but will generally occur in mid-2018 at the start of the expansion project.

Recommendation

Staff recommends approval of the engineering agreement with EEI for design and construction engineering related to the Fox Highlands watermain improvements.

**Fox Highlands Water Main Improvements
United City of Yorkville, Kendall County, IL
Professional Services Agreement - Design and Construction Engineering**

THIS AGREEMENT, by and between the United City of Yorkville, hereinafter referred to as the "City" or "OWNER" and Engineering Enterprises, Inc. hereinafter referred to as the "Contractor" or "ENGINEER" agrees as follows:

A. Services:

ENGINEER agrees to furnish to the City the following services: The ENGINEER shall provide any and all necessary engineering services to the City as indicated on the included exhibits. Design and Construction engineering will be provided for approximately 1,000 linear feet of 8-inch water main improvements within the Fox Highlands development as generally shown in Exhibit 5. Engineering will be in accordance with all City, Standard Specifications for Water and Sewer Construction in Illinois, Illinois Department of Transportation, and Illinois Environmental Protection Agency requirements.

B. Term:

Services will be provided beginning on the date of execution of this agreement and continuing, until terminated by either party upon 7 days written notice to the non-terminating party or upon completion of the Services. Upon termination the ENGINEER shall be compensated for all work performed for the City prior to termination.

C. Compensation and maximum amounts due to ENGINEER:

ENGINEER shall receive as compensation for all work and services to be performed herein, an amount based on the Estimate of Level of Effort and Associated Cost included in Exhibit 3. Design Engineering will be paid for as a Fixed Fee (FF) in the amount of \$29,600 and Construction Engineering will be paid for Hourly (HR) at the actual rates for services to be performed, currently estimated at \$32,317. Direct expenses are estimated at \$4,480. The hourly rates for this project are shown in the attached 2017 Standard Schedule of Charges (Exhibit 6). All payments will be made according to the Illinois State Prompt Payment Act and not less than once every thirty days.

D. Changes in Rates of Compensation:

In the event that this contract is designated in Section B hereof as an Ongoing Contract, ENGINEER, on or before February 1st of any given year, shall provide written notice of any change in the rates specified in Section C hereof (or on any attachments hereto) and said changes shall only be effective on and after May 1st of that same year.

E. Ownership of Records and Documents:

ENGINEER agrees that all books and records and other recorded information developed specifically in connection with this agreement shall remain the property of the City. ENGINEER agrees to keep such information confidential and not to disclose or disseminate the information to third parties without the consent of the City. This confidentiality shall not apply to material or information, which would otherwise be subject to public disclosure through the freedom of information act or if already previously disclosed by a third party. Upon termination of this agreement, ENGINEER agrees to return all such materials to the City. The City agrees not to modify any original documents produced by ENGINEER without contractors consent. Modifications of any signed duplicate original document not authorized by ENGINEER will be at OWNER's sole risk and without legal liability to the ENGINEER. Use of any incomplete, unsigned document will, likewise, be at the OWNER's sole risk and without legal liability to the ENGINEER.

F. Governing Law:

This contract shall be governed and construed in accordance with the laws of the State of Illinois. Venue shall be in Kendall County, Illinois.

G. Independent Contractor:

ENGINEER shall have sole control over the manner and means of providing the work and services performed under this agreement. The City's relationship to the ENGINEER under this agreement shall be that of an independent contractor. ENGINEER will not be considered an employee to the City for any purpose.

H. Certifications:

Employment Status: The Contractor certifies that if any of its personnel are an employee of the State of Illinois, they have permission from their employer to perform the service.

Anti-Bribery : The Contractor certifies it is not barred under 30 Illinois Compiled Statutes 500/50-5(a) - (d) from contracting as a result of a conviction for or admission of bribery or attempted bribery of an officer or employee of the State of Illinois or any other state.

Loan Default: If the Contractor is an individual, the Contractor certifies that he/she is not in default for a period of six months or more in an amount of \$600 or more on the repayment of any educational loan guaranteed by the Illinois State Scholarship Commission made by an Illinois institution of higher education or any other loan made from public funds for the purpose of financing higher education (5 ILCS 385/3).

Felony Certification: The Contractor certifies that it is not barred pursuant to 30 Illinois Compiled Statutes 500/50-10 from conducting business with the State of Illinois or any agency as a result of being convicted of a felony.

Barred from Contracting : The Contractor certifies that it has not been barred from contracting as a result of a conviction for bid-rigging or bid rotating under 720 Illinois Compiled Statutes 5/33E or similar law of another state.

Drug Free Workplace: The Contractor certifies that it is in compliance with the Drug Free Workplace Act (30 Illinois Compiled Statutes 580) as of the effective date of this contract. The Drug Free Workplace Act requires, in part, that Contractors, with 25 or more employees certify and agree to take steps to ensure a drug free workplace by informing employees of the dangers of drug abuse, of the availability of any treatment or assistance program, of prohibited activities and of sanctions that will be imposed for violations; and that individuals with contracts certify that they will not engage in the manufacture, distribution, dispensation, possession, or use of a controlled substance in the performance of the contract.

Non-Discrimination, Certification, and Equal Employment Opportunity : The Contractor agrees to comply with applicable provisions of the Illinois Human Rights Act (775 Illinois Compiled Statutes 5), the U.S. Civil Rights Act, the Americans with Disabilities Act, Section 504 of the U.S. Rehabilitation Act and the rules applicable to each. The equal opportunity clause of Section 750.10 of the Illinois Department of Human Rights Rules is specifically incorporated herein. The Contractor shall comply with Executive Order 11246, entitled Equal Employment Opportunity, as amended by Executive Order 11375, and as supplemented by U.S. Department of Labor regulations (41 C.F.R. Chapter 60). The Contractor agrees to incorporate this clause into all subcontracts under this Contract.

International Boycott: The Contractor certifies that neither it nor any substantially owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act (30 ILCS 582).

Record Retention and Audits: If 30 Illinois Compiled Statutes 500/20-65 requires the Contractor (and any subcontractors) to maintain, for a period of 3 years after the later of the date of completion of this Contract or the date of final payment under the Contract, all books and records relating to the performance of the Contract and necessary to support amounts charged to the City under the Contract. The Contract and all books and records related to the Contract shall be available for review and audit by the City and the Illinois Auditor General. If this Contract is funded from contract/grant funds provided by the U.S. Government, the Contract, books, and records shall be available for review and audit by the Comptroller General of the U.S. and/or the Inspector General of the federal

sponsoring agency. The Contractor agrees to cooperate fully with any audit and to provide full access to all relevant materials.

United States Resident Certification: (This certification must be included in all contracts involving personal services by non-resident aliens and foreign entities in accordance with requirements imposed by the Internal Revenue Services for withholding and reporting federal income taxes.) The Contractor certifies that he/she is a: x United States Citizen Resident Alien Non-Resident Alien The Internal Revenue Service requires that taxes be withheld on payments made to non resident aliens for the performance of personal services at the rate of 30%.

Tax Payer Certification : Under penalties of perjury, the Contractor certifies that its Federal Tax Payer Identification Number or Social Security Number is (provided separately) and is doing business as a (check one): Individual Real Estate Agent Sole Proprietorship Government Entity Partnership Tax Exempt Organization (IRC 501(a) only) x Corporation Not for Profit Corporation Trust or Estate Medical and Health Care Services Provider Corp.

I. Indemnification:

ENGINEER shall indemnify and hold harmless the City and City's agents, servants, and employees against all loss, damage, and expense which it may sustain or for which it will become liable on account of injury to or death of persons, or on account of damage to or destruction of property resulting from the performance of work under this agreement by ENGINEER or its Subcontractors, or due to or arising in any manner from the wrongful act or negligence of ENGINEER or its Subcontractors of any employee of any of them. In the event that the either party shall bring any suit, cause of action or counterclaim against the other party, the non-prevailing party shall pay to the prevailing party the cost and expenses incurred to answer and/or defend such action, including reasonable attorney fees and court costs. In no event shall the either party indemnify any other party for the consequences of that party's negligence, including failure to follow the ENGINEER's recommendations.

J. Insurance :

The ENGINEER agrees that it has either attached a copy of all required insurance certificates or that said insurance is not required due to the nature and extent of the types of services rendered hereunder. (Not applicable as having been previously supplied)

K. Additional Terms or Modification:

The terms of this agreement shall be further modified as provided on the attachments. Except for those terms included on the attachments, no additional terms are included as a part of this agreement. All prior understandings and agreements between the parties are merged into this agreement, and this agreement may not be modified orally or in any

*Fox Highlands Water Main Improvements
United City of Yorkville
Professional Services Agreement
Design and Construction Engineering*

manner other than by an agreement in writing signed by both parties. In the event that any provisions of this agreement shall be held to be invalid or unenforceable, the remaining provisions shall be valid and binding on the parties. The list of exhibits is as follows:

- Exhibit 1:** Professional Engineering Services
- Exhibit 2:** Limitation of Authority, Duties and Responsibilities of the Resident Construction Observer
- Exhibit 3:** Estimate of Level of Effort and Associated Cost
- Exhibit 4:** Anticipated Project Schedule
- Exhibit 5:** Location Map
- Exhibit 6:** 2017 Standard Schedule of Charges

L. Notices:

All notices required to be given under the terms of this agreement shall be given mail, addressed to the parties as follows:

For the City:

City Administrator and City Clerk
United City of Yorkville
800 Game Farm Road
Yorkville, IL 60560

For the ENGINEER:

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove Illinois 60554

Either of the parties may designate in writing from time to time substitute addresses or persons in connection with required notices.

Agreed to this ____ day of _____, 2018.

United City of Yorkville:

Engineering Enterprises, Inc.:

Gary Golinski
Mayor

Brad Sanderson, P.E.
Vice President

Beth Warren
City Clerk

Angie Smith
Executive Assistant

EXHIBIT 1

SECTION A - PROFESSIONAL DESIGN ENGINEERING SERVICES

For purposes of this Exhibit 1 and all attachments hereto, the term “contractor” shall not refer to Engineering Enterprises, Inc., but shall instead refer to individuals or companies contracted with, to construct or otherwise manage the project described herein. The ENGINEER shall furnish professional design engineering services as follows:

1. The ENGINEER will attend conferences with the OWNER, or other interested parties as may be reasonably necessary.
2. The ENGINEER will perform the necessary design surveys, accomplish the detailed design of the project, prepare construction drawings, specifications and contract documents, and prepare a final cost estimate based on final design for the entire system. It is also understood that if subsurface explorations (such as borings, soil tests, rock soundings and the like) are required, the ENGINEER will furnish coordination of said explorations without additional charge, but the costs incident to such explorations shall be paid for by the OWNER as set out in Section D hereof.
3. The contract documents furnished by the ENGINEER under Section A-2 shall utilize IEPA endorsed construction contract documents, including Supplemental General Conditions, Contract Change Orders, and partial payment estimates.
4. Prior to the advertisement for bids, the ENGINEER will provide for each construction contract, not to exceed 10 copies of detailed drawings, specifications, and contract documents for use by the OWNER, appropriate Federal, State, and local agencies from whom approval of the project must be obtained. The cost of such drawings, specifications, and contract documents shall be included in the basic compensation paid to the ENGINEER.
5. The ENGINEER will furnish additional copies of the drawings, specifications and contract documents as required by prospective bidders, material suppliers, and other interested parties, but may charge them for the reasonable cost of such copies. Upon award of each contract, the

ENGINEER will furnish to the OWNER five sets of the drawings, specifications and contract documents for execution. The cost of these sets shall be included in the basic compensation paid to the ENGINEER. Original documents, survey notes, tracings, and the like, except those furnished to the ENGINEER by the OWNER, are and shall remain the property of the ENGINEER.

6. The drawings prepared by the ENGINEER under the provisions of Section A-2 above shall be in sufficient detail to permit the actual location of the proposed improvements on the ground. The ENGINEER shall prepare and furnish to the OWNER without any additional compensation, three copies of map(s) showing the general location of needed construction easements and permanent easements and the land to be acquired. Property surveys, property plats, property descriptions, abstracting and negotiations for land rights shall be accomplished by the OWNER, unless the OWNER requests, and the ENGINEER agrees to provide those services. In the event the ENGINEER is requested to provide such services, the ENGINEER shall be additionally compensated as set out in Section D hereof.
7. The ENGINEER will attend the bid opening and tabulate the bid proposal, make an analysis of the bids, and make recommendations for awarding contracts for construction.
8. The ENGINEER further agrees to obtain and maintain, at the ENGINEER's expense, such insurance as will protect the ENGINEER from claims under the Workman's Compensation Act and such comprehensive general liability insurance as will protect the OWNER and the ENGINEER from all claims for bodily injury, death, or property damage which may arise from the performance by the ENGINEER or by the ENGINEER's employees of the ENGINEER's functions and services required under this Agreement.
9. The ENGINEER will complete the final plans, specifications and contract documents and submit for approval of the OWNER, and all State regulatory agencies to meet the project schedule(s) as summarized in Exhibit 4: "Anticipated Project Schedule – Fox Highlands Water Main Improvements" dated February 28, 2018.

SECTION B - PROFESSIONAL CONSTRUCTION ENGINEERING SERVICES

The ENGINEER shall furnish professional construction engineering services as follows:

1. The ENGINEER will review, for conformance with the design concept, shop and working drawings required by the construction Contract Documents and indicate on the drawings the action taken. Such action shall be taken with reasonable promptness.
2. The ENGINEER will interpret the intent of the drawings and specifications to protect the OWNER against defects and deficiencies in construction on the part of the contractors. The ENGINEER will not, however, guarantee the performance by any contractor.
3. The ENGINEER will evaluate and determine acceptability of substitute materials and equipment proposed by Contractor(s).
4. The ENGINEER will establish baselines for locating the work together with a suitable number of bench marks adjacent to the work as shown in the contract documents.
5. The ENGINEER will provide general engineering review of the work of the contractor(s) as construction progresses to ascertain that the contractor is conforming to the design concept.
 - (a) ENGINEER shall have authority, as the OWNER's representative, to require special inspection of or testing of the work, and shall receive and review all certificates of inspections, testing and approvals required by laws, rules, regulations, ordinances, codes, orders or the Contract Documents (but only to determine generally that their content complies with requirements of, and the results certified indicate compliance with, the Contract Documents).
 - (b) During such engineering review, ENGINEER shall have the authority, as the OWNER's representative, to disapprove of or reject contractor(s)' work while it is in progress if ENGINEER believes that such work will not produce a completed Project that conforms generally to the Contract Documents or that it will prejudice the integrity of the design concept of the Project as reflected in the Contract Documents.

6. The ENGINEER will provide resident construction observation. Resident construction observation shall consist of visual inspection of materials, equipment, or construction work for the purpose of ascertaining that the work is in substantial conformance with the contract documents and with the design intent. Such observation shall not be relied upon by others as acceptance of the work. The ENGINEER's undertaking hereunder shall not relieve the contractor of contractor's obligation to perform the work in conformity with the drawings and specifications and in a workmanlike manner; shall not make the ENGINEER an insurer of the contractor's performance; and shall not impose upon the ENGINEER any obligation to see that the work is performed in a safe manner. Exhibit 2 - The Limitations of Authority, Duties and Responsibilities of the Resident Construction Observer is attached to this Agreement.
7. The ENGINEER will cooperate and work closely with representatives of the OWNER.
8. Based on the ENGINEER's on-site observations as an experienced and qualified design professional, on information provided by the Resident Construction Observer, and upon review of applications for payment with the accompanying data and schedules by the contractor, the ENGINEER:
 - (a) Shall determine the amounts owing to contractor(s) and recommend in writing payments to contractor(s) in such amounts. Such recommendations of payment will constitute a representation to OWNER, based on such observations and review, that the work has progressed to the point indicated, and that, to the best of the ENGINEER's knowledge, information and belief, the quality of such work is generally in accordance with the Contract Documents (subject to an evaluation of such work as a functioning whole prior to or upon substantial completion, to the results of any subsequent tests called for in the Contract Documents, and to any other qualifications stated in the recommendation).
 - (b) By recommending any payment, ENGINEER will not hereby be deemed to have represented that exhaustive, continuous or detailed reviews or examinations have been made by ENGINEER to check the quality or quantity of contractor(s)' work as it is furnished and performed beyond the responsibilities specifically assigned to ENGINEER in the Agreement and the Contract Documents. ENGINEER's review of contractor(s)'

work for the purposes of recommending payments will not impose on Engineer responsibility to supervise, direct or control such work or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto or contractor(s) compliance with laws, rules, regulations, ordinances, codes or orders applicable to their furnishing and performing the work. It will also not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes any contractor has used the moneys paid on account of the Contract Price, or to determine that title to any of the work, materials equipment has passed to OWNER free and clear of any lien, claims, security interests, or encumbrances, or that there may not be other matters at issue between OWNER and contractor that might affect the amount that should be paid.

9. The ENGINEER will prepare necessary contract change orders for approval of the OWNER, and others on a timely basis.
10. The ENGINEER will make a final review prior to the issuance of the statement of substantial completion of all construction and submit a written report to the OWNER. Prior to submitting the final pay estimate, the ENGINEER shall submit the statement of completion to and obtain the written acceptance of the facility from the OWNER.
11. The ENGINEER will provide the OWNER with one set of reproducible record (as-built) drawings, and two sets of prints at no additional cost to the OWNER. Such drawings will be based upon construction records provided by the contractor during construction and reviewed by the resident construction observer and from the resident construction observer's construction data.
12. If State Statutes require notices and advertisements of final payment, the ENGINEER shall assist in their preparation.
13. The ENGINEER will be available to furnish engineering services and consultations necessary to correct unforeseen project operation difficulties for a period of one year after the date of statement of substantial completion of the facility. This service will include instruction of the OWNER in initial project operation and maintenance but will not include supervision of normal

operation of the system. Such consultation and advice shall be at the hourly rates as described in the attached Exhibit 6: Standard Schedule of Charges dated January 1, 2017. The ENGINEER will assist the OWNER in performing a review of the project during the 11th month after the date of the certificate of substantial completion.

14. The ENGINEER further agrees to obtain and maintain, at the ENGINEER's expense, such insurance as will protect the ENGINEER from claims under the Workman's Compensation Act and such comprehensive general liability insurance as will protect the OWNER and the ENGINEER from all claims for bodily injury, death, or property damage which may arise from the performance by the ENGINEER or by the ENGINEER's employees of the ENGINEER's functions and services required under this Agreement.
15. The ENGINEER will provide construction engineering services in accordance with the periods summarized in Exhibit 4: "Anticipated Project Schedule - Fox Highlands Water Main Improvements" dated February 28, 2018.

If the above is not accomplished within the time period specified, this Agreement may be terminated by the OWNER. The time for completion may be extended by the OWNER for a reasonable time if completion is delayed due to unforeseeable cases beyond the control and without the fault or negligence of the ENGINEER. Pursuant to Paragraph D "Changes in Rates of Compensation", the contract shall be designated on-going consistent with the project schedule.

SECTION C – COMPENSATION FOR ENGINEERING SERVICES

1. The OWNER shall compensate the ENGINEER for professional design engineering services in the amount of \$29,600 (FF) Fixed Fee as summarized on Exhibit 3: “Estimate of Level of Effort and Associated Cost for Professional Engineering Services for Fox Highlands Water Main Improvements” dated February 28, 2018.
 - (a) The compensation for the professional design engineering services shall be payable as follows:
 - (1) A sum which does not exceed ninety percent (90%) of the total compensation payable under Section C-1 shall be paid in monthly increments for work actually completed and invoiced, for grant administration and for the preparation and submission to the OWNER and/or IEPA of the construction drawings, specifications, cost estimates and contract documents.
 - (2) A sum which, together with the compensation paid pursuant to Section C-1(a)(1) above, equals one hundred percent (100%) of the total compensation due and payable in accord with Section C-1 above, shall be due immediately after the award of construction contract(s) is approved by the corporate authorities.
2. The OWNER shall compensate the ENGINEER for the construction administration, construction staking, construction observation (including the Resident Construction Observer), and any additional consultation and surveying services on the basis of Hourly Rates (HR) as described on the attached Exhibit 6: Standard Schedule of Charges dated January 1, 2017. The estimated values are included in Exhibit 3: “Estimate of Level of Effort and Associated Cost for Professional Engineering Services for Fox Highlands Water Main Improvements” dated February 28, 2018 and are estimated at \$32,317 Hourly (HR).
 - (a) The compensation for the construction administration, construction staking, construction observation (including the Resident Construction Observer), and any additional consultation and surveying services shall be payable as follows:

- (1) A sum which equals any charges for work actually completed and invoiced shall be paid at least once per month.
- 3. The OWNER shall compensate the ENGINEER for direct expenses as identified in the contract and as noted on Exhibit 3 at the actual cost or hourly cost for the work completed.
 - (1) A sum which equals any charges for work actually completed and invoiced shall be paid at least once per month.
- 4. The compensation for any additional engineering services authorized by the OWNER pursuant to Section D shall be payable as follows:
 - (a) A sum which equals any charges for work actually completed and invoiced shall be paid at least once per month.

SECTION D – ADDITIONAL ENGINEERING SERVICES

In addition to the foregoing being performed, the following services may be provided UPON PRIOR WRITTEN AUTHORIZATION OF THE OWNER.

1. Site surveys outside of the project limits and other similar special surveys as may be required.
2. Laboratory tests, well tests, borings, specialized geological soils hydraulic, or other studies recommended by the ENGINEER.
3. Property surveys, detailed description of sites, maps, drawings, or estimates related thereto; assistance in negotiating for land and easement rights.
4. Necessary data and filing maps for litigation, such as condemnation.
5. Redesigns ordered by the OWNER after final plans have been accepted by the OWNER and IEPA.
6. Appearances before courts or boards on matters of litigation or hearings related to the project.
7. Preparation of environmental impact assessments or environmental impact statements.
8. Making drawings from field measurements of existing facilities when required for planning additions or alterations thereto.
9. Services due to changes in the scope of the Project or its design, including but not limited to, changes in size, complexity, schedule or character of construction.
10. Revising studies or reports which have previously been approved by the OWNER, or when revisions are due to cases beyond the control of the ENGINEER.

11. Preparation of design documents for alternate bids where major changes require additional documents.
12. Preparation of detailed renderings, exhibits or scale models for the Project.
13. Providing special analysis of the OWNER's needs such as owning and operating analysis, plan for operation and maintenance, OWNER's special operating drawings or charts, and any other similar analysis.
14. The preparation of feasibility studies, appraisals and evaluations, detailed quantity surveys of material and labor, and material audits or inventories by the OWNER.
15. Additional or extended services during construction made necessary by (1) work damaged by fire or other cause during construction, (2) defective or incomplete work of the contractor, and/or (3) the contractor's default on the Construction Contract due to delinquency or insolvency.
16. Providing design services relating to future facilities, systems and equipment which are not intended to be constructed or operated as a part of the Project.
17. Providing other services not otherwise provided for in this Agreement, including services normally furnished by the OWNER as described in Section E – SPECIAL PROVISIONS – Owner's Responsibilities.

Payment for the services specified in this Section E shall be as agreed in writing between the OWNER and the ENGINEER prior to commencement of the work. The ENGINEER will render to OWNER for such services an itemized bill, separate from any other billing, once each month, for compensation for services performed hereunder during such period, the same to be due and payable by OWNER to the ENGINEER on or before the 10th day of the following period. Payment for services noted in D shall be at Actual Cost (AC), Fixed Fee (FF) or Hourly (HR).

