

Village Board

Village President

Frank DeSimone

Trustees

Rosa Carmona

Ann Franz

Agnieszka "Annie" Jaworska

McLane Lomax

Armando Perez

Village Clerk

Nancy Quinn

Village Manager

Evan K. Summers



BENSENVILLE
GATEWAY TO OPPORTUNITY

Village of Bensenville, Illinois
VILLAGE BOARD
INFRASTRUCTURE AND ENVIRONMENT
COMMITTEE MEETING
AGENDA
7:30 PM May 15, 2017
Or Immediately Following the Recreation
Committee Meeting

Call to Order

Roll Call

Public Comment (3 Minutes per person with a 30 minute meeting limitation)

Approval of Minutes:

April 18, 2017 Infrastructure and Environment Committee Minutes

ACTION ITEMS

1. Consideration of a Resolution Authorizing the Approval of a Purchase Order to the DuPage River Salt Creek Workgroup (DRSCW) for the 2017/2018 Annual Dues in the Amount of \$13,567
2. Consideration of a Resolution Authorizing the Execution of an Intergovernmental Agreement (IGA) between the Illinois State Toll Highway Authority and the Village of Bensenville for the Chloride Offset Program
3. Consideration of a Resolution Approving an Intergovernmental Agreement (IGA) between Village of Bensenville and DuPage County Regarding the Redmond Reservoir Expansion Project.
4. Consideration of a Resolution Authorizing a Design Engineering Services Agreement with Engineering Resource Associates for the Redmond Reservoir Expansion Project (CDBG) in the Not-to-Exceed Amount of \$77,895.66
5. Consideration of a Resolution Authorizing a Design Engineering Services Agreement with Engineering Resource Associates for the George St Bypass Storm Sewer Project (CDBG) in the Not-to-Exceed Amount of \$64,585.26

INFORMATIONAL ITEMS

1. Discussion of Project Status for the Downtown Streetscape - Phase I (North Side)

Adjournment

TYPE:Minutes**SUBMITTED BY:**Corey Williamsen**DEPARTMENT:**Village Clerk's Office**DATE:**May 15, 2017**DESCRIPTION:**April 18, 2017 Infrastructure and Environment Committee Minutes.**SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:****COMMITTEE ACTION:****DATE:****BACKGROUND:****KEY ISSUES:****ALTERNATIVES:****RECOMMENDATION:****BUDGET IMPACT:****ACTION REQUIRED:****ATTACHMENTS:**

Description

Upload Date

Type

DRAFT_170418_I&E**5/10/2017****Cover Memo**

**Village of Bensenville
Village Board Room
12 South Center Street
Bensenville, Illinois 60106
Counties of DuPage and Cook**

**MINUTES OF THE INFRASTRUCTURE AND ENVIRONMENT COMMITTEE
April 18, 2017**

CALL TO ORDER: Chairman DeSimone called the meeting to order at 7:19 p.m.

PRESENT: Upon roll call by Deputy Village Clerk, Corey Williamsen, the following Board Members were present:

Chairman DeSimone, Carmona, Jaworska, Majeski,
O'Connell

Absent: Wessler

Village Clerk, Ilsa Rivera-Trujillo was also present

A quorum was present.

Staff Present: E. Summers, J. Caracci, T. Finner, B. Flood,
F. Kosman, S. Viger, C. Williamsen

Public Comment: There was no public comment.

Approval of Minutes: The March 21, 2017 Infrastructure and Environment Committee Meeting minutes were presented.

Motion: Trustee Majeski made a motion to approve the minutes as presented. Trustee Jaworska seconded the motion.

All were in favor. Motion carried.

Surplus Property: Village Manager, Evan Summers, presented an Ordinance Authorizing the Designation of Certain Property as Surplus and Authorizing the Disposition of Same.

There were no questions from the Committee.

Motion: Trustee Majeski made a motion to approve this item for placement on a future Village Board Meeting Agenda for action. Trustee Carmona seconded the motion.

All were in favor. Motion Carried.

Hoerr

Construction: Village Manager, Evan Summers, presented a Resolution Authorizing the Execution of a Contract to Hoerr Construction, Inc. for the 2017 Sanitary Sewer Lining Program in the Not-to-Exceed amount of \$182,776.50.

There were no questions from the Committee.

Motion: Trustee Majeski made a motion to approve this item for placement on a future Village Board Meeting Agenda for action. Trustee Carmona seconded the motion.

All were in favor. Motion Carried.

MPI MFT: Village Manager, Evan Summers, presented a Resolution Authorizing the Execution of a Contract for the 2017 MPI MFT Pavement Patching Program in the Not-to-Exceed Amount of \$100,000.00 with R.W. Dunteman.

There were no questions from the Committee.

Motion: Trustee O'Connell made a motion to approve this item for placement on a future Village Board Meeting Agenda for action. Trustee Majeski seconded the motion.

All were in favor. Motion Carried.

William Brothers

Change Order #6: Village Manager, Evan Summers, presented a Resolution Concerning the Determination of the Bensenville Village Board that Change Order Number Six with Williams Brothers Construction, Inc. for a Decrease of \$105,702.00 is Required for the Wastewater Treatment Plant Improvements Project for a Revised Contract Cost of \$27,142,874.00 and a Time Extension of 6 Days.

There were no questions from the Committee.

Motion: Trustee Majeski made a motion to approve this item for placement on a future Village Board Meeting Agenda for action. Trustee Jaworska seconded the motion.