SECTION E - SPECIAL PROVISIONS

1. OWNER'S RESPONSIBILITIES

- (a) Provide to the ENGINEER all criteria, design and construction standards and full information as to the OWNER's requirements for the Project.
- (b) Designate a person authorized to act as the OWNER's representative. The OWNER or his representative shall receive and examine documents submitted by the ENGINEER, interpret and define the OWNER's policies and render decisions and authorizations in writing promptly to prevent unreasonable delay in the progress of the ENGINEER's services.
- (c) Furnish laboratory tests, air and water pollution tests, reports and inspections of samples, materials or other items required by law or by governmental authorities having jurisdiction over this Project, or as recommended by the ENGINEER.
- (d) Provide legal, accounting, right-of-way acquisition and insurance counseling services necessary for the Project, legal review of the construction Contract Documents, and such auditing services as the OWNER may require to account for expenditures of sums paid to the contractor.
- (e) Furnish above services at the OWNER's expense and in such manner that the ENGINEER may rely upon them in the performance of his services under this Agreement and in accordance with the Project timetable.
- (f) Guarantee full and free access for the ENGINEER to enter upon all property required for the performance of the ENGINEER's services under this Agreement.
- (g) Give prompt written notice to the ENGINEER whenever the OWNER observes or otherwise becomes aware of any defect in the Project or other event which may substantially affect the ENGINEER's performance of services under this Agreement.

- (h) Protect and preserve all survey stakes and markers placed at the project site prior to the assumption of this responsibility by the contractor and bear all costs of replacing stakes or markers damaged or removed during said time interval.
- 2. Delegation of Duties - Neither the OWNER nor the ENGINEER shall delegate his duties under this Agreement without the written consent of the other.
- 3. The ENGINEER has not been retained or compensated to provide design services relating to the contractor's safety precautions or to means, methods, techniques, sequences, or procedures required by the contractor to perform his work but not relating to the final or completed structure. Omitted services include but are not limited to shoring, scaffolding, underpinning, temporary retainment of excavations and any erection methods and temporary bracing.
- 4. The ENGINEER intends to render his services under this Agreement in accordance with generally accepted professional practices for the intended use of the Project.
- 5. Since the ENGINEER has no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor(s) methods of determining prices, or over competitive bidding or market conditions, his opinions of probable Project Costs and Construction Costs provided for herein are to be made on the basis of his experience and qualifications and represent his best judgment as an experienced and qualified professional engineer, familiar with the construction industry. The ENGINEER cannot and does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost prepared by him. If prior to the bidding or negotiating phase OWNER wishes greater assurance as to project or construction costs he shall employ an independent cost-estimator.
- 6. Access to Records:
 - (a) The ENGINEER agrees to include subsections E-6(b) through E-6(e) below in all contracts and all subcontracts directly related to project services which are in excess of \$25,000.

- (b) The ENGINEER shall maintain books, records, documents and other evidence directly pertinent to performance of Agency loan work under this Agreement consistent with generally accepted accounting standards in accordance with the American Institute of Certified Public Accountants Professional Standards (666 Fifth Avenue, New York, New York 10019; June 1, 1987). The Agency or any of its duly authorized representatives shall have access to such books, records, documents and other evidence for the purpose of inspection, audit and copying. The ENGINEER will provide facilities for such access and inspection.
- (c) Audits conducted pursuant to this provision shall be in accordance with generally accepted auditing standards.
- (d) The ENGINEER agrees to the disclosure of all information and reports resulting from access to records pursuant to subsection E-6(b) above, to the Agency. Where the audit concerns the ENGINEER, the auditing agency shall afford the ENGINEER an opportunity for an audit exit conference and an opportunity to comment on the pertinent portions of the draft audit report. The final audit report will include the written comments, if any, of the audited parties.
- (e) Records under subsection E-6(b) above shall be maintained and made available during performance on Agency loan work under this agreement and until three years from date of final Agency loan audit for the project. In addition, those records which relate to any “dispute” appeal under an Agency loan agreement, or litigation, or the settlement of claims arising out of such performance, costs or items to which an audit exception has been taken, shall be maintained and made available until three years after the date of resolution of such appeal, litigation, claim or exception.

7. **Covenant Against Contingent Fees** - The ENGINEER warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bonafide employees. For breach or violation of this warranty, the loan recipient shall have the right to annul this agreement without liability or in its discretion to deduct from the contract price or

consideration or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

8. Covenant Against Contingent Fees - The loan recipient warrants that no person or agency has been employed or retained to solicit or secure a PWSLP loan upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee. For breach or violation of this warranty, the Agency shall have the right to annul the loan or to deduct from the loan or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.
9. Certification Regarding Debarment – The ENGINEER certifies that the services of anyone that has been debarred or suspended under Federal Executive Order 12549 has not, and will not, be used for work under this Agreement.
10. Affirmative Action – The ENGINEER agrees to take affirmative steps to assure that disadvantaged business enterprises are utilized when possible as sources of supplies, equipment, construction and services in accordance with the Clean Water Loan Program rules. As required by the award conditions of USEPA's Assistance Agreement with IEPA, the ENGINEER acknowledges that the fair share percentages are 5% for MBEs and 12% for WBEs.
11. The ENGINEER shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. The contractor shall carry out applicable requirements of 40 CFR Part 33 in the award and administration of contracts awarded under EPA financial assistance agreements. Failure by the contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies.

EXHIBIT 2

THE LIMITATIONS OF AUTHORITY, DUTIES AND RESPONSIBILITIES OF THE RESIDENT CONSTRUCTION OBSERVER ARE AS FOLLOWS:

1. The Resident Construction Observer shall act under the direct supervision of the ENGINEER, shall be the ENGINEER's agent in all matters relating to on-site construction review of the contractor's work, shall communicate only with the ENGINEER and the contractor (or contractor's), and shall communicate with subcontractors only through the contractor or his authorized superintendent. The OWNER shall communicate with the Resident Construction Observer only through the ENGINEER.
2. The Resident Construction Observer shall review and inspect on-site construction activities of the contractor relating to portions of the Project designed and specified by the Engineer as contained in the Construction Contract Documents.
3. Specifically omitted from the Resident Construction Observer's duties is any review of the contractor's safety precautions, or the means, methods, sequences, or procedures required for the contractor to perform the work but not relating to the final or completed Project. Omitted design or review services include but are not limited to shoring, scaffolding, underpinning, temporary retainment of excavations and any erection methods and temporary bracing.
4. The specific duties and responsibilities of the Resident Construction Observer are enumerated as follows:
 - (a) Schedules: Review the progress schedule, schedule of Shop Drawing submissions and schedule of values prepared by contractor and consult with ENGINEER concerning their acceptability.
 - (b) Conferences: Attend preconstruction conferences. Arrange a schedule of progress meetings and other job conferences as required in consultation with ENGINEER and notify those expected to attend in advance. Attend meetings and maintain and circulate copies of minutes thereof.

(c) Liaison:

- (1) Serve as ENGINEER's liaison with contractor, working principally through contractor's superintendent and assist him in understanding the intent of the Contract Documents.
- (2) Assist ENGINEER in serving as OWNER's liaison with contractor when contractor's operations affect OWNER's on-site operations.
- (3) As requested by ENGINEER, assist in obtaining from OWNER additional details or information, when required at the job site for proper erection of the work.

(d) Shop Drawings and Samples:

- (2) Receive and record date of receipt of Shop Drawings and samples.
- (3) Receive samples which are furnished at the site by contractor, and notify ENGINEER of their availability for examination.
- (3) Advise ENGINEER and contractor or its superintendent immediately of the commencement of any work requiring a Shop Drawing or sample submission if the submission has not been approved by ENGINEER.

(e) Review of Work, Rejection of Defective Work, Inspections and Tests:

- (1) Conduct on-site inspection of the work in progress to assist ENGINEER in determining if the work is proceeding in accordance with the Contract Documents and that completed work will conform to the Contract Documents.
- (2) Report to ENGINEER whenever he believes that any work is unsatisfactory, faulty or defective or does not conform to the Contract Documents, or does not meet the requirements of any inspections, test or approval required to be made or

has been damaged prior to final payment; and advise ENGINEER when he believes work should be corrected or rejected or should be uncovered for inspection, or requires special testing, inspection or approval.

- (3) Verify that tests, equipment and systems start-ups, and operating and maintenance instructions are conducted as required by the Contract Documents and in presence of the required personnel, and that contractor maintains adequate records thereof; observe, record and report to ENGINEER appropriate details relative to the test procedures and start-ups.
 - (4) Accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, record the outcome of these inspections and report to ENGINEER.
- (f) Interpretation of Contract Documents: Transmit to contractor ENGINEER's clarifications and interpretations of the Contract Documents.
- (g) Modifications: Consider and evaluate contractor's suggestions for modifications in Drawings or Specifications and report them with recommendations to ENGINEER.
- (h) Records:
- (1) Maintain at the job site orderly files for correspondence, reports of job conferences, Shop Drawings and samples submissions, reproductions of original Contract Documents including all addenda, change orders, field orders, additional drawings issued subsequent to the execution of the Contract, ENGINEER's clarifications and interpretations of the Contract Documents, progress reports, and other Project related documents.
 - (2) Keep a diary or log book, recording hours on the job site, weather conditions, data relative to questions of extras or deductions, list of visiting officials and representatives of manufacturers, fabricators, suppliers and distributors, daily

activities, decisions, observations in general and specific observations in more detail as in the case of observing test procedures. Send copies to ENGINEER.

- (4) Record names, addresses and telephone numbers of all contractor's, subcontractors and major suppliers of materials and equipment.
- (i) Reports:
- (1) Furnish ENGINEER periodic reports as required of progress of the work and contractor's compliance with the approved progress schedule and schedule of Shop Drawing submissions.
 - (2) Consult with ENGINEER in advance of schedule major tests, inspections or start of important phases of the work.
 - (3) Report immediately to ENGINEER upon the occurrence of any accident.
- (j) Payment Requisitions: Review applications for payment with contractor for compliance with the established procedure for their submission and forward them with recommendations to ENGINEER, noting particularly their relation to the schedule of values, work completed and materials and equipment delivered at the site but not incorporated in the work.
- (k) Certificates, Maintenance and Operating Manuals: During the course of the work, verify that certificates, maintenance and operation manuals and other data required to be assembled and furnished by contractor are applicable to the items actually installed; and deliver this material to ENGINEER for his review and forwarding to OWNER prior to final acceptance of the work.
- (l) Completion:
- (1) Before ENGINEER issues a Statement of Substantial Completion, submit to contractor a list of observed items requiring completion or correction.

- (2) Conduct final review in the company of ENGINEER, OWNER and contractor and prepare a final list of items to be completed or corrected.
- (3) Verify that all items on final list have been completed or corrected and make recommendations to ENGINEER concerning acceptance.



EXHIBIT 3
ESTIMATE OF LEVEL OF EFFORT AND ASSOCIATED COST FOR
PROFESSIONAL ENGINEERING SERVICES FOR
FOX HIGHLANDS WATER MAIN IMPROVEMENTS
 United City of Yorkville, IL
 February 28, 2018

WORK ITEM NO.	WORK ITEM	ENTITY:	ENGINEERING				SURVEYING			DRAFTING		ADMIN.	WORK ITEM HOUR SUMM.	COST PER ITEM	
		PROJECT ROLE:	PRINCIPAL IN CHARGE	SENIOR PROJECT MANAGER	SENIOR PROJECT ENGINEER I	PROJECT ENGINEER	PROJECT MANAGER	SENIOR PROJECT SURVEYOR II	PROJECT TECHNICIAN	CAD MANAGER	SENIOR PROJECT TECHNICIAN I	ADMIN.			
		HOURLY RATE:	\$191	\$185	\$155	\$133	\$168	\$155	\$145	\$145	\$133	\$80			
FINAL ENGINEERING															
2.1	Project Management and Administration		2	12	-	-	-	-	-	-	-	-	14	\$ 2,602	
2.2	Project Meetings		3	4	6	-	-	-	-	-	-	-	13	\$ 2,243	
2.3	Topographic Survey		-	-	-	-	-	-	-	-	-	-	-	\$ -	
2.4	Utility Coordination		-	6	6	-	-	-	-	-	-	-	12	\$ 2,040	
2.5	Final Plans, Specifications and Estimates		4	16	24	30	-	-	-	15	35	-	124	\$ 18,264	
2.6	Permitting		-	2	6	-	-	-	-	-	-	-	8	\$ 1,300	
2.7	Bidding and Contracting		-	4	12	-	-	-	-	-	-	6	22	\$ 3,080	
Final Engineering Subtotal:			9	44	54	30	-	-	-	15	35	6	193	\$ 29,529	
CONSTRUCTION ENGINEERING															
3.1	Contract Administration		11	22	19	2	-	-	-	-	-	-	54	\$ 9,382	
3.2	Construction Layout and Record Drawings		-	-	2	2	1	6	18	-	-	-	29	\$ 4,284	
3.3	Observation and Documentation		-	3	114	2	-	-	-	-	-	2	121	\$ 18,651	
Construction Engineering Subtotal:			11	25	135	6	1	6	18	-	-	2	204	\$ 32,317	
PROJECT TOTAL:			20	69	189	36	1	6	18	15	35	8	397	61,846	

DIRECT EXPENSES	
Printing =	\$ 100
Mileage =	\$ 780
Material Testing =	\$ 2,500
Comed Permitting =	\$ 1,500
DIRECT EXPENSES =	\$ 4,880

LABOR SUMMARY	
Engineering Expenses =	\$ 50,668
Surveying Expenses =	\$ 3,708
Drafting Expenses =	\$ 6,830
Administrative Expenses =	\$ 640
TOTAL LABOR EXPENSES =	\$ 61,846

TOTAL EXPENSES =	\$ 66,726
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\\Mikway\EEI_Storage\Docs\Public\Yorkville\2018\VO1810-P Fox Highlands Water Main Improvements\Fox Highlands PSA\03_ Exhibit 3 - Level of Effort.xlsx\Fee Summary

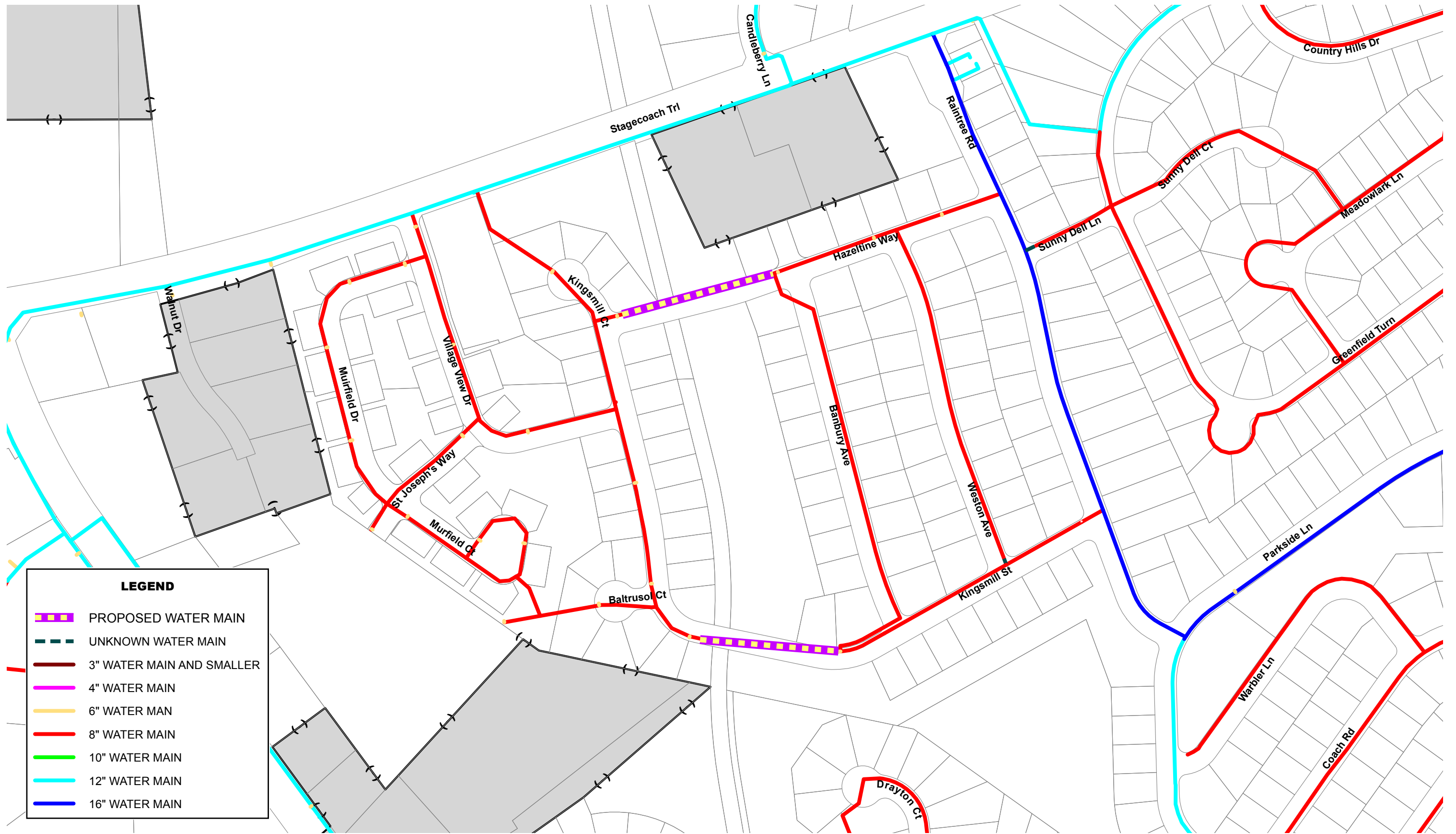


EXHIBIT 4
ANTICIPATED PROJECT SCHEDULE
 FOX HIGHLANDS WATER MAIN IMPROVEMENTS
 UNITED CITY OF YORKVILLE, IL
 February 28, 2018

WORK ITEM NO.	WORK ITEM	Year:	2018																																															
		Month:	January				February				March				April				May				June				July				August				September				October				November							
		Week Starting:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
FINAL DESIGN ENGINEERING																																																		
2.1	Project Management and Administration																																																	
2.2	Project Meetings																																																	
2.3	Topographic Survey																																																	
2.4	Utility Coordination																																																	
2.5	Final Plans, Specifications and Estimates																																																	
2.6	Permitting																																																	
2.7	Bidding and Contracting																																																	
CONSTRUCTION ENGINEERING																																																		
3.1	Contract Administration																																																	
3.2	Construction Layout and Record Drawings																																																	
3.3	Observation and Documentation																																																	

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Legend	
	Project Management & QC/QA
	Meeting(s)
	Design
	Permitting
	Bidding and Contracting
	Construction



LEGEND

- PROPOSED WATER MAIN
- UNKNOWN WATER MAIN
- 3" WATER MAIN AND SMALLER
- 4" WATER MAIN
- 6" WATER MAIN
- 8" WATER MAIN
- 10" WATER MAIN
- 12" WATER MAIN
- 16" WATER MAIN



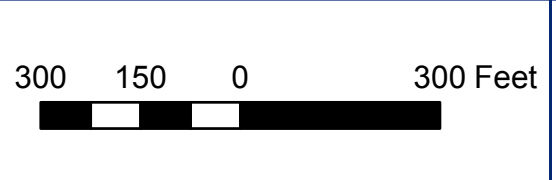
Engineering Enterprises, Inc.
 52 Wheeler Road
 Sugar Grove, Illinois 60554
 (630) 466-6700
www.eeiweb.com




United City of Yorkville
 800 Game Farm Road
 Yorkville, IL 60560
 630-553-4350
www.yorkville.il.us

NO.		DATE	REVISIONS

DATE:	February 2018
PROJECT NO.:	YO1810
BY:	MJT
PATH:	H:\GIS\PUBLIC\YORKVILLE\2018\
FILE:	YO1847 - Exhibit 5.MXD



**Exhibit 5
Location Map**





Standard Schedule of Charges

January 1, 2017

EMPLOYEE DESIGNATION	CLASSIFICATION	HOURLY RATE
Senior Principal	E-4	\$196.00
Principal	E-3	\$191.00
Senior Project Manager	E-2	\$185.00
Project Manager	E-1	\$168.00
Senior Project Engineer/Planner/Surveyor II	P-6	\$155.00
Senior Project Engineer/Planner/Surveyor I	P-5	\$145.00
Project Engineer/Planner/Surveyor	P-4	\$133.00
Senior Engineer/Planner/Surveyor	P-3	\$121.00
Engineer/Planner/Surveyor	P-2	\$111.00
Associate Engineer/Planner/Surveyor	P-1	\$100.00
Senior Project Technician II	T-6	\$145.00
Senior Project Technician I	T-5	\$133.00
Project Technician	T-4	\$121.00
Senior Technician	T-3	\$111.00
Technician	T-2	\$100.00
Associate Technician	T-1	\$ 87.00
Engineering/Land Surveying Intern	I-1	\$ 82.00
GIS Technician	G-1	\$ 67.00
Administrative Assistant	A-3	\$ 80.00

CREW RATES, VEHICLES AND REPROGRAPHICS

1 Man Field Crew with Standard Survey Equipment	\$158.00
2 Man Field Crew with Standard Survey Equipment	\$247.00
1 Man Field Crew with RTS or GPS *	\$196.00
2 Man Field Crew with RTS or GPS *	\$284.00
Vehicle for Construction Observation	\$15.00
In-House Scanning and Reproduction	\$0.25/Sq. Ft. (Black & White) \$1.00/Sq. Ft. (Color)
Reimbursable Direct Costs & Services by Others	Cost + 10%

*RTS = Robotic Total Station / GPS = Global Positioning System



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: February 14, 2018
Subject: IL Rt 71 Improvements

The purpose of this memo is to provide an update as to the water main and sanitary sewer improvements that are necessary as part of this project.

Initially, it was anticipated that the City would be responsible for over \$1,250,000 worth of water main and sanitary sewer improvements to eliminate conflicts with the new roadway improvements. This involved the reconstruction of over 4,000 feet of water main along IL Rt 71.

The current plans for the improvements are highlighted in the attached exhibits. By working closely with the Public Works Department, we have greatly reduced the amount of water main that will remain within IDOT right-of-way. By removing this water main, it does now require improvements to be constructed within the Fox Highlands development.

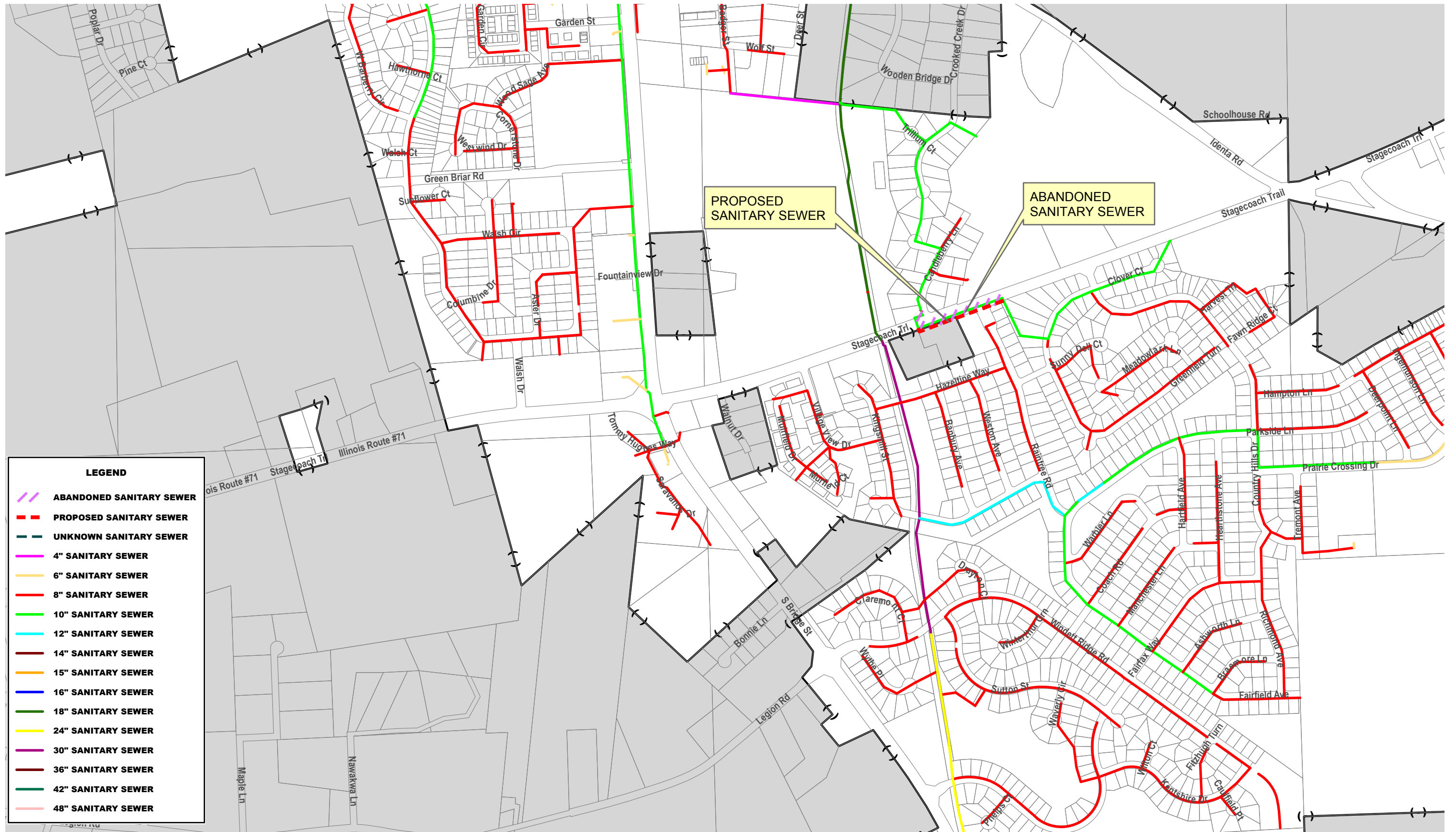
The current construction costs estimates are summarized below.

Contract 66D24 (Rt 47 – Rt 126) - Water	\$115,000	To Be Constructed as Part of Current IDOT Phase
Fox Highlands - Water	\$370,000	To Be Constructed as Part of Current IDOT Phase
Contract 66D24 (Rt 47 – Rt 126) - Sanitary	\$175,000	To Be Constructed as Part of Current IDOT Phase
Contract 66D25 (Walsh – Rt 47) - Water	\$385,000	To be Constructed in Future IDOT Phase

It should be noted that the water main and sanitary sewer work associated with the IL Rt 71 Improvements is included in IDOT's plans and will be part of the overall roadway contract. The plans are complete and are currently going through the permitting process with the IEPA.

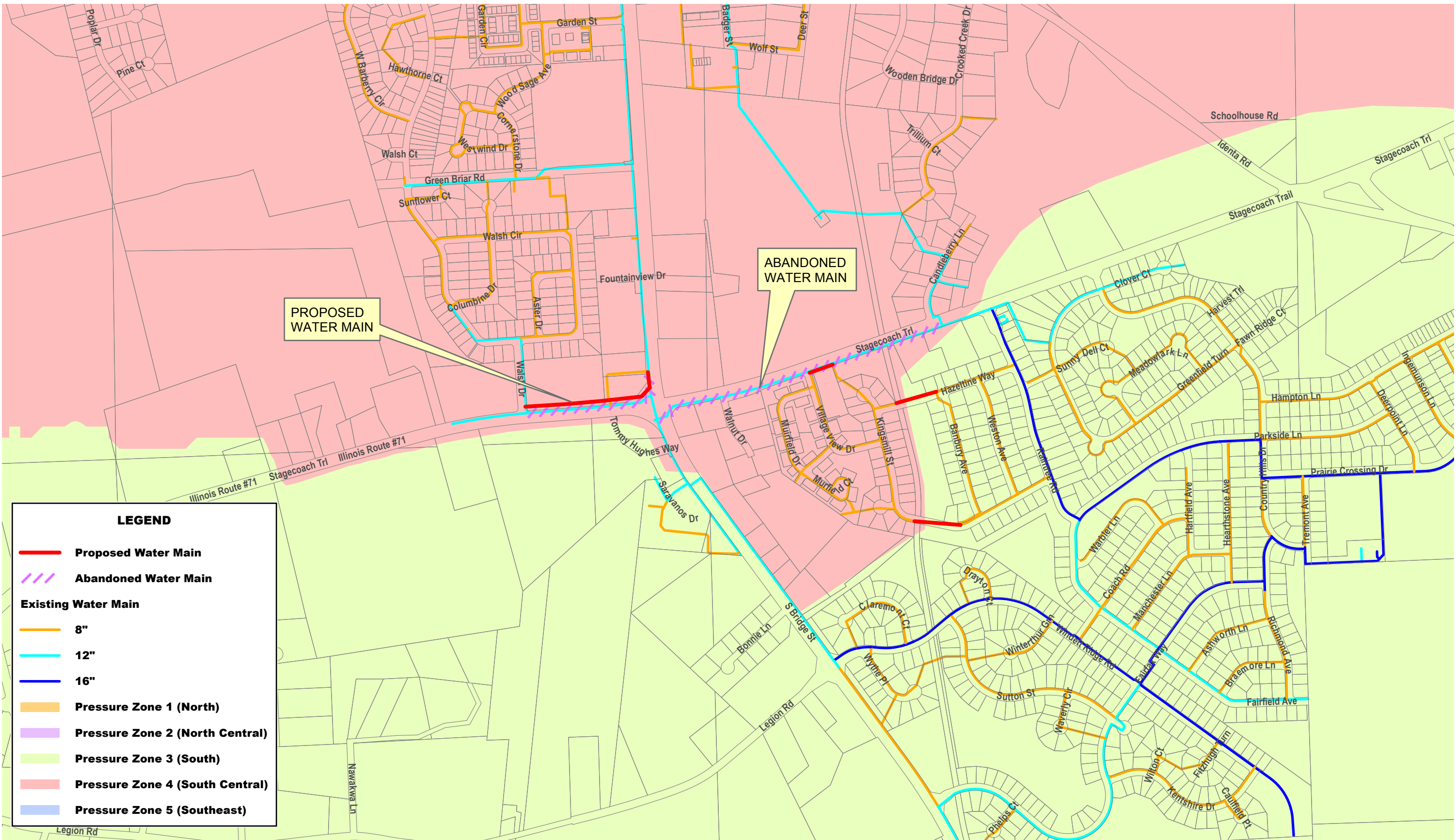
The Fox Highlands water main work will have to be handled outside of the IDOT contract. We are targeting the March Public Works Committee meeting for an engineering agreement to include the Fox Highlands work. This work will have to be constructed in the fall of 2018 to align with IDOT's schedule.

If you have any questions or require additional information, please let us know.



LEGEND

ABANDONED SANITARY SEWER
PROPOSED SANITARY SEWER
UNKNOWN SANITARY SEWER
4" SANITARY SEWER
6" SANITARY SEWER
8" SANITARY SEWER
10" SANITARY SEWER
12" SANITARY SEWER
14" SANITARY SEWER
15" SANITARY SEWER
16" SANITARY SEWER
18" SANITARY SEWER
24" SANITARY SEWER
30" SANITARY SEWER
36" SANITARY SEWER
42" SANITARY SEWER
48" SANITARY SEWER



LEGEND

Proposed Water Main

Abandoned Water Main

Existing Water Main

8"

12"

16"

Pressure Zone 1 (North)

Pressure Zone 2 (North Central)

Pressure Zone 3 (South)

Pressure Zone 4 (South Central)

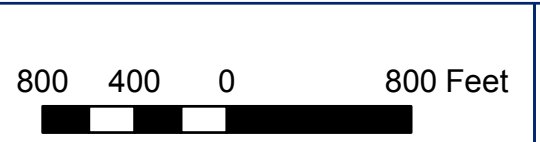
Pressure Zone 5 (Southeast)

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
(630) 466-6700
www.eeiweb.com



United City of Yorkville
800 Game Farm Road
Yorkville, IL 60560
630-553-4350
www.yorkville.il.us

			DATE:	January 2017
			PROJECT NO.:	YO1347
			BY:	MJT
			PATH:	H:\GIS\PUBLIC\YORKVILLE\2013\
			FILE:	YO1347-WM2.MXD
NO.	DATE	REVISIONS		



Route 71 Water Main Replacement





Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #5

Tracking Number

PW 2018-25

Agenda Item Summary Memo

Title: Grande Reserve – Unit 2

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Subdivision Acceptance Consideration

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Approval

Submitted by:

Brad Sanderson

Engineering

Name

Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: February 19, 2018
Subject: Grande Reserve – Unit 2

The developer has requested that the City accept the public improvements for ownership and maintenance.

All work related to the public improvements, including punch list work has been completed. We recommend that the public improvements (water main, sanitary sewer, storm sewer, paving, sidewalk, street lighting and parkway trees) as described in the attached Bill of Sale be accepted for ownership and maintenance by the City.

As required by City Code, the developer will be responsible to provide a performance guarantee to cover the one-year maintenance period. The guarantee should be in the amount of (\$124,225.41). This period starts after the City formally accepts the improvements.

BILL OF SALE

Seller, _____, in consideration of One and 00/100th Dollar (\$1.00), receipt hereby acknowledged, does hereby sell, assign, transfer and convey to the *Buyer*, the United City of Yorkville, an Illinois municipal corporation, at 800 Game Farm Road, Yorkville, Illinois 60560, the following personal property to wit described in Exhibit A attached hereto for the development know as Grande Reserve – Unit 2 and generally shown on Exhibit B.

Seller hereby represents and warrants to *Buyer* that *Seller* is the absolute owner of said property, that said property is free and clear of all liens, charges and encumbrances, and that *Seller* has full right, power, and authority to sell said property and to make this Bill of Sale.

IN WITNESS WHEREOF, *Seller* has signed and sealed this Bill of Sale at _____, this ____ day of _____, 20__.

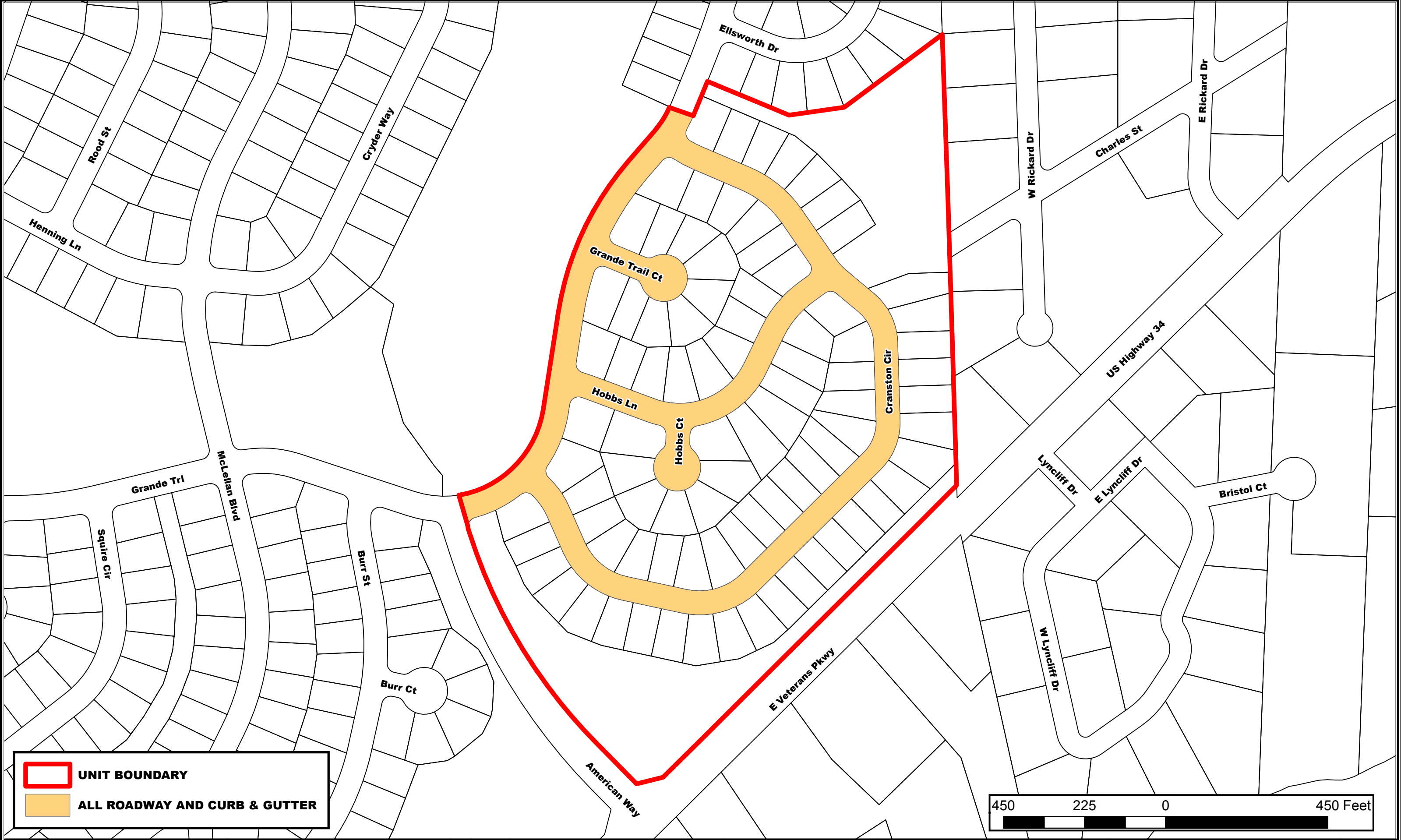
Subscribed and *Sworn* to
before me this ____ day
of _____, 20__.

Notary Public

EXHIBIT A
 GRANDE RESERVE - UNIT 2 (NEIGHBORHOOD 11)
 UNITED CITY OF YORKVILLE

UTILITIES	UNIT	QUANTITIY
STORM SEWER CONSTRUCTION		
4" PVC SUMP CONNECTION	EACH	75
STORM SEWER, PVC, 8"	FOOT	279
STORM SEWER, RCP, 12"	FOOT	1,993
STORM SEWER, RCP, 15"	FOOT	1,146
STORM SEWER, RCP, 18"	FOOT	905
STORM SEWER, RCP, 21"	FOOT	227
STORM SEWER, RCP, 24"	FOOT	1,006
STORM SEWER, RCP, 30"	FOOT	623
INLET, 24" DIA	EACH	19
MANHOLE, 48" DIA	EACH	19
MANHOLE, 60" DIA	EACH	14
CATCH BASIN, 48" DIA	EACH	16
FLARED END SECTION W/ GRATE, 24"	EACH	1
FLARED END SECTION W/ GRATE, 30"	EACH	2
SANITARY SEWER CONSTRUCTION		
8" PVC SANITARY SEWER (SDR 26)	FOOT	2,621
8" PVC SANITARY SEWER (SDR 21)	FOOT	586
6" SANITARY SERVICE COMPLETE - NEAR	EACH	40
6" SANITARY SERVICE COMPLETE - FAR	EACH	34
6" SERVICE RISER	V FOOT	58
48" MANHOLE TYPE A W/ FRAME & LID	EACH	19
WATER MAIN CONSTRUCTION		
8" DUCTILE IRON WATERMAIN W/ POLYWRAF	FOOT	5,879
8" VALVE & BOX	EACH	19
FIRE HYDRANT ASSEMBLY, COMPLETE	EACH	20
1.5" COPPER SERVICE COMPLETED - NEAR	EACH	39
1.5" COPPER SERVICE COMPLETED - FAR	EACH	48
MISCELLANEOUS UNDERGROUND CONSTRUCTION		
STREET LIGHT COMPLETE INCLUDING WIRE & TRENCH	EACH	20
ROADWAY CONSTRUCTION		
5' WIDE - 5" PCC SIDEWALK (ALONG LOT FRONTAGE)	SQ FT	47,670
5' WIDE - 5" PCC SIDEWALK (ALONG OPEN SPACE)	SQ FT	7,875

ROADWAY	UNIT	QUANTITY
GRANDE TRAIL	FOOT	1,320
CRANSTON CIRCLE	FOOT	2,487
HOBBS LANE	FOOT	953
HOBBS COURT	FOOT	170
GRANDE TRAIL COURT	FOOT	230





Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #6

Tracking Number

PW 2018-26

Agenda Item Summary Memo

Title: Grande Reserve – Unit 5

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Subdivision Acceptance Consideration

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Approval

Submitted by:

Brad Sanderson

Engineering

Name

Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: February 19, 2018
Subject: Grande Reserve – Unit 5

The developer has requested that the City accept the public improvements for ownership and maintenance.

All work related to the public improvements, including punch list work has been completed. We recommend that the public improvements (water main, sanitary sewer, storm sewer, paving, sidewalk, street lighting and parkway trees) as described in the attached Bill of Sale be accepted for ownership and maintenance by the City.

As required by City Code, the developer will be responsible to provide a performance guarantee to cover the one-year maintenance period. The guarantee should be in the amount of (\$109,456.65). This period starts after the City formally accepts the improvements.

BILL OF SALE

Seller, _____, in consideration of One and 00/100th Dollar (\$1.00), receipt hereby acknowledged, does hereby sell, assign, transfer and convey to the *Buyer*, the United City of Yorkville, an Illinois municipal corporation, at 800 Game Farm Road, Yorkville, Illinois 60560, the following personal property to wit described in Exhibit A attached hereto for the development know as Grande Reserve – Unit 5, and generally shown on Exhibit B.

Seller hereby represents and warrants to *Buyer* that *Seller* is the absolute owner of said property, that said property is free and clear of all liens, charges and encumbrances, and that *Seller* has full right, power, and authority to sell said property and to make this Bill of Sale.

IN WITNESS WHEREOF, *Seller* has signed and sealed this Bill of Sale at _____, this _____ day of _____, 20__.

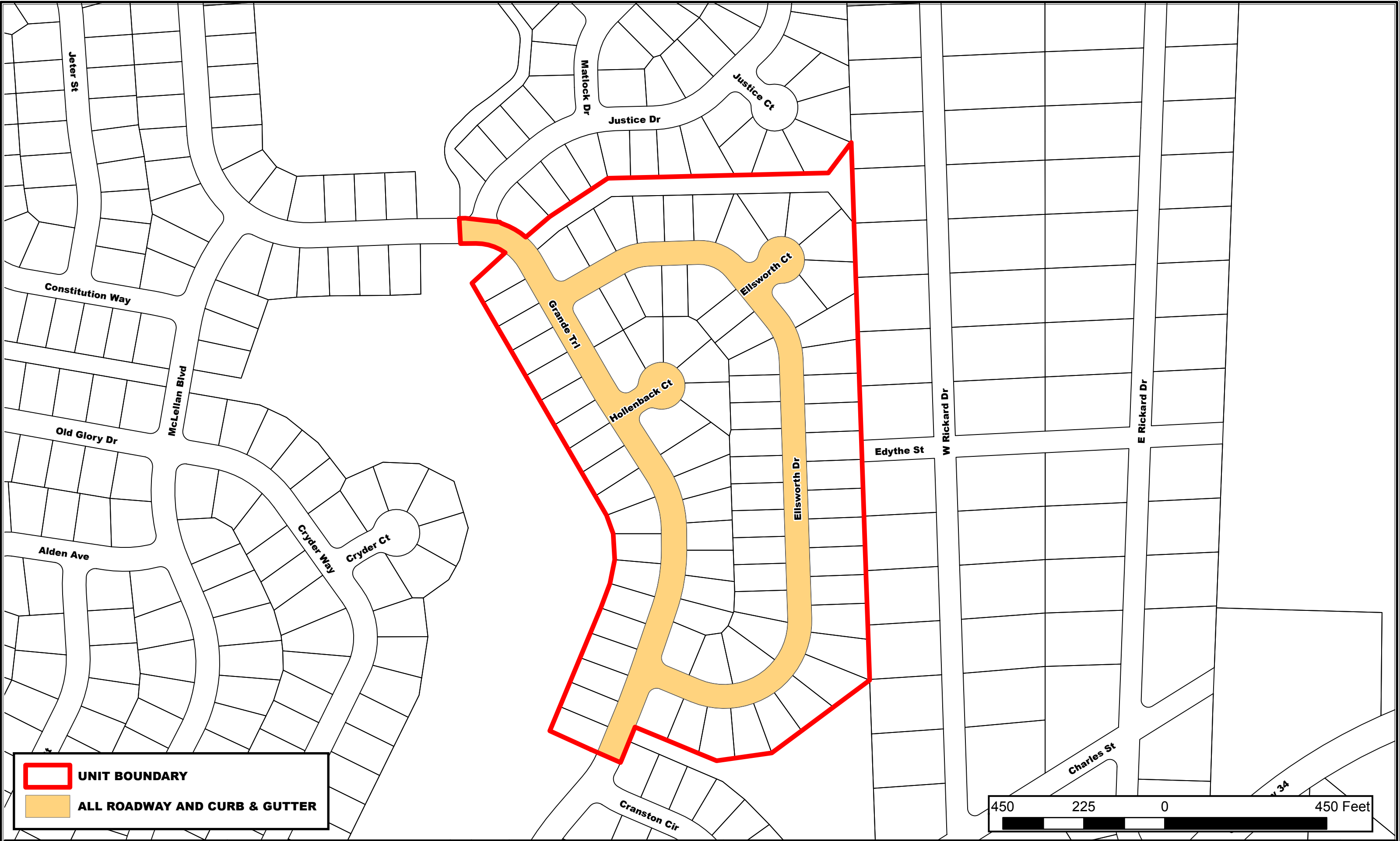
Subscribed and *Sworn* to
before me this _____ day
of _____, 20__.


Notary Public


EXHIBIT A
 GRANDE RESERVE - UNIT 5 (NEIGHBORHOOD 10)
 UNITED CITY OF YORKVILLE

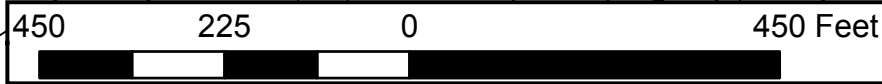
UTILITIES	UNIT	QUANTITY
STORM SEWER CONSTRUCTION		
4" PVC SUMP CONNECTION	EACH	52
STORM SEWER, PVC, 8"	FOOT	120
STORM SEWER, RCP, 12"	FOOT	2,757
STORM SEWER, RCP, 15"	FOOT	874
STORM SEWER, RCP, 18"	FOOT	912
STORM SEWER, RCP, 21"	FOOT	334
STORM SEWER, RCP, 24"	FOOT	1,337
STORM SEWER, RCP, 30"	FOOT	648
STORM SEWER, RCP, 36"	FOOT	556
INLET, 24" DIA	EACH	24
MANHOLE, 48" DIA	EACH	24
MANHOLE, 60" DIA	EACH	19
MANHOLE, 72" DIA	EACH	1
CATCH BASIN, 48" DIA	EACH	18
FLARED END SECTION W/ GRATE, 12"	EACH	1
FLARED END SECTION W/ GRATE, 24"	EACH	3
FLARED END SECTION W/ GRATE, 36"	EACH	1
SANITARY SEWER CONSTRUCTION		
8" PVC SANITARY SEWER (SDR 26)	FOOT	2,260
6" SANITARY SERVICE COMPLETE - NEAR	EACH	30
6" SANITARY SERVICE COMPLETE - FAR	EACH	26
6" SERVICE RISER	V FOOT	54
48" MANHOLE TYPE A W/ FRAME & LID	EACH	18
WATER MAIN CONSTRUCTION		
8" DUCTILE IRON WATERMAIN W/ POLYWRAP	FOOT	4,670
8" VALVE & BOX	EACH	10
FIRE HYDRANT ASSEMBLY, COMPLETE	EACH	16
1.5" COPPER SERVICE COMPLETED - NEAR	EACH	47
1.5" COPPER SERVICE COMPLETED - FAR	EACH	38
MISCELLANEOUS UNDERGROUND CONSTRUCTION		
STREET LIGHT COMPLETE INCLUDING WIRE & TREN	EACH	16
ROADWAY CONSTRUCTION		
5' WIDE - 5" PCC SIDEWALK (ALONG LOT FRONTAG	SQ FT	41,165


ROADWAY	UNIT	QUANTITY
GRANDE TRAIL	FOOT	1,738
HOLLENBACK COURT	FOOT	141
ELLSWORTH DRIVE	FOOT	2,148
ELLSWORTH COURT	FOOT	115
TOTAL		4,142



**UNIT BOUNDARY**

**ALL ROADWAY AND CURB & GUTTER**





Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
(630) 466-6700 / www.eeiweb.com


United City of Yorkville
800 Game Farm Road
Yorkville, IL 60560
(630) 553-4350
<http://www.yorkville.il.us>

NO.	DATE	REVISIONS

DATE:	FEBRUARY 2017
PROJECT NO.:	YO1623
PATH:	H:/GIS/PUBLIC/YORKVILLE/2016/
FILE:	YO1622-GR UNIT 5.MXD

GRANDE RESERVE
UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS

UNIT 5
(NEIGHBORHOOD 10)


NORTH



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #7

Tracking Number

PW 2018-27

Agenda Item Summary Memo

Title: Anthony's Place

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Acceptance Consideration

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Approval

Submitted by:

Brad Sanderson

Engineering

Name

Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: February 20, 2018
Subject: Anthony's Place - Acceptance

The developer has requested that the City accept the public improvements for ownership and maintenance.