All were in favor. Motion Carried.

**Informational
Items:**

Trustee Jaworska asked for an update regarding the Lion's Park drainage. Mr. Caracci stated he would look into the drainage at the park and report back to the Committee in the near future.

ADJOURNMENT: Trustee Majeski made a motion to adjourn the meeting. Trustee Carmona seconded the motion.

All were in favor. Motion carried.

Chairman DeSimone adjourned the meeting at 7:32 p.m.

Corey Williamsen
Deputy Village Clerk

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville this ____ day, May 2017

TYPE:Resolution**SUBMITTED BY:**Joe Caracci**DEPARTMENT:**Public Works**DATE:**May 15, 2017**DESCRIPTION:**

Consideration of a Resolution Authorizing the Approval of a Purchase Order to the DuPage River Salt Creek Workgroup (DRSCW) for the 2017/2018 Annual Dues in the Amount of \$13,567

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:X *Financially Sound Village**Quality Customer Oriented Services**Safe and Beautiful Village**Enrich the lives of Residents**Major Business/Corporate Center**Vibrant Major Corridors***COMMITTEE ACTION:**

Infrastructure & Environment

DATE:

May 15, 2017

BACKGROUND:

The Village of Bensenville owns and operates a Wastewater Treatment Plant (WWTP) that is subject to permit requirements by the Illinois Environmental Protection Agency (IEPA). The Village's permit (IL0021849) was recently renewed on November 1, 2015. The IEPA had held up the re-issuing of permits for all WWTP in the area as they attempted to tighten limits on nutrient removal. Phosphorus removal has been their number one goal in the past five years. The IEPA has been pressured by the Federal EPA to remove phosphorus by placing limits on plants that are tributary to the Mississippi River.

The DuPage River / Salt Creek Workgroup (DRSCW) formed in 2005 in response to concerns about TMDLs (Total Maximum Daily Loads) being set for the East & West Branches of the DuPage River and Salt Creek. The DRSCW seeks to implement targeted watershed activities that resolve priority waterway problems efficiently and cost effectively. The group was founded by WWTPs looking to combine efforts and share resources in order to address constant and continuing regulations being implemented against WWTPs. The Village has participated in the DRSCW since 2005 and has been very supportive and active in their activities to improve water quality to our streams.

On behalf of its 38 treatment plant members, the DRSCW worked very closely with IEPA in putting together Special Conditions that would allow for delayed Phosphorus limits to go into effect for many of the member agencies. These Special Conditions are basically a way for individual plants to pool their money together to perform specialized projects on the waterways to help lower Phosphorus limits. The DRSCW has identified eleven projects at a total cost of nearly \$16 million that is acceptable to IEPA to refrain from assessing a 1.0 mg/L limit on all plants in the area. Many member agencies are taking advantage of this program as they have no phosphorus removal processes at their facilities. IEPA has accepted this proposal and has started to issue new permits to facilities as a special condition to their permit.

The Village of Bensenville was one of three agency members that was in the process of installing phosphorus removal at their facilities (Itasca and MWRD being the other two). The DRSCW moved forward with their plans anticipating that these three entities would not participate in the funding of these projects. The Bensenville contribution to the projects was \$471,432 over eight years. Our WWTP Upgrade included approximately \$400,000 to install biological phosphorus removal. Participating in this special condition did not make financial sense for us.

The Village's permit for the next five years included a 1.0 mg/L phosphorus limit with a 39-month implementation plan. This is a limit that we feel we should be able to satisfy now that new plant is up and running. In discussions with IEPA, there is no guarantee that this limit would not be lowered even more when our permit expires in five years. This was a very disheartening and quite scary conversation. We immediately started another conversation with DRSCW.

The DRSCW was able to include in their Special Condition a clause that the phosphorus limit would not go into effect for those participating for an eleven year time period. Working with DRSCW, IEPA, and Itasca (again in a very similar situation as us) we have come up with a secondary Special Condition that would apply to both of us that allows us to participate financially in two engineering studies geared toward Phosphorus removal and potential Phosphorus Removal sharing. This Special Condition will include a clause that keeps our Phosphorus limit at a 1.0 mg/L limit for eleven years as well. IEPA has accepted this plan and thus issued our permit.

The financial participation level on these two studies is outlined in the attached agreement and total \$27,678 over the next eight years. This is a very affordable insurance plan for the Village to avoid a potential reduced limit in five years. Costs to reduce phosphorus to a 0.5 mg/L limit would likely include significant increases in chemical costs on the order of \$100,000 per year (est.). To reduce down to a 0.1 mg/L limit (which is starting to become the norm in Wisconsin) would require another major retrofit to our facility that would likely include the replacement of our sand filters with a membrane filter on the order of \$3 million. Staff felt that participation in this program would be a very economic way to postpone any future limit reduction on our plant.

The Village Board approved Resolution R-86-2015 authorizing the execution of an agreement with the DuPage River Salt Creek Workgroup (DRSCW) accepting the DRSCW Special Condition provisions and participating in the Local Funding Program.

KEY ISSUES:

The Village's commitment/dues to the Local Funding Program for 2017/2018 was identified as \$13,567. Participation in the Special Conditions component of the DRSCW benefits the Village with extended permit conditions with respect to phosphorous removal.

ALTERNATIVES:

Discretion of the Committee.

RECOMMENDATION:

Staff recommends approval of the Resolution authorizing the approval of a Purchase Order to the DuPage River Salt Creek Workgroup (DRSCW) for the 2017/2018 Annual Dues in the amount of \$13,567.