All work related to the public improvements, including punch list work has been completed. We recommend that the public improvements (water main, sanitary sewer, and sidewalk) as described in the attached Bill of Sale be accepted for ownership and maintenance by the City.

As required by City Code, the developer will be responsible to provide a performance guarantee to cover the one-year maintenance period. This period starts after the City formally accepts the improvements.

Along with final acceptance, there is a bond reduction to 10% of the value of the public improvements (Maintenance Guarantee).

The existing bond and new amounts are as follows:

North American Specialty Insurance Company No. 2168153 (Existing)	\$208,868.00
Original Approved EOPC (Public Improvement Portion)	\$88,453.50
Required Value (10% of Original)	\$8,845.35
Net Allowable Reduction	\$200,022.65

Upon City Council approval of the acceptance and the receipt of the executed Bill of Sale and new guarantee amount, the existing security may then be released. If you have any questions or require additional information, please call.

BILL OF SALE

Seller, _____, in consideration of One and 00/100th Dollar (\$1.00), receipt hereby acknowledged, does hereby sell, assign, transfer and convey to the *Buyer*, the United City of Yorkville, an Illinois municipal corporation, at 800 Game Farm Road, Yorkville, Illinois 60560, the following personal property to wit described in Exhibit A attached hereto for the development know as Anthony's Place, and generally shown on Exhibit B.

Seller hereby represents and warrants to *Buyer* that *Seller* is the absolute owner of said property, that said property is free and clear of all liens, charges and encumbrances, and that *Seller* has full right, power, and authority to sell said property and to make this Bill of Sale.

IN WITNESS WHEREOF, *Seller* has signed and sealed this Bill of Sale at _____, this ____ day of _____, 20__.

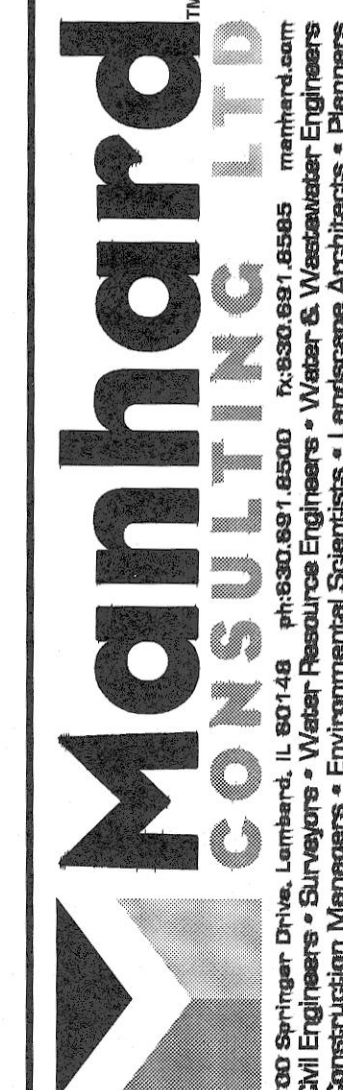
Subscribed and *Sworn* to
before me this ____ day
of _____, 20__.

Notary Public

EXHIBIT A
 ANTHONY'S PLACE (GC HOUSING)
 UNITED CITY OF YORKVILLE

UTILITIES	UNIT	QUANTITIY
SANITARY SEWER CONSTRUCTION		
8" PVC SANITARY SEWER - 0'-12' DEPTH	FOOT	412
4' DIAMETER MANHOLE - 0'-8'	EACH	3
WATER MAIN CONSTRUCTION		
8" DUCTILE IRON WATER MAIN	FOOT	523
6" DUCTILE IRON WATER MAIN	FOOT	118
8" VALVE AND VAULT, STD 4' DIA, W/ FR & LID	EACH	2
FIRE HYDRANT WITH AUXILIARY VALVE	EACH	3
PRESSURE CONNECTION	EACH	2
ROADWAY CONSTRUCTION		
PCC SIDEWALK - 5" WITH SUBBASE	SQ FT	2,150

MARK AVENUE

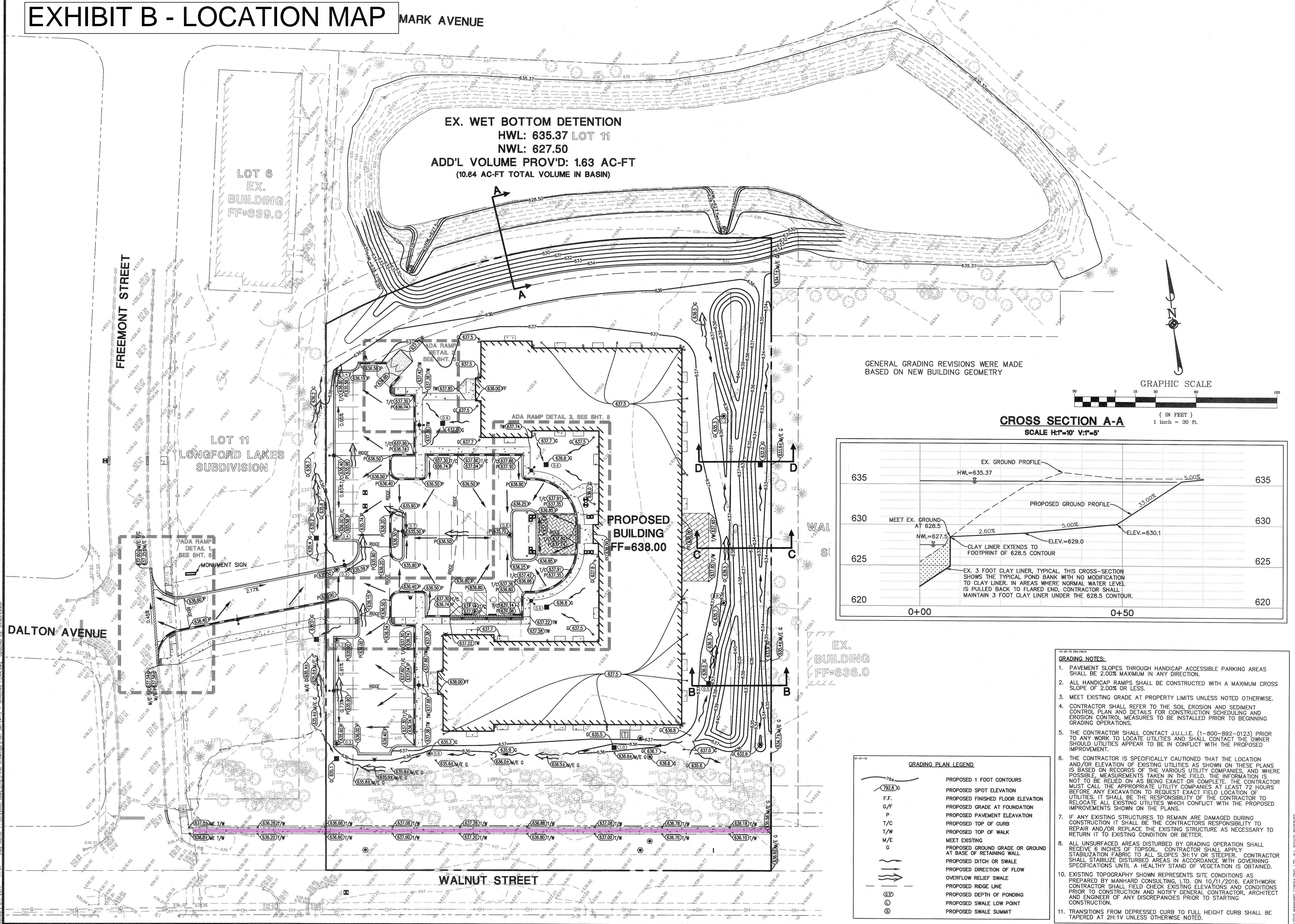
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ANTHONY PLACE
CITY OF YORKVILLE, ILLINOIS
UTILITY PLAN

PROJ. MGR.: <u>JPD</u>	
PROJ. ASSOC.: <u>QDH</u>	
DRAWN BY: <u>PRF</u>	
DATE: <u>11/04/16</u>	
SCALE: <u>1"=30'</u>	
SHEET	
6 OF 12	
CRA.YVIL01	

EXHIBIT B - LOCATION MAP

MARK AVENUE



MANHARD CONSULTING LTD.

700 Spring Drive, Lombard, IL 60148
708.944.1400
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

DATE	01/27/17	REVISIONS	REVISED SOUTHERN UTILITIES PER CLIENT	DATE	01/27/17	REVISIONS	REVISED SOUTHERN UTILITIES PER CLIENT
			PER CITY & YBSD COMMENTS & INTERNAL REVIEW				PER CITY & YBSD COMMENTS & INTERNAL REVIEW
			12/17/16				12/17/16

ANTHONY PLACE
CITY OF YORKVILLE, ILLINOIS
GRADING PLAN

PROJ. MGR.: JPD
PROJ. ASSOC.: OOH
DRAWN BY: OOH
DATE: 11/04/16
SCALE: 1"=30'
SHEET
4 OF 12
CRA.VYL01



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #8

Tracking Number

PW 2018-28

Agenda Item Summary Memo

Title: 2018 Sanitary Sewer Lining Program

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Recommendation of Contract Award

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Award

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at http://www.yorkville.il.us/gov_officials.php



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: March 13, 2018
Subject: 2018 Sanitary Sewer Lining Program

Bids were received, opened and tabulated for work to be done on the 2018 Sanitary Sewer Lining Program at 10:00 a.m., March 8, 2018. Representatives of contractors bidding the project, the City, and our firm were in attendance. A tabulation of the bids and the engineer's estimate is attached for your information and record. The low bid was below our engineer's estimate and within the FY2019 budget.

Therefore, we recommend the acceptance of the bid and approval of award be made to the low bidder, Innovative Underground, LLC, 312 Illini Drive, Yorkville, IL 60560 in the amount of **\$102,804.00.**

Note that work cannot begin until after May 1, 2018.

If you have any questions or require additional information, please let us know.



BID TABULATION BID SCHEDULE A - HEAT CURED POLYESTER LINING 2018 SANITARY SEWER LINING UNITED CITY OF YORKVILLE															
		BID TABULATION BIDS RECD 3/8/2018		INNOVATIVE UNDERGROUND 312 Illini Drive Yorkville, IL 60560		VISU-SEWER, LLC W230 N4855 Betker Road Pewaukee, WI 53072		MICHELS CORP. 817 W. Main Street Brownsville, WI 53006		HOERR CONSTRUCTION, INC. P.O. Box 65 Goodfield, IL 61742		INSITUFORM TECHNOLOGIES 580 Goddard Ave Chesterfield, MO 63005		ENGINEER'S ESTIMATE 52 Wheeler Road Sugar Grove, IL 60554	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	CURED-IN-PLACE-HEAT CURED PIPE LINING, 8"	FOOT	3768	\$ 25.00	\$ 94,200.00	\$ 27.00	\$ 101,736.00	\$ 28.00	\$ 105,504.00	\$ 26.50	\$ 99,852.00	\$ 33.00	\$ 124,344.00	\$ 30.00	\$ 113,040.00
2	CURED-IN-PLACE-HEAT CURED PIPE LINING, 10"	FOOT	179	\$ 26.00	\$ 4,654.00	\$ 50.00	\$ 8,950.00	\$ 71.25	\$ 12,753.75	\$ 86.00	\$ 15,394.00	\$ 68.80	\$ 12,315.20	\$ 35.00	\$ 6,265.00
3	PROTRUDING TAP REMOVAL	EACH	4	\$ 25.00	\$ 100.00	\$ 150.00	\$ 600.00	\$ 250.00	\$ 1,000.00	\$ 250.00	\$ 1,000.00	\$ 264.50	\$ 1,058.00	\$ 210.00	\$ 840.00
4	GROUT JOINTS	EACH	10	\$ 25.00	\$ 250.00	\$ 850.00	\$ 8,500.00	\$ 668.00	\$ 6,680.00	\$ 930.00	\$ 9,300.00	\$ 25.00	\$ 250.00	\$ 500.00	\$ 5,000.00
5	HEAVY ROOT CLEANING	LF	20	\$ 55.00	\$ 1,100.00	\$ 1.00	\$ 20.00	\$ 22.50	\$ 450.00	\$ 10.00	\$ 200.00	\$ 5.00	\$ 100.00	\$ 7.00	\$ 140.00
6	RAILROAD FLAGGER	LSUM	1	\$ 1,250.00	\$ 1,250.00	\$ 1,200.00	\$ 1,200.00	\$ 913.00	\$ 913.00	\$ 1,800.00	\$ 1,800.00	\$ 4,760.30	\$ 4,760.30	\$ 3,000.00	\$ 3,000.00
7	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	\$ 1,250.00	\$ 1,250.00	\$ 1,800.00	\$ 1,800.00	\$ 1,625.00	\$ 1,625.00	\$ 3,600.00	\$ 3,600.00	\$ 2,115.70	\$ 2,115.70	\$ 6,500.00	\$ 6,500.00
	TOTAL (Items 1 - 7)				\$ 102,804.00		\$ 122,806.00		\$ 128,925.75		\$ 131,146.00		\$ 144,943.20		\$ 134,785.00

% BELOW/ABOVE ENGINEER'S ESTIMATE

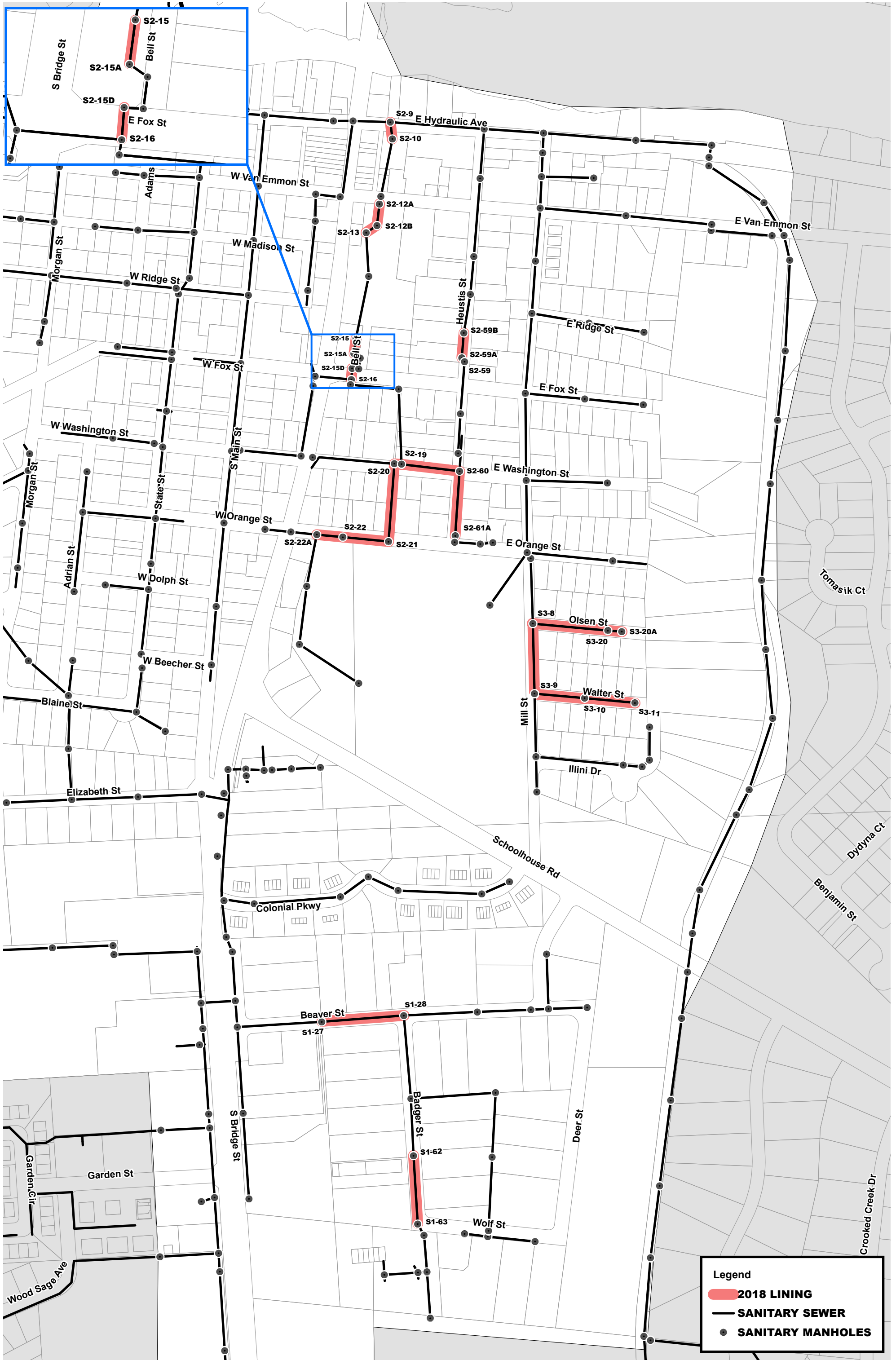
-23.7%

-8.9%

-4.3%

-2.7%

7.5%



Legend

2018 LINING

SANITARY SEWER

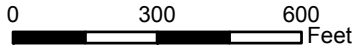
SANITARY MANHOLES

Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, Illinois 60554
(630) 466-6700
www.eeiweb.com



United City of Yorkville
800 Game Farm Road
Yorkville, IL 60560
630-553-4350
www.yorkville.il.us

		DATE:	FEBRUARY 2018
		PROJECT NO.:	Y01744
		BY:	MJT
		PATH:	H:\GIS\PUBLIC\YORKVILLE\2017\
NO.	DATE	REVISIONS	FILE: Y01744_2018 Proposed.MXD



SANITARY LINING
LOCATION MAP





Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #9

Tracking Number

PW 2018-29

Agenda Item Summary Memo

Title: 2018 Road to Better Roads Program

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Recommendation of Contract Award

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Award

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Erin Willrett, Assistant City Administrator
Lisa Pickering, Deputy City Clerk

Date: March 12, 2018
Subject: 2018 Roads to Better Roads Program

Bids were received, opened and tabulated for work to be done on the 2018 Roads to Better Roads Program at 11:30 a.m., March 12, 2018. Representatives of contractors bidding the project, the City, and our firm were in attendance. A tabulation of the bids and the engineer's estimate is attached for your information and record. The low bid was below our engineer's estimate and within the FY2019 budget.

We recommend the acceptance of the bid and approval of award be made to the low bidder, D Construction, Co., 1488 S Broadway Street, Coal City, IL 60416 in the amount of **\$385,182.36**.

If you have any questions or require additional information, please let us know.



Engineering Enterprises, Inc.

**BID TABULATION
2018 ROAD PROGRAM
UNITED CITY OF YORKVILLE**

		BID TABULATION BIDS RECD 3/12/2018		D CONSTRUCTION, INC 1488 S BROADWAY COAL CITY, IL 60416		GENEVA CONSTRUCTION CO. P.O. BOX 998 AURORA, IL 60507		BUILDERS PAVING, LLC 4413 ROOSEVELT ROAD STE 108 HILLSDALE, IL 60162		ENGINEER'S ESTIMATE 52 Wheeler Road Sugar Grove, IL 60554	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	12570	\$ 0.01	\$ 125.70	\$ 0.01	\$ 125.70	\$ 0.01	\$ 125.70	\$ 0.20	\$ 2,514.00
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	222	\$ 8.00	\$ 1,776.00	\$ 10.00	\$ 2,220.00	\$ 22.00	\$ 4,884.00	9.00	1,998.00
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1045	\$ 60.00	\$ 62,700.00	\$ 65.00	\$ 67,925.00	\$ 78.00	\$ 81,510.00	66.00	68,970.00
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1567	\$ 61.00	\$ 95,587.00	\$ 64.00	\$ 100,288.00	\$ 72.00	\$ 112,824.00	66.00	103,422.00
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	1	\$ 85.00	\$ 85.00	\$ 575.00	\$ 575.00	\$ 288.72	\$ 288.72	100.00	100.00
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2495	\$ 6.95	\$ 17,340.25	\$ 5.90	\$ 14,720.50	\$ 6.75	\$ 16,841.25	7.00	17,465.00
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	175	\$ 7.50	\$ 1,312.50	\$ 6.60	\$ 1,155.00	\$ 7.00	\$ 1,225.00	8.00	1,400.00
42400800	DETECTABLE WARNINGS	SQ FT	166	\$ 25.00	\$ 4,150.00	\$ 23.00	\$ 3,818.00	\$ 24.00	\$ 3,984.00	25.00	4,150.00
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	16060	\$ 2.00	\$ 32,120.00	\$ 2.40	\$ 38,544.00	\$ 2.60	\$ 41,756.00	3.20	51,392.00
44000600	SIDEWALK REMOVAL	SQ FT	2939	\$ 1.80	\$ 5,290.20	\$ 1.15	\$ 3,379.85	\$ 2.00	\$ 5,878.00	2.00	5,878.00
44201670	CLASS D PATCHES, TYPE I, 2 INCH	SQ YD	287	\$ 15.00	\$ 4,305.00	\$ 25.00	\$ 7,175.00	\$ 16.75	\$ 4,807.25	20.00	5,740.00
44201672	CLASS D PATCHES, TYPE II, 2 INCH	SQ YD	287	\$ 15.00	\$ 4,305.00	\$ 24.00	\$ 6,888.00	\$ 15.50	\$ 4,448.50	20.00	5,740.00
44201674	CLASS D PATCHES, TYPE III, 2 INCH	SQ YD	287	\$ 14.00	\$ 4,018.00	\$ 24.00	\$ 6,888.00	\$ 14.25	\$ 4,089.75	20.00	5,740.00
44201676	CLASS D PATCHES, TYPE IV, 2 INCH	SQ YD	1730	\$ 14.00	\$ 24,220.00	\$ 19.00	\$ 32,870.00	\$ 14.15	\$ 24,479.50	20.00	34,600.00
45100100	CRACK ROUTING (PAVEMENT)	FOOT	81875	\$ 0.01	\$ 818.75	\$ 0.05	\$ 4,093.75	\$ 0.05	\$ 4,093.75	0.01	818.75
45100200	CRACK FILLING	POUND	27291	\$ 1.40	\$ 38,207.40	\$ 1.08	\$ 29,474.28	\$ 1.08	\$ 29,474.28	1.45	39,571.95
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	27	\$ 30.00	\$ 810.00	\$ 60.00	\$ 1,620.00	\$ 70.00	\$ 1,890.00	50.00	1,350.00
60255500	MANHOLES TO BE ADJUSTED	EACH	6	\$ 350.00	\$ 2,100.00	\$ 425.00	\$ 2,550.00	\$ 400.00	\$ 2,400.00	650.00	3,900.00
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	\$ 650.00	\$ 1,300.00	\$ 800.00	\$ 1,600.00	\$ 740.00	\$ 1,480.00	850.00	1,700.00



Engineering Enterprises, Inc.