BUDGET IMPACT:

\$13,600 was budgeted in the CY2017 budget (Account Number 51050570-521110).

ACTION REQUIRED:

Motion to consider a Resolution Authorizing the Approval of a Purchase Order to the DuPage River Salt Creek Workgroup (DRSCW) for the 2017/2018 Annual Dues in the Amount of \$13,567.

ATTACHMENTS:

Description	Upload Date	Type
INVOICE - 2017 DRSCW Dues	4/24/2017	Backup Material
PROFILE - 2017 DRSCW Dues	4/24/2017	Backup Material
AGREEMENT - R-85-2015	5/2/2017	Backup Material
RES - 2017 DRSCW Dues	4/18/2017	Resolution Letter



DuPage River Salt Creek Workgroup

Mr. Joe Caracci
Director of Public Works
Village of Bensenville
717 E Jefferson Street
Bensenville, IL 60106

President
David Gorman
Village of Lombard

Vice President
Sue Baert
Wheaton Sanitary District

Secretary-Treasurer
Rick Federighi
Village of Addison

*Monitoring
Committee Chairperson*
Jennifer Hammer
The Conservation Foundation

*Salt Creek
Committee Chairperson*
Dennis Streicher
Sierra Club - River Prairie Group

*East Branch DuPage River
Committee Chairperson*
Larry Cox
Downers Grove Sanitary District

*West Branch DuPage River
Committee Chairperson*
Erik Neidy
Forest Preserve District of
DuPage County

Member At Large
Mary Beth Falsey
DuPage County

Member At Large
Nicholas Menninga
Downers Grove Sanitary District

Member At Large
Steven Zehner
Robinson Engineering, Ltd.

*Staff
Watershed Manager*
Stephen McCracken
The Conservation Foundation

Watershed Project Manager
Deanna Doohaluk
The Conservation Foundation

Water Resource Assistant
Tara Neff
The Conservation Foundation

April 11, 2017

Dear Mr. Caracci:

Please find attached the invoice for year-three of the DRSCW special condition. Implementation is on schedule. The Oak Meadows dam removal and stream restoration project is complete and we continue to advance projects related to Fawell dam, Fullersburg Woods, Spring Brook, and our Nutrient Implementation Plan, while fulfilling reporting requirements.

The following agencies are participating in the special condition: Village of Addison, Village of Bartlett, Village of Bloomingdale, Village of Bolingbrook, Village of Carol Stream, Downers Grove Sanitary District, DuPage County, City of Elmhurst, Glenbard Wastewater Authority, Village of Glendale Heights, Village of Hanover Park, Village of Roselle, Salt Creek Sanitary District, City of West Chicago, Wheaton Sanitary District and City of Wood Dale. The Village of Bensenville and the Village of Itasca are participating in the permit special condition study components.

We are happy to have the participation of the Lower DuPage River Watershed Coalition's six POTW Agency members in a number of the special condition study components as well as dam removal and river restoration work on the mainstem DuPage River, our downstream condition.

The enclosed invoice reflects the two components contained in your Agency's funding commitment – annual membership dues and the project assessment. For your information and planning purposes, projected membership dues and project assessments for the next two years are provided. Please remit your invoice balance and agency profile by July 31, 2017.

Thank you for your continued participation in the DRSCW. Please contact Tara Neff (630-428-4500 x 123) with questions regarding your invoice.

Sincerely,

David Gorman, President
DuPage River Salt Creek Workgroup

Enclosures: Agency Profile
DRSCW Membership Invoice
DRSCW W-9



DuPage River Salt Creek Workgroup
10S404 Knoch Knolls Road
Naperville, IL 60565

INVOICE

EIN Number 56-2543795

Invoice Date: April 10, 2017

To: Mr. Joe Caracci
Director of Public Works
Village of Bensenville
717 E Jefferson Street
Bensenville, IL 60106

DRSCW Agency Membership Payments (March 1, 2017 – February 28, 2018)

Membership Dues:	
reflects 3% increase over last year's dues	\$10107.00
Project Assessment:	
associated with alternative projects	\$3460.00
	Total Amount Due: \$13567.00
	Amount due by July 31, 2017 \$13567.00

For budgeting purposes, your 2018 Agency payments are projected to be \$13870.00, which includes a 3% increase in annual membership dues (\$10410.00) and your committed project assessment of \$3460.00; 2019 Agency payments are projected to be \$14651.00, which includes a 7.5% increase in annual membership dues (\$11191.00) and your committed project assessment of \$3460.00. Contact Tara Neff at 630.428.4500 x123 or tneff@theconservationfoundation.org with questions concerning this invoice.

Please remit payment by July 31, 2017 to:
DuPage River Salt Creek Workgroup
10S404 Knoch Knolls Rd.
Naperville, IL 60565

**Request for Taxpayer
Identification Number and Certification**

Give Form to the requester. Do not send to the IRS.

Name (do not check or print multiple names)
DUPAGE RIVER SALT CREEK WORKSHOP

Business name (do not check or print multiple names) (do not check or print multiple names)

Check appropriate box for correct tax classification:
 Individual proprietor S Corporation Partnership Trust/estate
 Limited liability company (check the tax classification: C corporation, S corporation, Partnership) Other (see instructions) **NON PROFIT**

Address (number, street, and apt. or suite no.)
10 S 404 KNOWN KNOWLS RD

City, state, and ZIP code
NAPERVILLE IL 60565

Requester's name and address (optional)
Bolingbrook Park District
201 Recreation Drive
Bolingbrook, IL 60440

Print or type name of requester
 Federal payment (if any) _____
 Estimated time FATCA reporting cost (if any) _____

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see how to get a TIN on page 3.

Note: If the account is in more than one name, see the third of page 4 for guidelines on whose number to enter.

Social security number

		-		
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Employer identification number

5	0	-	2	5	4	5	7	9	5
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Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below), and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must check out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here Signature of U.S. person *[Signature]* Date **6-7-2016**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.
Future developments. The IRS has created a page on IRS.gov for information about Form W-9, an annual guidance publication about any future developments affecting Form W-9 such as regulations or notices that we release. It will be posted on that page.

Purpose of Form

A person who is required to furnish information about you with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, dividends made to you in payment of payment and/or third party interests, transactions, real estate transactions, mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you make to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), or provide your correct TIN to the person requesting it. The requester and, when applicable, the:

- Entity that the TIN you are giving is correct or you are waiting for a number to be issued;
- Entity that you are not subject to backup withholding; or
- Entity exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocated share of any partnership income from a U.S. bank or business is not subject to the

withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting is correct.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is a substantially similar to this Form W-9.

Definition of a U.S. person. For purposes of FATCA, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Reg. 1.6049-6(c)(2)(ii)(B)).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any section 1445(a) "foreign partner" share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1445 require a partnership to presume that a partner is a foreign person, and pay the section 1445 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1445 withholding on your share of partnership income.



DuPage River Salt Creek Workgroup

AGENCY MEMBERSHIP PROFILE

1. Agency Name: Village of Bensenville

Address: 717 E Jefferson Street
City: Bensenville Zip: 60106
Telephone Number: 630-766-8200
Fax Number: 630-594-1148

County: DuPage
Website: www.bensenville.il.us
Chief Executive Officer: Frank DeSimone
Title: Village President

2. If your Agency operates a wastewater treatment facility, please provide the following information for each facility:

NPDES Permit Number: IL0021849 NPDES Permit Number:
Facility Discharges to: Salt Creek Facility Discharges to:
Design Average Flow: 4.7 MGD Design Average Flow:

NPDES Permit Number: NPDES Permit Number:
Facility Discharges to: Facility Discharges to:
Design Average Flow: Design Average Flow:

3. If your Agency has received an NPDES Phase II permit for municipal separate storm sewer discharges, please provide the areas within your municipality that are tributary to each watershed:

East Branch DuPage River	0 acres
West Branch DuPage River	0 acres
Salt Creek	1575 acres
Total	1575

4. Are there any combined sewer service areas within your Agency? No
(If yes, the DRSCW may request additional information)

5. DESIGNATED REPRESENTATIVE:

Name: Joe Caracci
Title: Director of Public Works
Direct Line:
Email Address: jcaracci@bensenville.il.us

ALTERNATE REPRESENTATIVE:

Name: Mark Swayne
Title: Wastewater Supervisor
Direct Line:
Email Address: MSwayne@bensenville.il.us

The Designated Representative is authorized to vote at Workgroup meetings on the agency's behalf and the Alternate Representative is authorized to vote in the absence of the Designated Representative.

Signature _____ Title _____ Date _____

Please direct questions to Tara Neff at tneff@theconservationfoundation.org or 630.428.4500 X123. Please complete this Agency Membership Profile and return it along with a check made payable to DRSCW:

DuPage River/ Salt Creek Workgroup
10S404 Knoch Knolls Rd.
Naperville, Illinois 60565

RESOLUTION NO. R-86-2015

**AUTHORIZING THE EXECUTION OF AN AGREEMENT WITH THE
DUPAGE RIVER / SALT CREEK WORKGROUP (DRSCW) ACCEPTING THE
DRSCW SPECIAL CONDITION PROVISION AND PARTICIPATING IN THE
DRSCW LOCAL FUNDING PROGRAM**

WHEREAS the Village of Bensenville owns and operates a Wastewater Treatment Plant (WWTP) that is subject to permit requirements by the Illinois Environmental Protection Agency (IEPA), and

WHEREAS The Village's permit (IL0021849) expired on July 31, 2011, and

WHEREAS The IEPA has held up the re-issuing of permits for all WWTP in the area as they attempt to tighten limits on Nutrient removal; and

WHEREAS The DuPage River / Salt Creek Workgroup (DRSCW) was organized in 2005 to monitor, maintain and improve stream quality in the watersheds of Salt Creek and the East and West Branches of the DuPage River; and

WHEREAS the Village of Bensenville has supported and participated in DRSCW as an Agency member since 2006; and

WHEREAS the DRSCW has developed a Special Condition that is acceptable to IEPA that will extend a new Phosphorus limit for eleven years in lieu of the five year permit cycle; and

WHEREAS the Special Condition includes engineering studies that require an additional level of funding by the Village; and

WHEREAS it is in the best interest of the Village, both operationally and financially, to participate in the Special Condition; and

WHEREAS in order to formalize our participation in the Special Condition the DRSCW and IEPA require an Agreement be executed; and

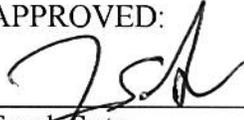
WHEREAS the Agreement is attached to this Resolution as Exhibit A.

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

THAT the Village Board authorizes the execution of an agreement with DuPage River / Salt Creek Workgroup (DRSCW) accepting the DRSCW special condition provision and participating in the DRSCW local funding program.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, Illinois, August 25, 2015.