**BID TABULATION
2018 ROAD PROGRAM
UNITED CITY OF YORKVILLE**

		BID TABULATION BIDS RECD 3/12/2018		D CONSTRUCTION, INC 1488 S BROADWAY COAL CITY, IL 60416		GENEVA CONSTRUCTION CO. P.O. BOX 998 AURORA, IL 60507		BUILDERS PAVING, LLC 4413 ROOSEVELT ROAD STE 108 HILLSIDE, IL 60162		ENGINEER'S ESTIMATE 52 Wheeler Road Sugar Grove, IL 60554	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	7	\$ 750.00	\$ 5,250.00	\$ 850.00	\$ 5,950.00	\$ 620.00	\$ 4,340.00	900.00	6,300.00
X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	\$ 900.00	\$ 900.00	\$ 1,100.00	\$ 1,100.00	\$ 950.00	\$ 950.00	1,171.00	1,171.00
60260100	INLETS TO BE ADJUSTED	EACH	11	\$ 350.00	\$ 3,850.00	\$ 325.00	\$ 3,575.00	\$ 300.00	\$ 3,300.00	500.00	5,500.00
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	\$ 130.00	\$ 260.00	\$ 300.00	\$ 600.00	\$ 240.00	\$ 480.00	200.00	400.00
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3840	\$ 0.89	\$ 3,417.60	\$ 0.98	\$ 3,763.20	\$ 0.50	\$ 1,920.00	0.70	2,688.00
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	134	\$ 1.54	\$ 206.36	\$ 1.40	\$ 187.60	\$ 2.25	\$ 301.50	1.05	140.70
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	490	\$ 3.03	\$ 1,484.70	\$ 2.60	\$ 1,274.00	\$ 3.12	\$ 1,528.80	2.10	1,029.00
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	68	\$ 6.05	\$ 411.40	\$ 4.95	\$ 336.60	\$ 15.00	\$ 1,020.00	4.20	285.60
XX003435	PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	7	\$ 80.00	\$ 560.00	\$ 85.00	\$ 595.00	\$ 80.00	\$ 560.00	100.00	700.00
XX008115	SEEDING, CLASS 1A SPECIAL	SQ YD	568	\$ 23.00	\$ 13,064.00	\$ 9.75	\$ 5,538.00	\$ 11.75	\$ 6,674.00	12.00	6,816.00
XX006172	ROUTING AND SEALING CRACKS	FOOT	9250	\$ 0.57	\$ 5,272.50	\$ 0.50	\$ 4,625.00	\$ 0.50	\$ 4,625.00	2.70	24,975.00
XX006947	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	219	\$ 35.00	\$ 7,665.00	\$ 33.00	\$ 7,227.00	\$ 55.00	\$ 12,045.00	35.00	7,665.00
XX007031	FRAME AND GRATE, SPECIAL	EACH	4	\$ 750.00	\$ 3,000.00	\$ 400.00	\$ 1,600.00	\$ 475.00	\$ 1,900.00	250.00	1,000.00
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1122	\$ 35.00	\$ 39,270.00	\$ 29.40	\$ 32,986.80	\$ 27.00	\$ 30,294.00	40.00	44,880.00
	TOTAL (Items 1 - 33)				385,182.36		395,268.28		416,418.00		460,000.00

% BELOW/ABOVE ENGINEER'S ESTIMATE

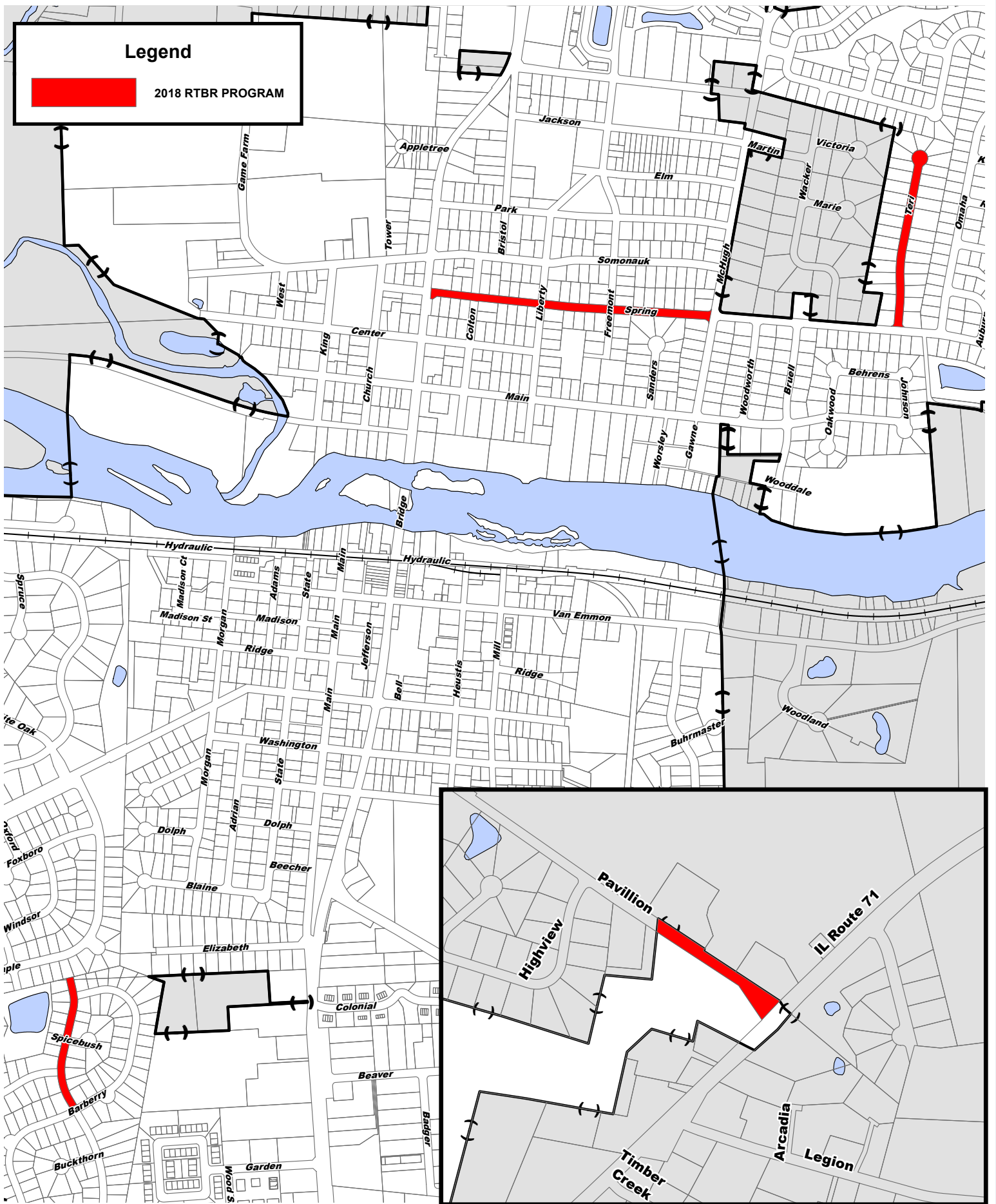
-16.3%

-14.1%

-9.5%

Legend

2018 RTBR PROGRAM



Engineering Enterprises, Inc.

52 Wheeler Road
Sugar Grove, Illinois 60554
(630) 466-6700
www.eeiweb.com



United City of Yorkville

800 Game Farm Road
Yorkville, IL 60560
630-553-4350

DATE: September 2017
PROJECT NO.: YO1739
BY: MJT
PATH: H:\GIS\PUBLIC\YORKVILLE\2017
FILE: YO1739_2018 Road Program.MXD

**PROPOSED 2018 RTBR PROGRAM
LOCATION MAP**





Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #10

Tracking Number

PW 2018-30

Agenda Item Summary Memo

Title: Whispering Meadows Units 1, 2 and 4 – Completion of Improvements

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Review of Bid Results

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Bid Award

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:

Have a question or comment about this agenda item?

Call us Monday-Friday, 8:00am to 4:30pm at 630-553-4350, email us at agendas@yorkville.il.us, post at www.facebook.com/CityofYorkville, tweet us at @CityofYorkville, and/or contact any of your elected officials at http://www.yorkville.il.us/gov_officials.php



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: March 15, 2018
Subject: Whispering Meadows Units 1, 2 & 4 – Completion of Improvements

The bid letting is scheduled for March 19th at 11:30 am. EEI will present the bid results at the Public Works Committee meeting for review and discussion.



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>

Agenda Item Number

New Business #11

Tracking Number

PW 2018-31

Agenda Item Summary Memo

Title: Traffic Control Request – Sutton and Windett Ridge

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: Signage Recommendation

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Consideration of Approval

Submitted by: Brad Sanderson Engineering
Name Department

Agenda Item Notes:



Memorandum

To: Bart Olson, City Administrator
From: Brad Sanderson, EEI
CC: Eric Dhuse, Director of Public Works
Krysti Barksdale-Noble, Community Dev. Dir.
Lisa Pickering, Deputy City Clerk

Date: March 7, 2018
Subject: Sutton Street and Windett Ridge Road Stop Sign

As requested, we investigated the possible installation of stop signs at the intersection of Sutton Street and Windett Ridge Road. Our findings were as follows:

- Currently there is no signage control at the crossing.
- The intersection at Sutton Street and Windett Ridge Road has sight distance constraints at the southwest corner of the intersection. When a house is built on the southeast corner of the intersection, the intersection will have additional sight constraints.
- The governing entity on traffic control signage is the Manual on Uniform Traffic Control Devices (MUTCD). The manual states as follows in regards to stop sign installation:

Guidance:

Engineering judgment should be used to establish intersection control. The following factors should be considered:

- A. Vehicular, bicycle, and pedestrian traffic volumes on all approaches;*
- B. Number and angle of approaches;*
- C. Approach speeds;*
- D. Sight distance available on each approach; and*
- E. Reported crash experience.*

YIELD or STOP signs should be used at an intersection if one or more of the following conditions exist:

- A. An intersection of a less important road with a main road where application of the normal right-of-way rule would not be expected to provide reasonable compliance with the law;*
- B. A street entering a designated through highway or street; and/or*
- C. An unsignalized intersection in a signalized area.*

In addition, the use of YIELD or STOP signs should be considered at the intersection of two minor streets or local roads where the intersection has more than three approaches and where one or more of the following conditions exist:

- A. The combined vehicular, bicycle, and pedestrian volume entering the intersection from all approaches averages more than 2,000 units per day;*
- B. The ability to see conflicting traffic on an approach is not sufficient to allow a road user to stop or yield in compliance with the normal right-of-way rule if such stopping or yielding is necessary; and/or*
- C. Crash records indicate that five or more crashes that involve the failure to yield the right-of-way at the intersection under the normal right-of-way rule have been reported within a 3-year period, or that three or more such crashes have been reported within a 2-year period.*

Yield or Stop signs should not be used for speed control.

The traffic volume is below 2,000 units per day and there does not appear to be an accident history. However, due to sight distance constraints at the southwest corner of the intersection and future sight distance constraints on the southeast corner, a stop sign is recommended for the Sutton Street approach.

It is our understanding that there may be a concern regarding speed at the intersection. This may be more properly addressed with enforcement or if necessary traffic calming devices. We will be prepared to discuss further at the committee meeting. If you have any questions or need additional information, please call.

UNITED CITY OF YORKVILLE
TWO WAY YIELD OR STOP
PRELIMINARY ENGINEERING EVALUATION

Location:

Windett Ridge Road and Sutton Street

Evaluation Criteria

Guidance: Engineering judgement should be used to establish intersection control. The following factors should be considered:

- A. Vehicular, bicycle, and pedestrian traffic volumes on all approaches;
- B. Number and angle of approaches;
- C. Approach speeds;
- D. Sight distance available on each approach; and
- E. Reported crash experience.

<u>Criteria Met</u>			<u>Criteria**</u>
Yes	Additional Study Required	No	
I. YIELD or STOP signs should be used at an intersection if one or more of the following conditions exist:			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A. An intersection of a less important road with a main road where application of the normal right-of-way rule would not be expected to provide reasonable compliance with the law.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	B. A street entering a designated through highway or street; and/or
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C. An unsignalized intersection in a signalized area.
II. In addition, the use of YIELD or STOP signs should be considered at the intersection of two minor streets or local roads where the intersection has more than three approaches and where one or more of the following conditions exist:			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A. The combined vehicular, bicycle, and pedestrian volume entering the intersection from all approaches averages more than 2,000 units per day;
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B. The ability to see conflicting traffic on an approach is not sufficient to allow a road user to stop or yield in compliance with the normal right-of-way rule if such stopping or yielding is necessary; and/or
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C. Crash records indicate that five or more crashes that involve the failure to yield the right-of-way at the intersection under the normal right-of-way rule have been reported within a 3-year period, or that three or more such crashes have been reported within a 2-year period.

Based on a preliminary review of the criteria for a YIELD or STOP sign the following action is recommended:

- A. ☒ Criteria are clearly met recommending installation of a YIELD or STOP sign (Circle designated sign type)

Designate Location: Sutton Street

- B. ☐ Criteria are not clearly met at this time - no further action recommended

- C. ☐ Criteria may or may not be met - additional engineering study required

By: Glenn M. Finkler

Date: 3/7/18

Senior Project Engineer
Title

By: _____

Date: _____

Title

**Sutton Street and Windett Ridge Road
Intersection Photos**



Westbound Approach, Looking West



Westbound Approach, Looking South

**Sutton Street and Windett Ridge Road
Intersection Photos**



Eastbound Approach, Looking East



Eastbound Approach, Looking South

**Sutton Street and Windett Ridge Road
Intersection Photos**



Northbound Approach, Looking North

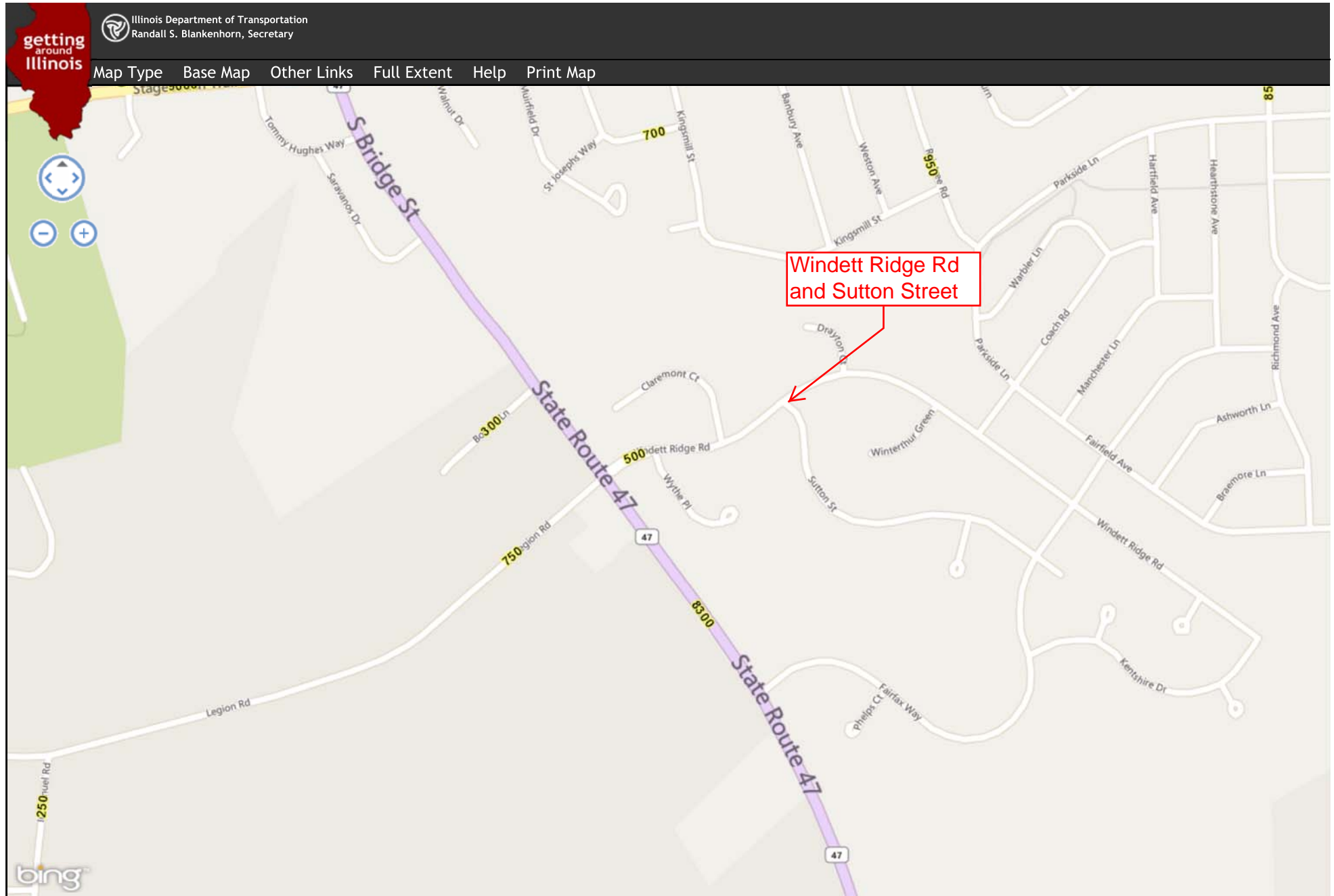


Northbound Approach, Looking West

**Sutton Street and Windett Ridge Road
Intersection Photos**



Northbound Approach, Looking East



Illinois Department of Transportation 2300 S. Dirksen Parkway Springfield, IL 62764 - [Contact](#)

Disclaimer

The Illinois Department of Transportation and the State of Illinois hereby give notice to all users that these maps and the data included hereon, lack the accuracy required for site-specific uses. Since all boundaries and all data are based on information derived from multiple sources within Transportation and the State of Illinois make no representation, guarantee, or warrant, either express or implied, regarding the accuracy of these maps or the data furnished thereon, including, but not limited to, the condition of this product, this product's merchantability, or this product's fitness for a particular purpose.



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #12

Tracking Number

PW 2018-32

Agenda Item Summary Memo

Title: CMAP LTA Grant

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: See attached memo.

Council Action Previously Taken:

Date of Action: _____ Action Taken: _____

Item Number: _____

Type of Vote Required: Majority

Council Action Requested: Approval

Submitted by: Eric Dhuse Engineering
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
From: Eric Dhuse, Director of Public Works
CC: Bart Olson, Administrator
Date: March 14, 2018
Subject: CMAP LTA grant

Summary

Seeking approval of a Resolution authorizing the execution of a Memorandum of Understanding with the Chicago Metropolitan Agency for Planning for planning and technical assistance services for the study of shared water supply service governance options in the amount of \$2000.

Background

The United City of Yorkville along with the Villages of Oswego and Montgomery are considering the construction of a water plant to serve all three communities. There are many forms of governance for the operation of the plant. Under one scenario, one community could own and manage the plant while selling the water wholesale to the other communities. A second scenario has the communities creating a joint water action agency.

The municipalities applied and were awarded a Local Technical Assistance grant from CMAP to conduct a study of governance options. CMAP is receiving funding from IEPA to use our group as a case study for other communities who face similar issues. CMAP will subcontract with the Metropolitan Planning Council to conduct the research.

The scope of work associated with the MOU outlines the tasks to be completed:

1. Project initiation (February 2018)
2. Research shared water supply service governance options (March-April 2018)
3. Draft and finalize shared water supply service governance options (May-June 2018)

Recommendation

Although all communities are still evaluating options for the water source, staff recommends approval of the resolution and the expenditure of \$2000 for our share of the study. The study is primarily funded by the IEPA and the funds may not be available in the future. The recommendations that come out of the study will allow us to move quickly in the event that the Fox River alternate is chosen.

I would ask that this be placed on the March 20, 2018 public works committee meeting for discussion. Please let me know if you have questions or need further information.



Chicago Metropolitan Agency for Planning

233 South Wacker Drive
Suite 800
Chicago, Illinois 60606

312 454 0400
www.cmap.illinois.gov

CMAP Local Technical Assistance Program Memorandum of Understanding between CMAP and the Village of Oswego, Village of Montgomery and the United City of Yorkville

February 23, 2018

Please note: "LTA staff" means CMAP staff assigned to work with local governments and community groups as part of the Local Technical Assistance program.

1. CMAP / applicant relationship

- CMAP shall assign staff to work with local governments and the community as part of the Local Technical Assistance program.
- Applicant shall assign a lead person to be the main point of contact for LTA staff.
- CMAP staff will report on the overall scope of work and day-to-day activities to the applicant. Assigned staff are CMAP employees and CMAP is responsible for evaluating their performance.
- CMAP management, in addition to the CMAP staff assigned to the project, may periodically check-in (frequency to be determined based on need) with applicant.
- CMAP is responsible for assigning relevant LTA staff to work on the project (based on availability, skills, familiarity with the applicant community, and applicant preferences).
- Applicant understands that CMAP assistance is provided as a means of advancing the implementation of the GO TO 2040 Plan as the long-range regional comprehensive plan for the seven-county Chicago region, encompassing Cook, DuPage, Kane, Kendall, Lake, McHenry and Will counties, as well as priorities that are part of the ON TO 2050 plan that CMAP is developing.

2. Access to resources

- LTA staff will have full access to CMAP data and other resources, including specialized CMAP staff (for advanced mapping, data, outreach, communications, or topic-specific expertise).
- The applicant will provide access to relevant staff who will need to be involved in the project, and will ensure that they allocate sufficient time to the project.
- The applicant will provide access to all relevant internal data, reports, and other information necessary to successfully complete the project.
- The applicant's leadership (key staff, planning commissioners, board members, other elected officials, other decision-makers) commits to participate in the project and allocate sufficient time at meetings (Plan Commission meetings, council meetings, etc.) to ensure due consideration so the project is successful.

3. Demonstration of local support

- Applicant's governing board shall be required to pass a resolution supporting the project before work will begin or in the alternative, applicant may affirm that the governing board is aware and supportive of the project.
- Formal action by the applicant's governing board and commitment to a local financial contribution to the LTA fund, if applicable, shall be documented through a separate resolution and/or Intergovernmental Agreement between the applicant and CMAP.
- The applicant shall be responsible for working with CMAP to identify members for a project steering committee or similar oversight group.
- If public outreach is a component of the project, the applicant agrees to participate in public outreach and engagement efforts; including assisting in dissemination of project and meeting information, attending and assisting at public meetings, and providing key stakeholder contact information.
- Applicant agrees to provide an inclusive, open, safe and welcoming environment in which to conduct meetings and outreach events.

4. Project management and review

- Prior to and following enacting this MOU, CMAP and applicant will jointly determine and document the project scope of work, timelines, public engagement schedules, commitment of non-staff resources by either CMAP or the applicant, and other elements prior to beginning work. CMAP may also request applicant assistance to establish expectations and performance goals for the project and process.
- CMAP and applicant shall jointly agree to changes to project scope or timelines; CMAP may discontinue the project if major deviations, changes, or expansions of scope or schedule occur.
- All work performed by LTA staff must be related to the scope of work. The majority should be directly referenced within work plan, but some indirectly related activities are also permitted
- Allocation of LTA staff to each project will vary over time based on project timeline and work needs.
- The full project scope of work is attached to this MOU as Attachment 1.
- In order to maintain project progress and momentum, the applicant agrees to review and provide feedback on project deliverables in a timely manner, in accordance with the agreed upon timelines.
- Applicant agrees to make best faith effort to adopt and implement the completed plan within agreed upon timelines.

The undersigned parties agree to the terms listed above.

CMAP Representative:

Melissa Porter, Chief of Staff

Date

Village of Oswego

NAME AND TITLE

Date

Village of Montgomery

NAME AND TITLE

Date

United City of Yorkville

NAME AND TITLE

Date

Shared water supply service governance options – Oswego, Montgomery, and Yorkville case study.