APPROVED:



Frank Soto
Village President

ATTEST:



Ilsa Rivera-Trujillo
Village Clerk

AYES: DeSimone, Jaworska, Carmona, Wesseler, Janowiak, O'Connell

NAYS: None

ABSENT: None

AN AGREEMENT BETWEEN THE VILLAGE OF BENSENVILLE AND THE DUPAGE RIVER/SALT CREEK WORKGROUP

THIS AGREEMENT is entered into by and between the VILLAGE OF BENSENVILLE, (AGENCY), an Illinois municipality, and the DUPAGE RIVER/SALT CREEK WORKGROUP (DRSCW), an Illinois not-for-profit corporation, concerning the participation of AGENCY in a DRSCW local funding program to complete alternate stream restoration projects, described herein.

WHEREAS, DRSCW was organized in 2005 to monitor, maintain and improve stream quality in the watersheds of Salt Creek and the East and West Branches of the DuPage River; and

WHEREAS, AGENCY has supported and participated in DRSCW as an Agency member since ____, and

WHEREAS, DRSCW has negotiated a special condition for inclusion in the NPDES permits of Publicly Owned Treatment Works (POTWs) discharging into the above referenced watersheds, including NPDES Permit Number _____ for POTW facilities owned by AGENCY, hereinafter referred to as “DRSCW Special Condition”; and

WHEREAS, the DRSCW Special Condition, attached as Exhibit A, and the referenced DuPage River/Salt Creek Workgroup (DRSCW) Implementation Plan, dated April 16, 2015, attached as Exhibit B, herein after referred to as “DRSCW Implementation Plan”, allows AGENCY to participate in the DRSCW local funding program to complete alternate stream restoration projects, and

WHEREAS AGENCY and DRSCW have agreed to a revision to the local program funding levels attributable to AGENCY in the DRSCW Implementation Plan to reflect the

AGENCY RESPONSIBILITIES

2. AGENCY agrees to remain an Agency member of DRSCW and to pay dues and project assessments to DRSCW as detailed below:

<u>Payment Due Dates</u>	<u>Annual Dues</u>	<u>Project Assessments</u>	<u>Total Payment</u>
60 days after term commences	\$9,526	\$3,459	\$12,985
June 1, 2016	\$9,812	\$3,459	\$13,271
June 1, 2017	\$10,107	\$3,460	\$13,567
June 1, 2018	\$10,410	\$3,460	\$13,870
June 1, 2019	\$10,722	\$3,460	\$14,182
June 1, 2020	\$11,044	\$3,460	\$14,504
June 1, 2021	\$11,375	\$3,460	\$14,835
June 1, 2022	\$11,716	\$3,460	\$15,176

3. AGENCY shall cooperate with DRSCW in the completion of those tasks designated to be completed by either AGENCY or DRSCW in the DRSCW Special Condition.
4. AGENCY shall indemnify and hold DRSCW harmless from and against any and all liabilities, demands, claims, suits, losses, damages, causes of action, fines or judgments, including costs and attorney’s fees, and related expenses that result from the intentional acts or omissions of AGENCY.

DRSCW RESPONSIBILITIES

5. DRSCW will receive and administer the project assessment funds as detailed herein.
6. DRSCW will enter into contracts with the appropriate entities to complete the studies, plans, models and reports and the design and permitting of projects contained in the DRSCW Special Condition and shall pay for those contracts from project assessment funds.
7. Upon the accumulation of sufficient project assessment funds, DRSCW will enter into contracts with project sponsors, i.e. the appropriate entity, property owner and/or

payments, accidents or injuries to persons or property arising out of the performance by DRSCW under this Agreement.

GENERAL PROVISIONS

13. This agreement may be terminated in whole or in part, in writing by either party in the event of substantial failure (“termination by default”) by the other party to fulfill its obligations under this Agreement through no fault of the terminating party, provided that no such termination may be effected unless the other party is given (1) not less than twenty-one (21) calendar days written notice (delivered by certified mail, return receipt requested) of intent to terminate and (2) an opportunity for consultation with the terminating party prior to termination. In addition, AGENCY and DRSCW reserve the right to terminate this agreement if either respective governing board determines that funding is not available to continue this agreement or that the mission of either organization is not furthered by continuing this affiliation.
14. This document shall be the final and complete embodiment of the Agreement by and between AGENCY and DRSCW. No oral changes, modifications, or additions to this Agreement shall be permitted or allowed. Changes, modifications, or additions to this Agreement shall be made only in writing and contain the necessary and proper signatures of AGENCY and DRSCW.
15. Any dispute arising under or in connection with the Agreement or related to any matter which is the subject of the Agreement shall be subject to the exclusive jurisdiction of the state and/or federal courts located in DuPage County, State of Illinois.

Dated at Bensenville, Illinois, this 4th day of November, 2015.

VILLAGE OF BENSENVILLE

By: 
President

Attest: 
Secretary

Dated at Naperville, Illinois, this 4th day of NOVEMBER, 2015.

DUPAGE RIVER/SALT CREEK WORKGROUP

By: 
President

Attest: 
Secretary/Treasurer

Draft DuPage/Salt Creek Special Condition XX (1).

1. The Permittee shall participate in the DuPage River Salt Creek Workgroup (DRSCW). The Permittee shall work with other watershed members of the DRSCW to determine the most cost effective means to remove dissolved oxygen (DO) and offensive condition impairments in the DRSCW watersheds.
2. The Permittee shall ensure that the following projects and activities set out in the DRSCW Implementation Plan (April 16, 2015), are completed (either by the permittee or through the DRSCW) by the schedule dates set forth below; and that the short term objectives are achieved for each by the time frames identified below:

Project Name	Completion Date	Short Term Objectives	Long Term Objectives
QUAL 2K East Branch and Salt Creek	December 31, 2023	Collect new baseline data and update model	Quantify improvements in watershed. Identify next round of projects for years beyond 2024.
NPS Phosphorus Feasibility Analysis	December 31, 2021	Assess NPS performance from reductions leaf litter and street sweeping	Reduce NPS contributions to lowest practical levels

3. The Permittee shall participate in implementation of a watershed Chloride Reduction Program, either directly or through the DRSCW. The program shall work to decrease DRSCW watershed public agency chloride application rates used for winter road safety, with the objective of decreasing watershed chloride loading. The Permittee shall submit an annual report on the annual implementation of the program identifying the practices deployed, chloride application rates, estimated reductions achieved, analyses of watershed chloride loads, precipitation, air temperature conditions and relative performance compared to a baseline condition. The report shall be provided to the Agency by March 31 of each year reflecting the Chloride Abatement Program performance for the preceding year (example: 2015-16 winter season report shall be submitted no later than March 31, 2017). The Permittee may work cooperatively with the DRSCW to prepare a single annual progress report that is common among DRSCW permittees.
4. The Permittee shall submit an annual progress report on the projects listed in the table of paragraph 2 above to the Agency by March 31 of each year. The report shall include project implementation progress. The Permittee may work cooperatively with the DRSCW to prepare a single annual progress report that is common among DRSCW permittees.
5. The Permittee shall develop a written Phosphorus Discharge Optimization Plan. In developing the plan, the Permittee shall evaluate a range of measures for reducing phosphorus discharges from the treatment plant, including possible source reduction measures, operational

improvements, and minor low cost facility modifications that will optimize reductions in phosphorus discharges from the wastewater treatment facility. The permittee's evaluation shall include, but not necessarily be limited to, an evaluation of the following optimization measures:

- a. WWTF influent reduction measures.
 - i. Evaluate the phosphorus reduction potential of users.
 - ii. Determine which sources have the greatest opportunity for reducing phosphorus (e.g., industrial, commercial, institutional, municipal, and others).
 1. Determine whether known sources (e.g., restaurant and food preparation) can adopt phosphorus minimization and water conservation plans.
 2. Evaluate implementation of local limits on influent sources of excessive phosphorus.
- b. WWTF effluent reduction measures.
 - i. Reduce phosphorus discharges by optimizing existing treatment processes without causing non-compliance with permit effluent limitations or adversely impacting stream health.
 1. Adjust the solids retention time for biological phosphorus removal.
 2. Adjust aeration rates to reduce DO and promote biological phosphorus removal.
 3. Change aeration settings in plug flow basins by turning off air or mixers at the inlet side of the basin system.
 4. Minimize impact on recycle streams by improving aeration within holding tanks.
 5. Adjust flow through existing basins to enhance biological nutrient removal.
 6. Increase volatile fatty acids for biological phosphorus removal.

6. Within 24 months of the effective date of this permit, the Permittee shall finalize the written Phosphorus Discharge Optimization Evaluation Plan and submit it to IEPA. The plan shall include a schedule for implementing all of the evaluated optimization measures that can practically be implemented and include a report that explains the basis for rejecting any measure that was deemed impractical. The schedule for implementing all practical measures shall be no longer than 36 months after the effective date of this permit. The Permittee shall implement the measures set forth in the Phosphorus Discharge Optimization Plan in accordance with the schedule set forth in that Plan. The Permittee shall modify the Plan to address any comments that it receives from IEPA and shall implement the modified plan in accordance with the schedule therein.

Annual progress reports on the optimization of the existing treatment facilities shall be submitted to the Agency by March 31 of each year beginning 24 months from the effective date of the permit.

7. The Permittee shall, within 24 months of the effective date of this permit, complete a feasibility study that evaluates the timeframe, and construction and O & M costs of reducing phosphorus levels in its discharge to a level consistently meeting a limit of 1 mg/L, 0.5 mg/L and 0.1 mg/L utilizing a range of treatment technologies including, but not necessarily limited to, biological

phosphorus removal, chemical precipitation, or a combination of the two. The study shall evaluate the construction and O & M costs of the different treatment technologies for these limits on a monthly, seasonal, and annual average basis. For each technology and each phosphorus discharge level evaluated, the study shall also evaluate the amount by which the Permittee's typical household annual sewer rates would increase if the Permittee constructed and operated the specific type of technology to achieve the specific phosphorus discharge level. Within 24 months of the effective date of this Permit, the Permittee shall submit to the Agency and the DRSCW a written report summarizing the results of the study.