Purpose: Conduct a study of shared water supply service governance options for Oswego, Montgomery, and Yorkville in order to provide a sustainable, efficient, and cost effective water supply. The study will explore governance structures, funding options, decision making processes and other issues that require intergovernmental coordination in order to make a shared water supply service work. The findings will be summarized in a report to Oswego, Montgomery, and Yorkville and will be useful to a wider audience contemplating similar decisions.

Tasks

1. Project initiation (February 2018)

The project team will meet with representatives of Oswego, Montgomery, and Yorkville to confirm project goals, objectives, and timelines for this project, establish a process for working together, and outline the specific questions the communities would like guidance on. Representatives from Oswego, Montgomery, and Yorkville will provide the project team with recent engineering reports that have explored water supply options, along with any pertinent, additional information necessary for considering and evaluating shared water supply service options.

Roles:

- MPC will lead the meeting and sketch out a research scope summary.
- CMAP will participate in the meeting.

Deliverables: Confirmed project goals and research scope, and established plan for working together.

2. Research shared water supply service governance options (March - April, 2018)

The project team will explore potential governing mechanisms, such as creating a new governing entity or designating one municipality as the water supply developer who then sells bulk water to the others, etc. The exploration will utilize case studies, where available, from experts within the region and nation as well as other best practices guidance and literature.

The research will help inform key questions to be addressed, which could include: available legal structures for shared service; decision making processes; dispute resolution; funding options; staffing considerations; withdrawal from agreement; commitments from communities to maintain infrastructure.

Roles:

- MPC will lead this research effort and summarize findings.
- CMAP will provide limited research capacity on identified, published best practices.

Deliverables: Completion of research tasks and findings.

3. Draft and finalize shared water supply service governance options (May-June, 2018)

The project team will distill potential governance options, which will be described in a written report that presents these options and the key components, tradeoffs, and potential next steps for proceeding. The draft report will be shared and reviewed by the designated representatives of Oswego, Montgomery, and Yorkville, and the project team will revise the report, as appropriate, based on feedback received. The report will also provide a general overview for other communities that will highlight important considerations when exploring similar structures for shared water supply service.

Roles:

- MPC will write, revise, and present the report.
- CMAP will provide guidance and feedback for the report, and will produce a PowerPoint slide deck outlining the project, its process and key findings (as outlined in the report) for the communities to use when presenting to their respective Boards.

Deliverables:

- Draft report for review by Oswego, Montgomery, and Yorkville.
- Discussion on draft report between project team and designated representatives of Oswego, Montgomery, and Yorkville.
- Final report presented to designated representatives of Oswego, Montgomery, and Yorkville.
- PowerPoint slide deck for the communities to use for presenting to their respective Boards.

Resolution No. 2018-_____

**A RESOLUTION TO ACCEPT PLANNING TECHNICAL ASSISTANCE SERVICES
DELIVERED BY THE CHICAGO METROPOLITAN AGENCY FOR PLANNING**

WHEREAS, the United City of Yorkville (“the City”) has applied for technical assistance services through the Chicago Metropolitan Agency for Planning (“CMAP”), for a study of shared water supply service governance options for Oswego, Montgomery, and Yorkville in order to provide a sustainable, efficient, and cost-effective water supply; and

WHEREAS, the City’s request for such assistance has been recommended by CMAP as a priority project; and

WHEREAS, CMAP has adopted the GO TO 2040 Plan as the long-range regional comprehensive plan for the seven-county Chicago region, encompassing Cook, DuPage, Kane, Kendall, Lake, McHenry and Will counties, is developing the ON TO 2050 Plan to be adopted in October 2018, and is providing technical assistance as a means of advancing the plan’s implementation and CMAP priorities; and

WHEREAS, the City and CMAP have agreed on the general contents of a Memorandum of Understanding (“MOU”) and a Scope of Services that will guide technical assistance services to be provided by CMAP;

NOW, THEREFORE BE IT RESOLVED BY THE UNITED CITY OF YORKVILLE:

- Section 1:** the United City of Yorkville supports this project to conduct a study of shared water supply service governance options for Oswego, Montgomery, and Yorkville in order to provide a sustainable, efficient and cost effective water supply.
- Section 2:** the United City of Yorkville accepts the offer of technical assistance services by CMAP and recognizes that these services are provided for the purpose of advancing the implementation of GO TO 2040 and other CMAP priorities.
- Section 3:** the United City of Yorkville agrees to pay CMAP a local financial contribution of \$2,000 to the LTA fund.
- Section 4:** the United City of Yorkville recognizes that provisions that govern the administration of technical assistance services, and, if necessary, the discontinuance of such services, are included in the Memorandum of Understanding and Scope of Services.
- Section 5:** This resolution shall be effective as of the date of its adoption.

Passed by the City Council of the United City of Yorkville, Kendall County, Illinois this
_____ day of _____, 2018.

CITY CLERK

CARLO COLOSIMO _____ KEN KOCH _____

JACKIE MILSCHEWSKI _____ ARDEN JOE PLOCHER _____

CHRIS FUNKHOUSER _____ JOEL FRIEDERS _____

SEAVER TARULIS _____ ALEX HERNANDEZ _____

Approved by me, as Mayor of the United City of Yorkville, Kendall County, Illinois, this
_____ day of _____, 2018.

MAYOR



**Application form:
RTA Community Planning Program and
CMAP Local Technical Assistance Program**

DEADLINE: Noon on Thursday, June 29, 2017

This application form is online at www.rtachicago.org/applications. You may submit the form by email to applications@rtachicago.org.

Upon receipt of application, you will receive an e-mail verifying that your application has been received.

1. Name of Applicant

Villages of Oswego & Montgomery & United City of Yorkville – Joint Study of Governance Structure for Shared Water Treatment Plant

2. Main Contact for Application

Name: **Jennifer Hughes**

Title: **Public Works Director – Oswego**

Phone number: **630-551-2366**

Email: **jhughes@oswegoil.org**

3. Type of Applicant (please check any that apply)

☐ Local government

☒ Multijurisdictional group* ➔ Please list the members of the group (including government and nongovernmental organizations):

Village of Oswego

Village of Montgomery

United City of Yorkville

☐ Nongovernmental organization* ➔ Name of local government partner(s):

*Applications submitted by multijurisdictional groups and nongovernmental organizations must include a letter indicating support from each relevant local government. See the FAQs for more information. Nongovernmental applicants are strongly encouraged to contact CMAP or the RTA prior to submitting their application to discuss their project and the demonstration of local support.

4. Project Type (please check any that apply)

Please check all statements below that describe characteristics of your project.

- ☒ My project involves preparation of a plan.
- ☐ My project involves updating an already existing plan.
- ☒ My project helps to implement a past plan.
- ☐ My project links land use, transportation, and housing.
- ☐ My project has direct relevance to public transit and supports the use of the existing transit system.
- ☒ My project is not directly related to transportation or land use, but implements GO TO 2040 in other ways.

5. Local Match Requirement (please initial to indicate you are aware of the local match requirements)

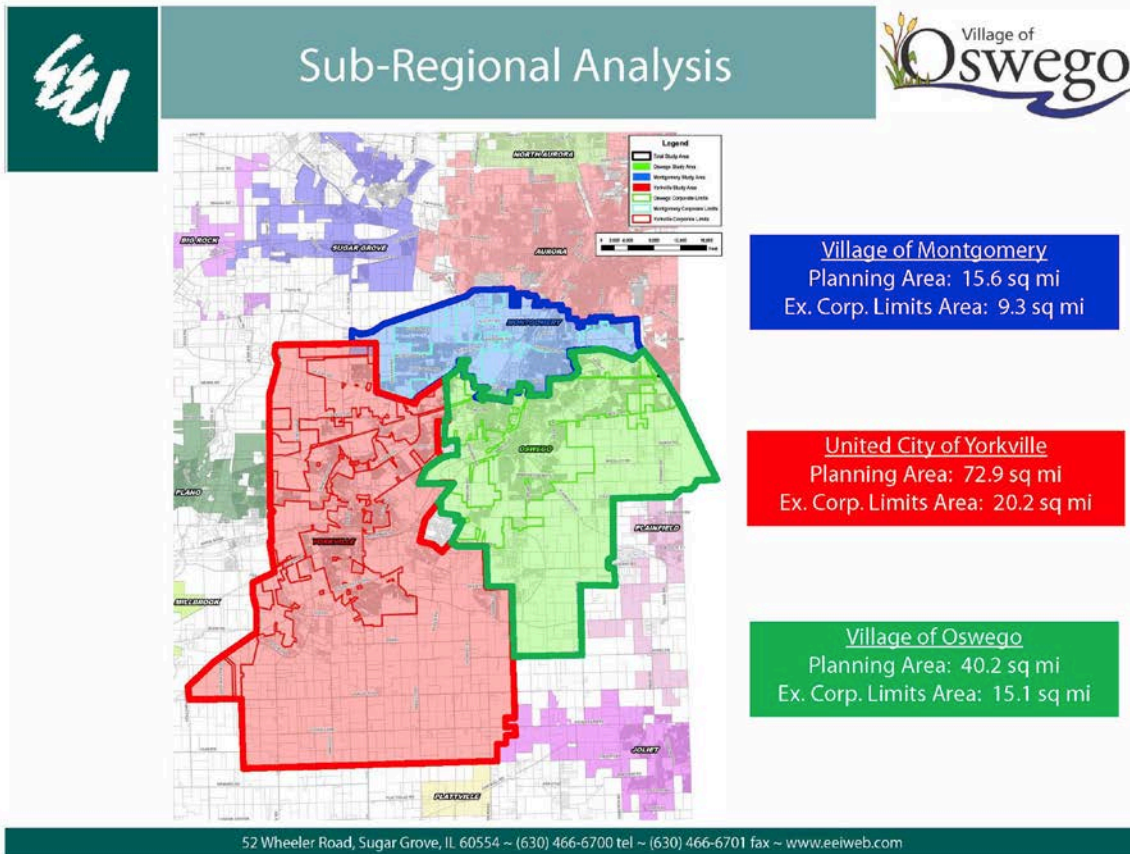
I am aware that a local match will be required for most projects, and understand that if my project is selected it is up to the project applicant to contribute a local match. (See the program guide for further details on local match requirements.)

- ☒ Yes, I understand that applicants will be required to contribute a local match.

6. Project Location

Please provide a brief description of the location of your project. You may include a map if that helps to describe location, but this is not required. If your project helps to implement a past plan, please include a link to that plan.

The project involves three communities combining resources to procure a sustainable water source to support our existing and future population. The three communities are located along the Fox River primarily in Kendall County.



7. Project Description

Please tell us what you would like to do in your community, and what assistance is needed. If you have more than one idea, please submit a separate application for each project. Please be specific, but also brief (less than two pages per project idea)—we simply want to have a basic understanding of what you want to do. For plan updates please tell us how you will be building upon (or replacing) the previous work. Program staff will follow-up with you if we need any additional information to fully understand your proposed project.

The Villages of Oswego and Montgomery, along with the United City of Yorkville, are jointly seeking an alternate water supply to address the dwindling ground water supply. One option is to withdraw water from the Fox River. The 2016 Sub Regional Water Supply Study undertaken by the communities suggests that a joint project where water is drawn by a single plant is not only viable but may be the most cost effective option.

The communities are unsure as to the best way to create a governance structure for this endeavor. We are aware of several options:

- Establish a JAWA independent of the communities
- Create a consortium with board membership appointed by the communities
- Identify a lead community that produces and sells bulk water to the others

- Other

The LTA would explore the pros/cons of the options so that the boards can make an informed decision. Key issues to be addressed include the following:

- Authority to enter agreement/create new organization
- Decision making process
- Dispute resolution
- Funding
 - how costs are apportioned among the communities
 - how organization raises funds for preliminary work (land acquisition, design, construction) before coming on line
- Withdrawal from agreement
- Schedule
- Commitments from communities to perform required internal improvements to make system work

8. Previous Plan Implementation Efforts

Please describe actions you have taken to implement previous plans in your community – whether your efforts were successful or not – to achieve infrastructure improvements, development investment, policy changes, advocacy, volunteer involvement, or other actions. If you do not have experience implementing previous planning work, please describe what you will do to make sure that your plan is implemented. Illustrating a commitment to implement plan recommendations is very important to both agencies as we consider new planning projects.

IN 2014, the Villages of Oswego and Montgomery, along with the United City of Yorkville, partnered with CMAP to research and identify potential opportunities that could be implemented to increase our financial and operational efficiencies through working together. This study set the stage for the current project as the communities recognize the value of working cooperatively to achieve a common goal.

The communities followed up in 2016 with a joint study of the feasibility of utilizing Fox River water as an alternate water supply. The study looked at construction of three plants versus a single, shared plant. The study concludes that a shared plant is a cost effective. The question to be resolved is how to best organize the governance structure for such a project remains.

9. Additional Strategic Partnerships

Please list any additional partners you may want to include in this planning project. Please specify if you have made contact with them in advance of submitting this application.

(Please include any additional information that is relevant, preferably by providing links to online documents.)

Letters of Support from the Villages of Oswego and Montgomery and the United City of Yorkville are attached.



*Daniel W. Di Santo,
Village Administrator*

100 Parkers Mill • Oswego, IL 60543 • (630) 554-2360 • Fax: (630) 551-4854
Website: <http://www.oswegoil.org>

June 23, 2017

Tony Manno, Senior Planner
Chicago Metropolitan Agency for Planning
233 S. Wacker Drive, Suite 800
Chicago, IL 60606

Re: CMAP Local Technical Assistance Program

Dear Tony:

The Village of Oswego is pleased to support the CMAP Local Technical Assistance (LTA) request with the Village of Montgomery and the United City of Yorkville to conduct a joint study of governance structures for a shared water treatment plant. Our three municipalities continue to achieve new levels of efficiency through combined efforts, which have blossomed since the 2013 CMAP LTA shared services study, and we believe this LTA application will take our partnership to the next level.

The 2013 CMAP study was the genesis of a sub-regional water supply and treatment analysis that recommended our three communities work together to plan for a joint Fox River water treatment facility. It is critical that our communities identify a sustainable water source since our ground water supply is projected to deplete over the next few decades. One of the first implementation steps outlined in the analysis is to identify a governance structure for the shared water plant. As such, this LTA application would help our communities move closer towards a solution to our regional water issue.

We thank you for your consideration of this application.

Very Truly Yours,

Daniel W. Di Santo
Village Administrator



Village Board

Matt Brolley
Village President

Penny FitzPatrick
Village Clerk

Trustees:
Stan Bond
Peter Heinz
Steve Jungermann
Denny Lee
Doug Marecek
Theresa Sperling

Staff

Jeff Zoepfel
Village
Administrator

Daniel Meyers
Chief of Police

Todd Hoppenstedt
Dir. of Public Works

Justin VanVooren
Director of Finance

Richard Young
Dir. of Community
Development

June 22, 2017

Tony Manno, Senior Planner
Chicago Metropolitan Agency for Planning
233 South Wacker Drive, Suite 800
Chicago, Illinois 60606

Re: CMAP Local Technical Assistance Program

The Village of Montgomery is pleased to offer this letter of support for the request for Local Technical Assistance by the Villages of Oswego and Montgomery and the United City of Yorkville to conduct a joint study of a governance structure for a shared water treatment plant. In 2013 CMAP provided technical assistance to these same communities for a study that explored opportunities for sharing municipal staff, services and equipment. One of the ideas that grew out of that study was the possibility of a shared water treatment plant. All three municipalities have approved this idea in concept and are now seeking assistance to create a governance structure for this endeavor.

The findings and recommendations of this new study will guide our three communities to provide a sustainable future water supply in order to address concerns about depleting the groundwater that is our current water source. We expect that this study would explore issues such as structure, funding options, schedule, decision making process, dispute resolution and other issues that must be decided by intergovernmental agreement in order to make a joint facility work. As this is a regional concern, we believe that a joint solution between our three municipalities may offer the most efficient and cost-effective benefit to our residents going forward.

Sincerely,

Jeff Zoepfel
Village Administrator



United City of Yorkville
800 Game Farm Road
Yorkville, Illinois 60560
Telephone: 630-553-4350
www.yorkville.il.us

June 26, 2017

Tony Manno, Senior Planner
Chicago Metropolitan Agency for Planning
233 South Wacker Drive, Suite 800
Chicago, IL 60606

Re: CMAP Local Technical Assistance Program

Dear Tony,

The United City of Yorkville is pleased to support the CMAP Local Technical Assistance (LTA) request with the Village of Oswego and Montgomery to conduct a joint study of governance structures for a shared water treatment plant. This is a study that is a natural offshoot of the results of the 2013 CMAP LTA shared services study with Oswego, Montgomery, and Yorkville (OMY).

Since the 2013 study, the staff from OMY has been meeting to discuss different shared service opportunities, including studying the long-term sustainability of the deep-water aquifer that all three communities use. Each community has identified that a jointly-constructed and jointly-operated Fox River water intake plant is our preferred solution for long-term water supply. One of the next steps in this process is to study and discuss governance of the shared OMY water plant. We believe that CMAP, through the LTA process, can be of great assistance in studying other examples of governance.

Sincerely,

Bart Olson
City Administrator



Reviewed By:	
Legal	<input type="checkbox"/>
Finance	<input type="checkbox"/>
Engineer	<input checked="" type="checkbox"/>
City Administrator	<input checked="" type="checkbox"/>
Human Resources	<input type="checkbox"/>
Community Development	<input type="checkbox"/>
Police	<input type="checkbox"/>
Public Works	<input checked="" type="checkbox"/>
Parks and Recreation	<input type="checkbox"/>

Agenda Item Number

New Business #13

Tracking Number

PW 2018-33

Agenda Item Summary Memo

Title: Baseline Road Status

Meeting and Date: Public Works Committee – March 20, 2018

Synopsis: See attached memo.

Council Action Previously Taken:

Date of Action: N/A Action Taken: _____

Item Number: _____

Type of Vote Required: N/A

Council Action Requested: Discussion

Submitted by: Bart Olson Administration
Name Department

Agenda Item Notes:



Memorandum

To: Public Works Committee
From: Bart Olson, City Administrator
CC:
Date: March 15, 2018
Subject: Baseline Road maintenance

Summary

Discussion of Baseline Road condition and maintenance.

Background

This item was requested by Alderman Frieders. He has been contacted by a county resident who lives on the road that would like the City to improve the road through pavement rehab and more frequent snow plowing.

The City's 2016 inspection report is attached for your use. Relevant excerpts from the FY 19 budget proposal memo are as follows:

Unfunded capital projects

1) Baseline Road

- a. One of the worst rated roads in the City. The City has been monitoring the condition of the deck of the bridge for the past year. In the event the bridge inspection comes back unfavorable, the City would proceed forward with closing the road. If the Route 47 north expansion project gets funded by the state, the cost of the bridge replacement would be heavily subsidized by the State.
- b. Cost estimate - \$560,000

Motor Fuel Tax Fund

E1) Baseline Road Bridge Repairs

15-155-60-00-6004

- a. Original estimates on the bridge repair in FY 16 came in much higher than expected, so staff recommended closure of the bridge instead. This item was pushed along through the remainder of FY 16, FY 17, and FY 18 because ongoing bridge inspections have not justified total closure of the bridge. Per the Bridge Inspection Report completed in 2016, the superstructure (surface) is in poor condition, while the substructure is in good condition. The 2016 report did not indicate an immediate need to close the bridge based on structural/safety concerns. Inspections are scheduled once every two years, per IDOT policy, and the next inspection will occur in summer 2018. If the inspection comes back with an issue, we would recommend proceeding forward with bridge closure. Until then, we recommend leaving the bridge as-is until the State expands Route 47 in the area.

Recommendation

This is an informational item.

City of Yorkville

2016 Bridge Inspection Report

Four Bridges

PREPARED FOR:

City of Yorkville, Illinois
c/o: Brad Sanderson, PE
Engineering Enterprises, Inc.
52 Wheeler Road
Sugar Grove, IL 60554

October 2016
Benesch Project No. 10170.06



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1.4 SN 047-3160 – Bristol Ridge over Blackberry Creek	22

SECTION 2.0 IDOT Bridge Inspection Forms

Routine Inspection Report (BBS-BIR) – 4 Bridges
Inspector's Inventory Report (S-114) – 4 Bridge
Bridge File Checklist (BBS-BFC) – 1 Bridge

SECTION 1.0 BRIDGE INSPECTION REPORTS

1.1 SN 045-3044 – Baseline Road over Rob Roy Creek

1. Structure Description

Built in 1966, this structure consists of a single span bridge carrying one lane of traffic in each the eastbound and westbound direction. The structure has a total length of 30.0 feet (back to back of abutments) and a total deck width of 26.0 feet. The substructure is skewed 5° left ahead relative to the roadway above. The creek flows from north to south.

The superstructure consists of a 15" reinforced concrete deck slab, 1 foot high curbs and side mounted guardrails. There are three open drains along each gutter line. No expansion joints are present. The substructure consists of tall concrete abutments with weep holes and flared wingwalls. There is a sheet pile retaining wall off of the northeast corner of the structure. Overhead utilities run parallel to the direction of traffic to the south and cross the roadway near the West Abutment. A signalized intersection is immediately to the east of the structure.

Existing plans are not available for this structure.

2. Repair History

The northern bridge guardrail was repaired in 2012, otherwise, the repair history of the bridge is unknown.

3. Key Items from IDOT's Current Master Structure Report (S-107)

Item	Value
Sufficiency Rating	28.4
HBP Eligible	Yes
Inventory Rating	0.540
Operating Rating	0.900
Structurally Deficient	Yes
Functionally Obsolete	Yes
Bridge Posting Level	Legal Load Only
Current Average Daily Traffic (ADT)	2,150 (Yr. 2015)
Current Estimated Trucks Percentage (ADTT)	1%
On National Highway System (NHS)	No

4. Inspection History and NBIS Condition Ratings – Recent Ratings

Date	Deck	Super	Sub
08/31/2010	6	6	7
08/30/2012	4	4	7
08/20/2014	4	4	7
08/10/2016	4	4	7

5. Inspection Type, Method and Equipment

This bridge is on a 24-month inspection interval and Benesch performed the NBIS Routine Inspection on August 10, 2016. A visual inspection was done on all elements of the bridge. Some concrete areas were also sounded to check for delaminations. No specialized equipment was required (e.g. snooper, ladder, etc.). Waders were worn for easier access across the creek. The weather was sunny with an ambient temperature of 90°F.

6. Inspection Observations

The existing superstructure is in poor condition while the substructure is in good condition. The top of slab has several full length narrow longitudinal cracks and multiple spalls with failing patches. Many of the existing spalls are also surrounded by delaminated concrete. On the underside of the slab, there is dampness, spalls and delamination around all six of the open deck drains, some of which have exposed corroding rebar. Along the center of the structure, there are signs of delaminated concrete along the length of the span (top and bottom of slab). The total area of defects in the slab is approximately 35%; see exhibit after the Recommendations section for additional details of slab defects. The approaching pavement adjacent to the structure is also heavily deteriorated.

The curb along the northern edge of the structure remains damaged from the impact to the guardrail that was originally mentioned in the 2012 inspection report. The guardrail that was damaged has since been replaced. Approximately 20 feet of the concrete curb, measured from the east end of the deck, is cracked with exposed rebar. The southeast corner of the curb is also spalls with exposed rebar. There is debris accumulating at both gutter lines. A post for an object marker sign has been knocked over in the southwest corner of the structure.

Both abutments are in good condition and the weep holes appear clear of debris. Both abutments have hairline vertical cracks at 5'-10' spacing. There is dampness and rust stains on the East Abutment at the bearing seat and leaching near the north end of the abutment. This structure does not have a name plate.

7. Recommendations

High Priority:

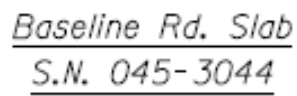
- Repair deck with partial and full depth patches - full slab replacement may be more cost effective

Medium Priority

- Repair/replace northern curb (approximately eastern 20 feet)
- Patch spall on southeast corner of curb
- Replace object marker sign

Low Priority:

- Remove debris from along gutter line
- Add name plate to bridge or spray paint structure number on wingwall





Elevation Looking North



Section Looking East



Top of Deck Showing Spalls with Failing Patches



Spalls with Failing Patches at East End of Deck (West End Similar)



Debris, Spalls with Exposed Rebar and Delaminations in North Curb



Northeast corner of Curb with Spall Exposing Rebar



Object Marker Sign Knocked Down Southwest Corner



Typical Delamination Surrounding Deck Drain Opening



Damp Concrete and Leaching on Underside of Deck



East Abutment Elevation with Dampness and Rust Stains

1.2 SN 047-3106 – Faxon Road over Rob Roy Creek

1. Structure Description

Built in 1976, this structure consists of a large single cell elliptical corrugated metal arch culvert carrying two lanes of east-west traffic. The structure has a maximum cell width of 31.0 feet and maximum cell height of 10.0 feet. The bridge roadway has a total width of 30.0 feet. There is approximately 3.0 feet of fill above the top of the culvert with hot-mix asphalt pavement and guardrail. The structure is not skewed relative to the roadway. Triangular concrete thrust beams extending the full length are located at mid-height on the outside of the culvert. The creek flows from north to south. Overhead utilities run parallel to the direction of traffic to the north and south.

Existing plans are not available for this structure.

2. Repair History

The repair history of the structure is unknown.

3. Key Items from IDOT's Current Master Structure Report (S-107)

Item	Value
Sufficiency Rating	91.4
HBP Eligible	No
Inventory Rating	0.750
Operating Rating	1.250
Structurally Deficient	No
Functionally Obsolete	No
Bridge Posting Level	No Posting Required
Current Average Daily Traffic (ADT)	175 (Yr. 2006)
Current Estimated Trucks Percentage (ADTT)	2%
On National Highway System (NHS)	No

4. Inspection History and NBIS Condition Ratings – Recent Ratings

Date	Culvert
08/31/2010	5
08/30/2012	6
08/20/2014	6
08/10/2016	6

5. Inspection Type, Method and Equipment

This bridge is on a 24-month inspection interval and Benesch performed the NBIS Routine Inspection on August 10, 2016. A visual inspection was done on all elements of the bridge. No specialized equipment was required (*e.g.* snooper, ladder, etc.). Waders were worn for easier access across the creek. The weather was sunny with an ambient temperature of 79°F.

6. Inspection Observations

The existing structure is overall in satisfactory condition. On the inside of the culvert, there is minor section loss at the waterline at the center of the structure, rust and leaching along the longitudinal panel joints and minor section loss at the intersection of transverse and longitudinal panel joints. Sediment is depositing along the east edge of the structure and there are branches slightly impeding the flow of the creek immediately upstream of the structure. The hot-mix asphalt pavement is in good condition. Trees are beginning to encroach on the roadway in the northeast corner and vegetation is obstructing the north edge of pavement and guardrail. The bridge is missing a name plate.

7. Recommendations

Medium Priority

- Clear branches from creek upstream of the structure
- Trim trees encroaching on roadway in northeast corner & cut back vegetation along north edge of the roadway

Low Priority

- Monitor east edge of culvert for increased sediment deposits
- Monitor section loss at waterline and intersection of panel joints
- Add name plate to bridge or spray paint structure number on culvert extension



Elevation Looking North



Cross Section Looking West



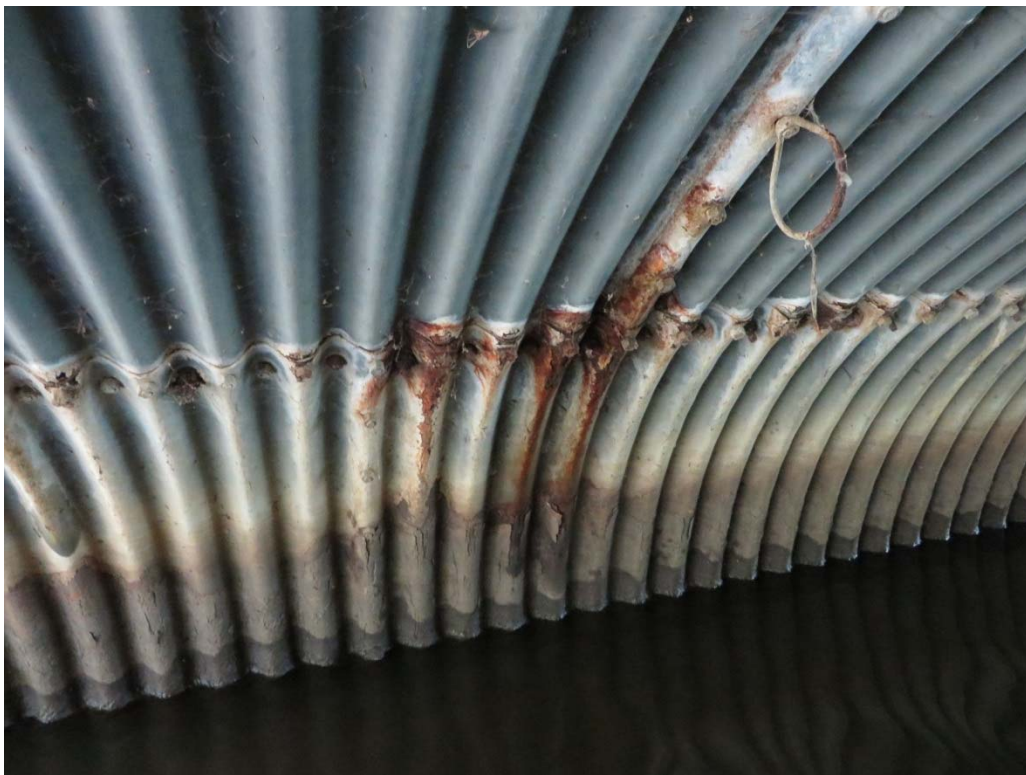
Typical Inside of Culvert Looking South



Concrete Thrust Beams Full Length of Culvert (Both Sides)



Typical Minor Section Loss at Waterline



Corrosion & Section Loss at Intersection of Longitudinal & Transverse Panel Joints (typical)



Sediment Build-up along East Edge of the Culvert



Branches Impeding Flow just Upstream (North) of Culvert

1.3 SN 047-3155 – Corneils Road over Rob Roy Creek

1. Structure Description

Built in 1999, this structure consists of a single span bridge carrying one lane of traffic in each the eastbound and westbound direction. The structure has a total length of 71.4 feet (back to back of abutments) and a total deck width of 30.0 feet. The substructure is skewed 10° left ahead relative to the roadway above. The creek flows from north to south.

The superstructure consists of ten 27" deep, side-by-side, PPC deck beams with side mounted type "S1" steel rails. No wearing surface is present. The open concrete abutments have dog-eared wingwalls (SW and NE) and flared wingwalls (NW and SE) and riprap slopewalls. Overhead utilities run parallel to the direction of traffic to the south.

Existing plans are available for this structure.

2. Repair History

The repair history of the structure is unknown.

3. Key Items from IDOT's Current Master Structure Report (S-107)

Item	Value
Sufficiency Rating	87.9
HBP Eligible	No
Inventory Rating	1.000
Operating Rating	1.360
Structurally Deficient	No
Functionally Obsolete	No
Bridge Posting Level	No Posting Required
Current Average Daily Traffic (ADT)	375 (Yr. 2015)
Current Estimated Trucks Percentage (ADTT)	26%
On National Highway Systems (NHS)	No

4. Inspection History and NBIS Condition Ratings – Recent Ratings

Date	Deck	Super	Sub
09/02/2010	7	6	8
08/31/2012	6	6	8
8/20/2014	5	5	8
08/10/2016	5	5	8

5. Inspection Type, Method and Equipment

This bridge is on a 24-month inspection interval and Benesch performed the NBIS Routine Inspection on August 10, 2016. A visual inspection was done on all elements of the bridge. Some concrete areas were also sounded to check for delaminations. A rotary percussion tool was used to sound portions of the bottom of the deck beams and waders were worn for easier access across the creek. The weather was sunny with an ambient temperature of 85°F.

6. Inspection Observations

The existing superstructure is in fair condition while the substructure is in very good condition. The top of the beams have several spalls, most with exposed stirrups. Numbering the beams 1 thru 10 from north to south, Beams 4 and 5 each have a 1'x1' spall with an exposed stirrup; Beam 8 has a 2'x width of the beam spall with two exposed stirrups; and Beam 9 has four 1'x1' spalls with an exposed stirrup each, another 1'x1' spall and a 2'x width of the beam spall. Typically there is shear key grout missing between beams and leakage and efflorescence was noted on the underside of all of the beams. There is differential movement between a couple adjacent beams. Beam 2 is higher than Beam 1 in the middle; Beam 3 is lower than both Beam 2 and Beam 4; Beam 7 is lower than Beam 6; and Beam 10 is lower than Beam 9 in the east half of the bridge.

The lane lines on the structure have faded and are no longer visible. The bituminous roadway pavement at the abutment at both ends of the bridge has been repaved since the 2014 inspection. No issues were noted with the bridge rails, abutments, wingwall or slopewalls. The creek is impeded by debris upstream of the structure.

7. Recommendations

Medium Priority:

- Patch the spalls on the riding surface
- Remove blockage from the creek upstream of the structure
- Repaint lane lines

Low Priority:

- Monitor differential deflections between beams



Name Plate



Elevation Looking North



Cross Section Looking West



Spalls with Exposed Stirrups (SW Corner Shown)



Differential Movement between Adjacent Beams



Leaching on Underside of Beams at Shear Keys



Elevation West Abutment



Debris in Creek Upstream (North) of Structure

1.4 SN 047-3160 – Bristol Ridge over Blackberry Creek

1. Structure Description

Constructed in 2003, this structure consists of a two span bridge carrying one lane of traffic in each the northbound and southbound direction. The structure has a total length of 154.4 feet (back-to-back of abutments) and a total deck width of 33.2 feet. The substructure is not skewed relative to the roadway above. The creek flows from east to west.

The superstructure consists of five W30x173 weathering steel beams with a 7½" reinforced concrete deck. There are 30 foot long approach slabs, F-shape parapets, guardrail in all four corners and two scuppers per gutter line. The pier has fixed low-profile bearings. Overhead utilities run parallel to the direction of traffic to the west.

The substructure consists of integral abutments and dog-eared wingwalls and a wall pier all founded on piles. The abutments have riprap slopewalls. There is a sheet pile wall parallel to the northeast wingwall offset approximately 5 feet from the face of the wingwall.

Existing plans are available for this structure.

2. Repair History

The repair history of this structure is unknown.

3. Key Items from IDOT's Current Master Structure Report (S-107)

Item	Value
Sufficiency Rating	94.8
HBP Eligible	No
Inventory Rating	1.000
Operating Rating	1.360
Structurally Deficient	No
Functionally Obsolete	No
Bridge Posting Level	No Posting Required
Current Average Daily Traffic (ADT)	1,450 (Yr. 2015)
Current Estimated Trucks Percentage (ADTT)	8%
On National Highway System (NHS)	No

4. Inspection History and NBIS Condition Ratings – Recent Ratings

Date	Deck	Super	Sub
08/08/2005	8	8	8
05/16/2008	8	8	8
05/16/2012	7	8	8
05/23/2016	7	8	8

5. Inspection Type, Method and Equipment

This bridge is on a 48-month inspection interval and Benesch performed the NBIS Routine Inspection on May 23, 2016. A visual inspection was performed on all elements of the bridge. Some concrete areas were also sounded to check for delaminations. Waders were required to access the underside of the bridge due to water levels at the time of inspection. No other specialized equipment was required (e.g. snoopers, ladders, etc.). The weather was sunny with an ambient temperature of 84°F.

6. Inspection Observations

The existing structure is overall in good condition. The top of deck has hairline transverse cracks over the pier and a small spall in the middle of the roadway near the North Abutment. The underside of the deck in the North Span has a few hairline transverse cracks. The approach slabs have hairline diagonal and narrow longitudinal cracks. The south approach pavement has minor cracking near the approach slab. The parapets have hairline vertical cracks at 3-5' spacing and the surface is flaking off. The guardrail in the southeast corner of the structure is missing a couple of the wood blocks between the rail and posts. Vegetation is beginning to encroach on the shoulder in the southwest corner of the structure. No issues were noted with the scuppers, beams or bearings.

No issues were noted with the abutments, pier or wingwalls. The north slopewall is missing riprap on the lower half of the wall. The channel in the South Span is blocked with mud build-up and there is a sandbar upstream of the pier.

7. Recommendations

Medium Priority

- Replace riprap on north slopewall

Low Priority

- Seal cracks in approach slabs
- Trim vegetation back in southwest corner
- Clear sandbar from channel and mud buildup from South Span



Name Plate



Cross Section Looking North



Elevation Looking West (1 of 2)



Elevation Looking West (2 of 2)



Narrow Longitudinal Cracks in South Approach Slab



Surface Flaking on Parapet (typical)



Typical Superstructure and Underside of Deck



Pier Elevation Looking South



North Slopewall with Missing Riprap



Mud Blocking Creek in South Span

SECTION 2

BRIDGE INSPECTION FORMS



SN: 045-3044	District: 3	Spans: 1	Appr. Spans: 0	Skew: 5	ADT: 2150	Truck Pct: 1
ADT Un:	Maint. Co: KENDALL	Twsp: BRISTOL	Status: OPEN - NO RESTRICT			
Facility Carried	BASELINE RD/MS 1993A		Feature Crossed:	ROB ROY CREEK		
Location	0.01 MI W OFRT47	Municipality: YORKVILLE	Team/Sub	/ N/N	Insp/Rte:	N
Bridge Name:	BURTON BRIDGE		Material & Type:	CONCRETE/SLAB		
Insp. Intervals Routine:	24	Fracture Critical:	0	Underwater:	0	Special: N/A
		Element Level:	24			

90 – Inspection Date:	08 / 10 / 16	90C – Temp. (°F)	+90	90B1 – In-Depth	<input type="checkbox"/>	
Is Delinquent:	<input type="checkbox"/>	Reason:				
90A – Agency Program Manager:	Bendok (Benesch) 3		90A3 – Consultant Program Manager:	Bendok (Benesch) 3		
90A1 – Team Leader:	Soehrman (Benesch) 2		90A2 – Inspector:	Zacker (Benesch)		

90B – Inspection Remarks:

Previous Inspection	33% of deck spalled/delaminated. Underside of deck delam. around deck drains. N. curb cracked /spalled over 60% of length and spalls w/ exp. rebar on E corner of both curbs. Debris collecting at gutterlines. Missing name plate.
---------------------	---

Resources

Time to Insp (H:M):	0:0	1:00	Traffic Control:		N	Boat:		N	Waders:		Y	Snooper:		N	
Ladder:		N	Manlift:		N	Bucket Truck:		N	Other:						

Inspector's Appraisals

	Prev	New	Comments
58 – Deck Condition:	4	4	approx. 35% delam/spall/crack
59 – Superstructure Cond:	4	4	approx. 35% delam/spall/crack
60 – Substructure Cond:	7	7	HL vert cr at 5'-10' spa
62 – Culvert Condition:	N	N	
61 – Channel Condition:	7	7	
71 – Waterway Adequacy:	7	7	
72 – Approach Rdw Align:	8	8	
111 – Pier Navig Protection:	N	N	

90B – Inspector Remarks:

Approx. 35% delam/spall/crack in slab. N curb spall/cr 60% of length. Debris collecting in gutterline. HL vert cr at 5'-10' spa in abuts. No name plate.

Routine Inspection Report

Structure Number 0453044

Additional Inspection Data

36A – Bridge Railing Adequacy:	Prev 1	New 2	Rail Types:	Prev	New	Prev	New	Prev	New
Approach Guardrail Adequacy:	36B – Transitions:	1	1	36C – Guardrail:	1	1	36D – Ends:	1	1

108A – Wearing Surface Type:	Prev A	New A	If "L-Other" Describe:
108B – Type of Membrane:	Prev F	New F	If "E-Other" Describe:
108C – Deck Protection:	Prev J	New J	If "I-Other" Describe:
108D – Total Deck Thickness (in):	15.0	15.0	

59A – Paint Date (Mo/Yr):	Prev	New N/N
59B – Paint Type:	Prev	New N




Color: Fascia - ____: Inter. - ____: Railing - ____.

59C – Utilities Attached:	NNN	____	If "B-Other" Describe
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Weight Limit Posting:	70A2 – Single Unit Vehicles:	Prev	New	Ton
	70B2 – Combination Type 3S-1 (3 or 4 axles):			Ton
	70C2 – Combination Type 3S-2 (5 or more axles):			Ton
	70D2 – One Truck at a Time:	0		

Joint Openings (In.) N

90B – Inspector Remarks Continued:

	Signature	Date
Inspection Team Leader:		08 / 31 / 16
Consultant Program Manager:		09 / 14 / 16
Agency Program Manager:		09 / 14 / 16



SN: 047-3106	District: 3	Spans: 1	Appr. Spans: 0	Skew: 0	ADT: 175	Truck Pct: 2
ADT Un:	Maint. Co: KENDALL	Twsp: BRISTOL	Status: OPEN - NO RESTRICT			
Facility Carried: FAXON RD/MS 3210	Feature Crossed: ROB ROY CK					
Location: 1 MI W OF CANNONBALL	Municipality: YORKVILLE	Team/Sub: /N/N	Insp/Rte: N			
Bridge Name: FAXON	Material & Type: STEEL/CULVERT					
Insp. Intervals Routine: 24	Fracture Critical: 0	Underwater: 0	Special: N/A	Element Level: 24		

90 – Inspection Date: 08 / 10 / 16	90C – Temp. (°F): +79	90B1 – In-Depth	<input type="checkbox"/>
Is Delinquent: <input type="checkbox"/>	Reason:		
90A – Agency Program Manager: Bendok (Benesch) 3	90A3 – Consultant Program Manager: Bendok (Benesch) 3		
90A1 – Team Leader: Soehrman (Benesch) 2	90A2 – Inspector: Zacker (Benesch)		

90B – Inspection Remarks:

Previous Inspection	Sediment build-up on E. edge of culvert. Branches in channel immediately N. of structure. Minor section loss at waterline
	Missing name plate.

Resources

Time to Insp (H:M): 0:0	0:40	Traffic Control: N	Boat: N	Waders: Y	Snooper: N
Ladder: N	Manlift: N	Bucket Truck: N	Other:		

Inspector's Appraisals

	Prev	New	Comments
58 – Deck Condition:	N	N	
59 – Superstructure Cond:	N	N	
60 – Substructure Cond:	N	N	
62 – Culvert Condition:	6	6	rust & leaching @ long. panel jts & minor SL @ intersecting long. & trans. panel jts
61 – Channel Condition:	6	6	few branches in channel upstream & sediment buildup along E edge of culvert
71 – Waterway Adequacy:	6	6	
72 – Approach Rdw Align:	8	8	
111 – Pier Navig Protection:	N	N	

90B – Inspector Remarks:

Rust & leaching @ long. panel jts & minor SL @ intersecting long. & trans. panel jts . Few branches in channel upstream & sediment buildup along E edge of culvert. No name plate.

Routine Inspection Report

Structure Number 0473106

Additional Inspection Data

36A – Bridge Railing Adequacy:	Prev	New	Rail Types:								
	1	N									
Approach Guardrail Adequacy:	Prev	New	36B – Transitions:	Prev	New	36C – Guardrail:	Prev	New	36D – Ends:	Prev	New
			2	N		2	2		2	2	

108A – Wearing Surface Type:	Prev	New	If "L-Other" Describe:
	N	N	
108B – Type of Membrane:	Prev	New	If "E-Other" Describe:
	N	N	
108C – Deck Protection:	Prev	New	If "I-Other" Describe:
	N	N	
108D – Total Deck Thickness (in):	0.0	N	


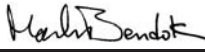

59A – Paint Date (Mo/Yr):	Prev	New	
		N/N	
59B – Paint Type:		N	_____

59C – Utilities Attached:	NNN		If "B-Other" Describe _____

Weight Limit Posting:	70A2 – Single Unit Vehicles:	Prev	New	
	70B2 – Combination Type 3S-1 (3 or 4 axles):			Ton
	70C2 – Combination Type 3S-2 (5 or more axles):			Ton
	70D2 – One Truck at a Time:	0		

Joint Openings (In.) N

90B – Inspector Remarks Continued:

	Signature	Date
Inspection Team Leader:		09 / 01 / 16
Consultant Program Manager:		09 / 14 / 16
Agency Program Manager:		09 / 14 / 16



SN: 047-3155	District: 3	Spans: 1	Appr. Spans: 0	Skew: 10	ADT: 375	Truck Pct: 26
ADT Un:	Maint. Co: KENDALL	Twsp: BRISTOL	Status: OPEN - NO RESTRICT			
Facility Carried	Corneils Rd/MS 3200		Feature Crossed: ROB ROY CREEK			
Location	IN YORKVILLE	Municipality: YORKVILLE	Team/Sub: /N/N	Insp/Rte: N		
Bridge Name:			Material & Type: PRESTRESS CONCRETE/BOX BEAM OR GIRDER-MULTI			
Insp. Intervals Routine:	24	Fracture Critical: 0	Underwater: 0	Special: N/A	Element Level: 24	

90 – Inspection Date:	08 / 10 / 16	90C – Temp. (°F): +85	90B1 – In-Depth	<input type="checkbox"/>	
Is Delinquent:	<input type="checkbox"/>	Reason:			
90A – Agency Program Manager:	Bendok (Benesch) 3		90A3 – Consultant Program Manager:	Bendok (Benesch) 3	
90A1 – Team Leader:	Soehrman (Benesch) 2		90A2 – Inspector:	Zacker (Benesch)	

90B – Inspection Remarks:

Previous Inspection	No overlay; several top spalls with exposed rebar; leaching full length of structure and differential deflection between adjacent beams; branches/dam blocking creek immediately N of structure.

Resources

Time to Insp (H:M):	0:0	1:00	Traffic Control:		N	Boat:		N	Waders:		Y	Snooper:		N	
Ladder:		N	Manlift:		N	Bucket Truck:		N	Other:						

Inspector's Appraisals

	Prev	New	Comments
58 – Deck Condition:	5	5	no overlay

59 – Superstructure Cond:	5	5	All keyways leaking & differential movement b/n bms is evident. Few spalls exp stirrups t/ bms
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60 – Substructure Cond:	8	8	
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62 – Culvert Condition:	N	N	
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61 – Channel Condition:	5	6	debris upstream partially restricting flow
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71 – Waterway Adequacy:	8	8	
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72 – Approach Rdw Align:	8	8	
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111 – Pier Navig Protection:	N	N	
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90B – Inspector Remarks:

All keyways leaking & differential movement b/n bms is evident. Few spalls w/ exp stirrups in t/ bms. Debris upstream partially restricting flow.

Routine Inspection Report

Structure Number 0473155

Additional Inspection Data

36A – Bridge Railing Adequacy:	Prev 3	New 3	Rail Types:	Prev 3	New 3	36C – Guardrail:	Prev 3	New 3	36D – Ends:	Prev 3	New 3
Approach Guardrail Adequacy:	36B – Transitions:	3	3	36C – Guardrail:	3	3	36D – Ends:	3	3		

108A – Wearing Surface Type:	Prev A	New A	If "L-Other" Describe:
108B – Type of Membrane:	Prev F	New F	If "E-Other" Describe:
108C – Deck Protection:	Prev J	New J	If "I-Other" Describe:
108D – Total Deck Thickness (in):	27.0	27.0	

59A – Paint Date (Mo/Yr):	Prev	New N/N
59B – Paint Type:	Prev	New N




Color: Fascia - ____: Inter. - ____: Railing - ____.