8. Total phosphorus in the effluent shall be limited as follows:
 - a. The effluent limitation shall be 1.0 mg/L monthly average for 11 years from the effective date of this permit unless the Agency approves and reissues or modifies the permit to include an alternative phosphorus reduction pursuant to paragraph b or c below that is fully implemented within 11 years of the effective date of this permit.
 - b. The Agency may modify this permit if the DRSCW has developed and implemented a trading program for POTWs in the DRSCW watersheds, providing for reallocation of allowed phosphorus loadings between two or more POTWs in the DRSCW watersheds, that delivers the same results of overall watershed phosphorus point-source reduction and loading anticipated from the uniform application of the applicable 1.0 mg/L monthly average effluent limitation among the POTW permits in the DRSCW watersheds and removes DO and offensive condition impairments and meet the applicable dissolved oxygen criteria in 35 IL Adm. Code 302.206 and the narrative offensive aquatic algae criteria in 35 IL Adm. Code 302.203.
 - c. The Agency may modify this permit if the DRSCW has demonstrated and implemented an alternate means of reducing watershed phosphorus loading to a comparable result within the timeframe of the schedule of this condition and removes DO and offensive condition impairments and meet the applicable dissolved oxygen criteria in 35 IL Adm. Code 302.206 and the narrative offensive aquatic algae criteria in 35 IL Adm. Code 302.203.
9. The Permittee shall monitor the wastewater effluent, consistent with the monitoring requirements on Page 2 of this permit, for total phosphorus, dissolved phosphorus, nitrate/nitrite, total Kjeldahl nitrogen (TKN), ammonia, total nitrogen (calculated), alkalinity and temperature at least once a month. The Permittee shall monitor the wastewater influent for total phosphorus and total nitrogen at least once a month. The results shall be submitted on NetDMRs to the Agency unless otherwise specified by the Agency.
10. The Permittee shall submit a Nutrient Implementation Plan (NIP) for the DRSCW watersheds that identifies phosphorus input reductions by point source discharges, non-point source discharges and other measures necessary to remove DO and offensive condition impairments and meet the applicable dissolved oxygen criteria in 35 IL Adm. Code 302.206 and the narrative offensive aquatic algae criteria in 35 IL Adm. Code 302.203. The NIP shall also include a schedule for implementation

of the phosphorus input reductions and other measures. The Permittee may work cooperatively with the DRSCW to prepare a single NIP that is common among DRSCW permittees. The NIP shall be submitted to the Agency by December 31, 2023.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

BRUCE RAUNER, GOVERNOR

LISA BONNETT, DIRECTOR

217/782-0610

July 17, 2015

Village of Bensenville
12 South Center Street
Bensenville, Illinois 60106

Re: Village of Bensenville - South STP
NPDES Permit No. IL0021849
Draft Permit

Gentlemen:

Attached to this letter is a copy of the draft Permit, Public Notice/Fact Sheet for your discharge. The Agency proposes to issue the NPDES Permit for your discharge as shown in the draft Permit.

Fifteen days from the date of this letter, the Agency proposes to distribute the attached Public Notice/Fact Sheet statewide. If you have objections to the content of the Public Notice/Fact Sheet, a written statement must be received by the Agency at the indicated address, attention: NPDES PN Clerk within 10 days.

The Agency will receive comments regarding the Permit for a period of 30 days after the Public Notice is issued. If you wish to comment or object to any of the terms and conditions of the Permit, you must state the objections in writing prior to the end of the public notice. The Agency may or may not change the Permit based on comments received from you or the public.

If you should have questions or comments regarding the above, please contact Getie Yilma at 217/782-0610.

Sincerely,

Amy L. Dragovich, P.E.
Manager, Northern Municipal Unit, Permit Section
Division of Water Pollution Control

ALD:GY:11111601.bah

Attachments: Draft Permit, Public Notice/Fact Sheet

cc: Records Unit
Strand Associates, Inc.

NPDES Permit No. IL0021849

Notice No. GY:11111601.bah

Public Notice Beginning Date:

Public Notice Ending Date:

National Pollutant Discharge Elimination System (NPDES)
Permit Program

PUBLIC NOTICE/FACT SHEET
of
Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois EPA
Division of Water Pollution Control
Permit Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
217/782-0610

Name and Address of Discharger:

Village of Bensenville
12 South Center Street
Bensenville, Illinois 60106

Name and Address of Facility:

Village of Bensenville - South STP
711 East Jefferson Street
Bensenville, Illinois 60106
(DuPage County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES Permit to discharge into the waters of the state and has prepared a draft Permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. All comments on the draft Permit and requests for hearing must be received by the IEPA by U.S. Mail, carrier mail or hand delivered by the Public Notice Ending Date. Interested persons are invited to submit written comments on the draft Permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the Permit applicant. The NPDES Permit and notice numbers must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft Permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft Permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final Permit is issued. For further information, please call Getie Yilma at 217/782-0610.

The following water quality and effluent standards and limitations were applied to the discharge:

Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board and the Clean Water Act were applied in determining the applicable standards, limitations and conditions contained in the draft Permit.

The applicant is engaged in treating domestic and industrial wastewater for the Village of Bensenville.

The length of the Permit is approximately 5 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, Addison Creek is 0 cfs.

The existing design average flow (DAF) for the facility is 4.7 million gallons per day (MGD) and the design maximum flow (DMF) for the existing facility is 10 MGD. Treatment consists of screening, grit removal, primary treatment trickling filtration, activated sludge, sedimentation, sand filtration, chlorination/dechlorination, excess flow treatment, aerobic sludge digestion and land application of sludge.

The design average flow (DAF) for the proposed facility is 4.7 million gallons per day (MGD) and the design maximum flow (DMF) for the proposed facility is 12 MGD. Treatment consists of screening, grit removal, activated sludge, sedimentation, sand filtration, chlorination/dechlorination, excess flow treatment, aerobic sludge digestion and land application of sludge.

This treatment works has an approved pretreatment program. There are 3 CIUs.

This Reissued Permit does not increase the facility's DAF, concentration limits, and/or load limits.