59C – Utilities Attached:	NNN	____	If "B-Other" Describe
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Weight Limit Posting:	70A2 – Single Unit Vehicles:	Prev	New
	70B2 – Combination Type 3S-1 (3 or 4 axles):		Ton
	70C2 – Combination Type 3S-2 (5 or more axles):		Ton
	70D2 – One Truck at a Time:	0	

Joint Openings (In.) N

90B – Inspector Remarks Continued:

	Signature	Date
Inspection Team Leader:		09/ 01 / 16
Consultant Program Manager:		09/ 14 / 16
Agency Program Manager:		09/ 14 / 16



SN:	047-3160	District:	3	Spans:	2	Appr. Spans:	0	Skew:	0	ADT:	1450	Truck Pct:	8
ADT Un:		Maint. Co:	KENDALL	Twsp:	BRISTOL	Status:	OPEN - NO RESTRICT						
Facility Carried	FAU1555/BRISTOL RIDG					Feature Crossed:	BLACKBERRY CREEK						
Location	.25 MI NW KENNEDY RD			Municipality:	YORKVILLE			Team/Sub	/ N/N		Insp/Rte:	N	
Bridge Name:						Material & Type:	STEEL CONTINUOUS/STRINGER/MULTI-BEAM/GIRDER						
Insp. Intervals Routine:	48	Fracture Critical:	0	Underwater:	0	Special:	N/A		Element Level:	48			

90 – Inspection Date:	05 / 23 / 16	90C – Temp. (°F)	+84	90B1 – In-Depth	<input type="checkbox"/>
Is Delinquent:	<input type="checkbox"/>	Reason:			
90A – Agency Program Manager:	Bendok (Benesch) 3		90A3 – Consultant Program Manager:	Bendok (Benesch) 3	
90A1 – Team Leader:	Soehrman (Benesch) 2		90A2 – Inspector:	Bendok (Benesch) 3	

90B – Inspection Remarks:

Previous Inspection	FULL WIDTH TRANSVERSE CRACKS (<0.06") AT 5 FT INTERVALS NEAR PIER

Resources

Time to Insp (H:M):	0:0	1:00	Traffic Control:		N	Boat:		N	Waders:		Y	Snooper:		N
Ladder:		N	Manlift:		N	Bucket Truck:		N	Other:					

Inspector's Appraisals

	Prev	New	Comments
58 – Deck Condition:	7	7	HL trans cr over pier

59 – Superstructure Cond:	8	8	
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60 – Substructure Cond:	8	8	
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62 – Culvert Condition:	N	N	
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61 – Channel Condition:	8	7	
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71 – Waterway Adequacy:	9	9	
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72 – Approach Rdw Align:	8	8	
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111 – Pier Navig Protection:	N	N	
------------------------------	---	---	--

90B – Inspector Remarks:

HL trans cr over pier. N slopewall missing some riprap. S span filled with silty mud preventing creek from flowing through span.

Routine Inspection Report

Structure Number 0473160

Additional Inspection Data

36A – Bridge Railing Adequacy:	Prev	New	Rail Types:								
	3	3									
Approach Guardrail Adequacy:	Prev	New	36B – Transitions:	Prev	New	36C – Guardrail:	Prev	New	36D – Ends:	Prev	New
				3	3		3	3		3	3

108A – Wearing Surface Type:	Prev	New	If "L-Other" Describe: _____	
	A	A		
108B – Type of Membrane:	Prev	New		If "E-Other" Describe: _____
	F	F		
108C – Deck Protection:	Prev	New	If "I-Other" Describe: _____	
	A	A		
108D – Total Deck Thickness (in):	Prev	New		
	7.5	7.5		




59A – Paint Date (Mo/Yr):	Prev	New	Color: Fascia - ____: Inter. - ____: Railing - ____.
		N/N	
59B – Paint Type:	Prev	New	
		N	

59C – Utilities Attached:	Prev	New	If "B-Other" Describe _____
	NNN		

Weight Limit Posting:	70A2 – Single Unit Vehicles:	Prev	New	Ton
	70B2 – Combination Type 3S-1 (3 or 4 axles):			Ton
	70C2 – Combination Type 3S-2 (5 or more axles):			Ton
	70D2 – One Truck at a Time:	0		

Joint Openings (In.) N

90B – Inspector Remarks Continued:

	Signature	Date
Inspection Team Leader:		08 / 31 / 16
Consultant Program Manager:		09 / 14 / 16
Agency Program Manager:		09 / 14 / 16

Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)

Date: 9/1/2016

Structure Number: 045-3044

District: 3
Municipality: YORKVILLE
Facility Carried: BASELINE RD/MS 1993A
Feature Crossed: ROB ROY CREEK
(21) Maintenance Resp: MUNICIPALITY
Other Resp:
(22A) Reporting Agency: MUNICIPALITY
Other Reporting Agcy:
(41) Bridge Status: 1 (OPEN - NO RESTRICT)
(41A) Status Date: 04/1988
(41B) Status Remarks:

Maintenance County: KENDALL
Maint Township: BRISTOL
Bridge Name: BURTON BRIDGE
Location: 0.01 MI W OFRT47
Other Sec Resp:

Item No. / Name	Construction Information	
	Original	Existing Values Reconstruction
(27/27A) Year/Type:	1966	
(27B) Route:		
(27C) Section:		
(27D) Station:	6+10	
(27E) Contract :		
(27F) Project:	00000000000	
(27G) Built By:	COUNTY AGENCY	

(42) Service On/Under: 1 HIGHWAY 5 WATERWAY
Other Service On: Other Service Under:

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(101) Parallel Designation:	N	_____	(49) Structure Length (Ft.):	30.0	_____
Parallel SN:		_____	(112) AASHTO Bridge Length (Ft.):	27.7	_____
(35) Structure Flared:	0	_____	(51) Bridge Roadway Width (Ft.):	24.0	_____
(31) Design Load:	03	_____	(32) Approach Roadway Width (Ft.):	24.0	_____
(31A) Struct Steel Weight (Lbs.):	0	_____	(52) Deck Width (Ft.):	26.0	_____
(60A/B) Substr Matrl:	5N	_____	(48) Length of Longest Span (Ft.):	29.0	_____
(8A1) Bridge Remarks (Existing):	IN YORKVILLE DUE TO ANNEXATIONS.	_____	(107/A) Deck Type/Thickness (In.):	A 15.0	_____/_____
Bridge Remarks (Revised):		_____	Other Deck Type:		
		_____	(45/6) Nbr Spans Main/Approach:	1 0	_____/_____
		_____	(43A/B) Main Span Material/Type:	1 01	_____/_____
Border Bridge Remarks:			Other Span Material:		
			(44AN/BN) Near Appr Span Matrl/Type #1:		_____/_____
			(44AN/BN) Near Appr Span Matrl/Type #2:		_____/_____
			(44AF/BF) Far Appr Span Matrl/Type #1:		_____/_____
			(44AF/BF) Far Appr Span Matrl/Type #2:		_____/_____

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(34A) Skew Dir/Angle (DEG):	L / 5	_____/_____	(36E) Guardrails On - Right:	0	_____
(33) Bridge Median Type:	0	_____	(36F) Guardrails On - Left:	0	_____
(33A) Bridge Median Width (Ft):	0	_____	(55B1) RR Lateral Underclearance (Ft.):	0.0	_____
(38) Navigation Control:	0	_____	(54B3) RR Vert Underclearance (Ft. - In.):	0 - 0	_____-_____
(39) Navigation Vert Clear (Ft):	0	_____	(62A) Culvert Cells (Count):	0	_____
(40) Navigation Horiz Clea (Ft):	0	_____	(62B) Culvert Cell Width (Ft.):	0.00	_____
(50A) Sidewalk Width On - Right (Ft):	0.0	_____	(62C) Culvert Cell Height (Ft.):	0.00	_____
(50B) Sidewalk Width On - Left (Ft):	0.0	_____	(62D) Culvert Cell Opening Area (Sq. Ft.):	0.0	_____
(50C) Sidewalks Under Structure:	0	_____	(62E) Culvert Fill Depth (Ft.):	0.0	_____

**Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)**

Date: 9/1/2016

<u>Key Route On</u>		
<u>Item No. / Name</u>	<u>Existing Values</u>	<u>Revisions</u>
(28) Number Of Lanes:	2	_____
(102) One Or Two Way Traffic:	2	_____
<u>South Or East</u>		<u>North Or West</u>
<u>Value</u>	<u>Revisions</u>	<u>Value</u> <u>Revisions</u>
(47) Max Rdwy Width (Ft.):	24.0	_____
(47A/B) Horizontal (Ft.):	25.9	25.5

KR On Remarks:

<u>Key Route Under</u>		
<u>Item No. / Name</u>	<u>Existing Values</u>	<u>Revisions</u>
(28) Number Of Lanes:		_____
(102) One Or Two Way Traffic:		_____
<u>South Or East</u>		<u>North Or West</u>
<u>Value</u>	<u>Revisions</u>	<u>Value</u> <u>Revisions</u>
(47) Max Rdwy Width (Ft.):	_____	_____
(47A/B) Horizontal (Ft.):	_____	_____
(55B/56) Min Lateral:	_____	_____

KR Under Remarks:

Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)

Date: 9/1/2016

Structure Number: 047-3106

District: 3
Municipality: YORKVILLE
Facility Carried: FAXON RD/MS 3210
Feature Crossed: ROB ROY CK
(21) Maintenance Resp: MUNICIPALITY
Other Resp:
(22A) Reporting Agency: MUNICIPALITY
Other Reporting Agcy:
(41) Bridge Status: 1 (OPEN - NO RESTRICT)
(41A) Status Date: 04/1988
(41B) Status Remarks:

Maintenance County: KENDALL
Maint Township: BRISTOL
Bridge Name: FAXON
Location: 1 MI W OF CANNONBALL
Other Sec Resp:

Item No. / Name	Construction Information	
	Original	Existing Values Reconstruction
(27/27A) Year/Type:	1976	
(27B) Route:	TWP0021	
(27C) Section:		
(27D) Station:		
(27E) Contract :		
(27F) Project:	00000000000	
(27G) Built By:	COUNTY AGENCY	

(42) Service On/Under: 1 HIGHWAY 5 WATERWAY
Other Service On: Other Service Under:

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(101) Parallel Designation:	N		(49) Structure Length (Ft.):	32.0	
Parallel SN:			(112) AASHTO Bridge Length (Ft.):	29.0	
(35) Structure Flared:	0		(51) Bridge Roadway Width (Ft.):	30.0	
(31) Design Load:	99		(32) Approach Roadway Width (Ft.):	24.0	
(31A) Struct Steel Weight (Lbs.):	0		(52) Deck Width (Ft.):	30.0	
(60A/B) Substr Matl:			(48) Length of Longest Span (Ft.):	32.0	
(8A1) Bridge Remarks (Existing):	MS 3210 IN YORKVILLE WAS FORMERLY PART OF T		(107/A) Deck Type/Thickness (In.):	N 0.0	
Bridge Remarks (Revised):			Other Deck Type:		
			(45/6) Nbr Spans Main/Approach:	1 0	
			(43A/B) Main Span Material/Type:	3 19	
			Other Span Material:		
Border Bridge Remarks:			(44AN/BN) Near Appr Span Matl/Type #1:		
			(44AN/BN) Near Appr Span Matl/Type #2:		
			(44AF/BF) Far Appr Span Matl/Type #1:		
			(44AF/BF) Far Appr Span Matl/Type #2:		

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(34A) Skew Dir/Angle (DEG):	N / 0		(36E) Guardrails On - Right:	1	
(33) Bridge Median Type:	0		(36F) Guardrails On - Left:	1	
(33A) Bridge Median Width (Ft):	0		(55B1) RR Lateral Underclearance (Ft.):	0.0	
(38) Navigation Control:	0		(54B3) RR Vert Underclearance (Ft. - In.):	0 - 0	
(39) Navigation Vert Clear (Ft):	0		(62A) Culvert Cells (Count):	1	
(40) Navigation Horiz Clea (Ft):	0		(62B) Culvert Cell Width (Ft.):	31.00	
(50A) Sidewalk Width On - Right (Ft):	0.0		(62C) Culvert Cell Height (Ft.):	10.00	
(50B) Sidewalk Width On - Left (Ft):	0.0		(62D) Culvert Cell Opening Area (Sq. Ft.):	259.0	
(50C) Sidewalks Under Structure:	0		(62E) Culvert Fill Depth (Ft.):	3.0	

**Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)**

Date: 9/1/2016

<u>Key Route On</u>			
<u>Item No. / Name</u>	<u>Existing Values</u>		<u>Revisions</u>
(28) Number Of Lanes:	2		_____
(102) One Or Two Way Traffic:	2		_____
<u>South Or East</u>		<u>North Or West</u>	
<u>Value</u>	<u>Revisions</u>	<u>Value</u>	<u>Revisions</u>
(47) Max Rdwy Width (Ft.):	0.0 30.0		_____
(47A/B) Horizontal (Ft.):	30.0	0.0	_____

KR On Remarks:

<u>Key Route Under</u>			
<u>Item No. / Name</u>	<u>Existing Values</u>		<u>Revisions</u>
(28) Number Of Lanes:			_____
(102) One Or Two Way Traffic:			_____
<u>South Or East</u>		<u>North Or West</u>	
<u>Value</u>	<u>Revisions</u>	<u>Value</u>	<u>Revisions</u>
(47) Max Rdwy Width (Ft.):	_____		_____
(47A/B) Horizontal (Ft.):	_____		_____
(55B/56) Min Lateral:	_____		_____

KR Under Remarks:

Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)

Date: 9/1/2016

Structure Number: 047-3155

District: 3
Municipality: YORKVILLE
Facility Carried: Corneils Rd/MS 3200
Feature Crossed: ROB ROY CREEK
(21) Maintenance Resp: MUNICIPALITY
Other Resp:
(22A) Reporting Agency: MUNICIPALITY
Other Reporting Agcy:
(41) Bridge Status: 1 (OPEN - NO RESTRICT)
(41A) Status Date: 07/1999
(41B) Status Remarks:

Maintenance County: KENDALL
Maint Township: BRISTOL
Bridge Name:
Location: IN YORKVILLE
Other Sec Resp:

Item No. / Name	Construction Information	
	Original	Existing Values Reconstruction
(27/27A) Year/Type:	1999	
(27B) Route:	TR 13	
(27C) Section:	99-02116-00-BR(NON-	
(27D) Station:	10+00	
(27E) Contract :		
(27F) Project:		
(27G) Built By:	COUNTY AGENCY	

(42) Service On/Under: 1 HIGHWAY 5 WATERWAY
Other Service On: Other Service Under:

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(101) Parallel Designation:	N		(49) Structure Length (Ft.):	71.4	
Parallel SN:			(112) AASHTO Bridge Length (Ft.):	66.3	66.4
(35) Structure Flared:	0		(51) Bridge Roadway Width (Ft.):	30.0	
(31) Design Load:	02		(32) Approach Roadway Width (Ft.):	28.0	
(31A) Struct Steel Weight (Lbs.):	0		(52) Deck Width (Ft.):	30.0	
(60A/B) Substr Matrl:		5N	(48) Length of Longest Span (Ft.):	68.8	68.9
(8A1) Bridge Remarks (Existing):	5N		(107/A) Deck Type/Thickness (In.):	E 27.0	/
Bridge Remarks (Revised):			Other Deck Type:		
			(45/6) Nbr Spans Main/Approach:	1 0	/
			(43A/B) Main Span Material/Type:	5 05	/
			Other Span Material:		
Border Bridge Remarks:			(44AN/BN) Near Appr Span Matrl/Type #1:		/
			(44AN/BN) Near Appr Span Matrl/Type #2:		/
			(44AF/BF) Far Appr Span Matrl/Type #1:		/
			(44AF/BF) Far Appr Span Matrl/Type #2:		/

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(34A) Skew Dir/Angle (DEG):	L / 10	/	(36E) Guardrails On - Right:	0	
(33) Bridge Median Type:	0		(36F) Guardrails On - Left:	0	
(33A) Bridge Median Width (Ft):	0		(55B1) RR Lateral Underclearance (Ft.):	0.0	
(38) Navigation Control:	0		(54B3) RR Vert Underclearance (Ft. - In.):	0 - 0	
(39) Navigation Vert Clear (Ft):	0		(62A) Culvert Cells (Count):	0	
(40) Navigation Horiz Clea (Ft):	0		(62B) Culvert Cell Width (Ft.):	0.00	
(50A) Sidewalk Width On - Right (Ft):	0.0		(62C) Culvert Cell Height (Ft.):	0.00	
(50B) Sidewalk Width On - Left (Ft):	0.0		(62D) Culvert Cell Opening Area (Sq. Ft.):	0.0	
(50C) Sidewalks Under Structure:	0		(62E) Culvert Fill Depth (Ft.):	0.0	

**Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)**

Date: 9/1/2016

<u>Key Route On</u>			
<u>Item No. / Name</u>	<u>Existing Values</u>	<u>Revisions</u>	
(28) Number Of Lanes:	2	_____	
(102) One Or Two Way Traffic:	2	_____	
<u>South Or East</u>		<u>North Or West</u>	
<u>Value</u>	<u>Revisions</u>	<u>Value</u>	<u>Revisions</u>
(47) Max Rdwy Width (Ft.):	30.0 _____.		
(47A/B) Horizontal (Ft.):	30.0 _____.	0.0 _____.	

KR On Remarks:

<u>Key Route Under</u>			
<u>Item No. / Name</u>	<u>Existing Values</u>	<u>Revisions</u>	
(28) Number Of Lanes:		_____	
(102) One Or Two Way Traffic:		_____	
<u>South Or East</u>		<u>North Or West</u>	
<u>Value</u>	<u>Revisions</u>	<u>Value</u>	<u>Revisions</u>
(47) Max Rdwy Width (Ft.):	_____. ____		
(47A/B) Horizontal (Ft.):	_____. ____		
(55B/56) Min Lateral:	_____. ____		

KR Under Remarks:

Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)

Date: 9/1/2016

Structure Number: 047-3160

District: 3
Municipality: YORKVILLE
Facility Carried: FAU1555/BRISTOL RIDG
Feature Crossed: BLACKBERRY CREEK
(21) Maintenance Resp: MUNICIPALITY
Other Resp:
(22A) Reporting Agency: MUNICIPALITY
Other Reporting Agcy:
(41) Bridge Status: 1 (OPEN - NO RESTRICT)
(41A) Status Date: 09/2003
(41B) Status Remarks: BRIDGE OPENED 9/30/03, ENTERED 10/20/03

Maintenance County: KENDALL
Maint Township: BRISTOL
Bridge Name:
Location: .25 MI NW KENNEDY RD
Other Sec Resp:

Item No. / Name	Construction Information	
	Original	Existing Values Reconstruction
(27/27A) Year/Type:	2003	
(27B) Route:	FAS 278	
(27C) Section:	02-00073-00-BR	
(27D) Station:	42+34	
(27E) Contract :		
(27F) Project:		
(27G) Built By:	COUNTY AGENCY	

(42) Service On/Under: 1 HIGHWAY 5 WATERWAY
Other Service On: Other Service Under:

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(101) Parallel Designation:	N		(49) Structure Length (Ft.):	154.5	
Parallel SN:			(112) AASHTO Bridge Length (Ft.):	99.9	
(35) Structure Flared:	0		(51) Bridge Roadway Width (Ft.):	30.0	
(31) Design Load:	02		(32) Approach Roadway Width (Ft.):	30.0	
(31A) Struct Steel Weight (Lbs.):	0	146,500	(52) Deck Width (Ft.):	33.2	
(60A/B) Substr Matrl:		5/5	(48) Length of Longest Span (Ft.):	73.5	76.0
(8A1) Bridge Remarks (Existing):	CO JT'D NEW STR. TO TWP, THEN CITY LATER ANN		(107/A) Deck Type/Thickness (In.):	A 7.5	/
Bridge Remarks (Revised):			Other Deck Type:		
			(45/6) Nbr Spans Main/Approach:	2 0	/
			(43A/B) Main Span Material/Type:	4 02	/
			Other Span Material:		
Border Bridge Remarks:			(44AN/BN) Near Appr Span Matrl/Type #1:		/
			(44AN/BN) Near Appr Span Matrl/Type #2:		/
			(44AF/BF) Far Appr Span Matrl/Type #1:		/
			(44AF/BF) Far Appr Span Matrl/Type #2:		/

Item No. / Name	Existing Values	Revisions	Item No. / Name	Existing Values	Revisions
(34A) Skew Dir/Angle (DEG):	N / 0	/	(36E) Guardrails On - Right:	0	
(33) Bridge Median Type:	0		(36F) Guardrails On - Left:	0	
(33A) Bridge Median Width (Ft):	0		(55B1) RR Lateral Underclearance (Ft.):	0.0	
(38) Navigation Control:	0		(54B3) RR Vert Underclearance (Ft. - In.):	0 - 0	
(39) Navigation Vert Clear (Ft):	0		(62A) Culvert Cells (Count):	0	
(40) Navigation Horiz Clea (Ft):	0		(62B) Culvert Cell Width (Ft.):	0.00	
(50A) Sidewalk Width On - Right (Ft):	0.0		(62C) Culvert Cell Height (Ft.):	0.00	
(50B) Sidewalk Width On - Left (Ft):	0.0		(62D) Culvert Cell Opening Area (Sq. Ft.):	0.0	
(50C) Sidewalks Under Structure:	0		(62E) Culvert Fill Depth (Ft.):	0.0	

**Illinois Department of Transportation
Structures Information Management System
Inspector's Inventory Report (S-114)**

Date: 9/1/2016

<u>Key Route On</u>			<u>Key Route Under</u>		
<u>Item No. / Name</u>	<u>Existing Values</u>	<u>Revisions</u>	<u>Item No. / Name</u>	<u>Existing Values</u>	<u>Revisions</u>
(28) Number Of Lanes:	2	_____	(28) Number Of Lanes:		_____
(102) One Or Two Way Traffic:	2	_____	(102) One Or Two Way Traffic:		_____
	<u>South Or East</u>	<u>North Or West</u>		<u>South Or East</u>	<u>North Or West</u>
	<u>Value</u> <u>Revisions</u>	<u>Value</u> <u>Revisions</u>		<u>Value</u> <u>Revisions</u>	<u>Value</u> <u>Revisions</u>
(47) Max Rdwy Width (Ft.):	30.0	_____	(47) Max Rdwy Width (Ft.):	_____	_____
(47A/B) Horizontal (Ft.):	30.0	31.2	(47A/B) Horizontal (Ft.):	_____	_____
		0.0	(55B/56) Min Lateral:	_____	_____
KR On Remarks:			KR Under Remarks:		



Bridge File Checklist

Structure Number: 047-3160 (Bristol)

Required Items Per MBE	In Bridge File	Other Location	Not Applicable	Comments/Location Information
Structure Inventory and Appraisal Sheets (Master Structure Report)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
History of Structural Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Photographs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Report & Benesch server under Project 10170
Chronological History of Inspection Reports ¹ – Original Signature Required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Since 2013
Chronological History of Critical Finding Reports	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Surveyed Channel Cross-Sections, soundings, stream profile ²	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Historical comparison of channel cross-section, channel sounding, stream profile data ²	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Structure Correspondence	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fracture Critical Member (FCM) Inspection Plan ³	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Underwater (UW) Inspection Plan ³	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Complex Bridge Inspection Plan ³	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Inspection Requirements (Equipment & Procedures) ³	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Load Rating Records ⁴	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Posting Requirements and Calculations ⁴	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scour Evaluations ²	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Scour Plan of Action (POA) ²	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Structure Design Plans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Benesch server under Project 10170
Structure Design Calculations ⁴	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Utilities and Attachments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Maintenance and Repair History	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Coating/Painting History ²	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Weathering Steel
Major Storm Event / Flood Data ⁵	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

1. Include Underwater, Fracture Critical Member and Complex Bridge Inspections.
2. Required when applicable.
3. Inspection procedures required for FCM, UW, and Complex Inspections.
4. Maintained at IDOT Bridge Office unless noted otherwise.
5. Flood data required for scour critical bridges (Item 113 \leq 3) and bridges requiring an UW Inspection.