This Reissued Permit increases the facility's DMF.

Application is made for the existing discharge(s) which is (are) located in DuPage County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

<u>Discharge Number</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Addison Creek	41° 56' 54" North	87° 55' 30" West	General Use	Not Rated
002	Willow Creek	41° 58' 44" North	87° 56' 38" West	General Use	Not Rated
003	Addison Creek	41° 56' 54" North	87° 55' 48" West	General Use	Not Rated

To assist you further in identifying the location of the discharge(s) please see the attached map.

The stream segment(s) receiving (Waterbody Segment GLA-04) the discharge from outfall(s) 001 is (are) on the 303(d) list of impaired waters.

The following parameters have been identified as the pollutants causing impairment:

<u>Potential Causes</u>	<u>Uses Impaired</u>
alpha-BHC, alteration of stream-side vegetative cover (non-pollutant), copper, hexachlorobenzene, oil and grease, other flow regime alterations(non-pollutant), dissolved oxygen, polychlorinated biphenyls, total suspended solids, total phosphorus, sedimentation/siltation and visible oil	Aquatic life
Aquatic algae (non-pollutant) and bottom deposits	Aesthetic quality

The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): 001 STP Outfall (Existing Plant)

Load limits computed based on a design average flow (DAF) of 4.7 MGD (design maximum flow (DMF) of 10 MGD).

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Regulation	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
CBOD5**	392 (834)		784 (1,668)	10		20	35 IAC 304.120 40 CFR 133.102	
Suspended Solids**	470 (1,001)		941 (2,002)	12		24	35 IAC 304.120 40 CFR 133.102	
pH	Shall be in the range of 6 to 9 Standard Units						35 IAC 304.125	
Fecal Coliform	Daily Maximum shall not exceed 400 per 100 mL (May through October)						35 IAC 304.121	
Chlorine Residual							0.05	35 IAC 302.208
Ammonia Nitrogen:								
March.	71 (150)	176 (375)	259 (550)	1.8	4.5	6.6	35 IAC 355 and 35 IAC 302	
April-May/Sept.-Oct	59 (125)	176 (375)	278 (592)	1.5	4.5	7.1		
June-August	59 (125)	153 (325)	365 (776)	1.5	3.9	9.3		
Nov.-Feb	129 (275)		235 (500)	3.3		6.0		
Total Phosphorus (as P)***	39 (83)			1.0			35 IAC 304.124	
Chloride	Monitor Only							35 IAC 309.146
Dissolved Phosphorus	Monitor Only							35 IAC 309.146
Total Nitrogen	Monitor Only							35 IAC 309.146
Nitrate/Nitrite	Monitor Only							35 IAC 309.146
Total Kjeldahl Nitrogen (TKN)	Monitor Only							35 IAC 309.146
Alkalinity	Monitor Only							35 IAC 309.146
Temperature	Monitor Only							35 IAC 309.146
Dissolved Oxygen				Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum		
March-July				N/A	6.0	5.0	35 IAC 302.206	
August-February				5.5	4.0	3.5		

*Load Limits are calculated by using the formula: $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$.

**BOD₅ and Suspended Solids (85% removal required): In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105.

***A compliance schedule to provide the facility additional time to comply with the phosphorus limit has been included in this draft permit.

The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): 001 STP Outfall (Proposed Plant)

Load limits computed based on a design average flow (DAF) of 4.7 MGD (design maximum flow (DMF) of 12 MGD).

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Regulation	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
CBOD ₅ **	392 (1,001)		784 (2,002)	10		20	35 IAC 304.120 40 CFR 133.102	
Suspended Solids**	470 (1,201)		941 (2,402)	12		24	35 IAC 304.120 40 CFR 133.102	
pH	Shall be in the range of 6 to 9 Standard Units						35 IAC 304.125	
Fecal Coliform	Daily Maximum shall not exceed 400 per 100 mL (May through October)						35 IAC 304.121	
Chlorine Residual							0.05	35 IAC 302.208
Ammonia Nitrogen:								
March	71 (180)	176 (450)	259 (661)	1.8	4.5	6.6	35 IAC 355 and 35 IAC 302	
April-May/Sept.-Oct	59 (150)	176 (450)	278 (711)	1.5	4.5	7.1		
June-August	59 (150)	153 (390)	365 (931)	1.5	3.9	9.3		
Nov.-Feb.	129 (330)		235 (600)	3.3		6.0		
Total Phosphorus (as P) ***	39 (100)			1.0			35 IAC 304.123	
Chloride	Monitor Only							35 IAC 309.146
Dissolved Phosphorus	Monitor Only							35 IAC 309.146
Total Nitrogen	Monitor Only							35 IAC 309.146
Nitrate/Nitrite	Monitor Only							35 IAC 309.146
Total Kjeldahl Nitrogen (TKN)	Monitor Only							35 IAC 309.146
Alkalinity	Monitor Only							35 IAC 309.146
Temperature	Monitor Only							35 IAC 309.146
				Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum		
Dissolved Oxygen								
March-July				N/A	6.0	5.0	35 IAC 302.206	
August-February				5.5	4.0	3.5		

*Load Limits are calculated by using the formula: $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$.

**BOD₅ and Suspended Solids (85% removal required): In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105.

***A compliance schedule to provide the facility additional time to comply with the phosphorus limit has been included in this draft permit.

This Permit contains an authorization to treat and discharge excess flow as follows:

Discharge Number(s) and Name(s): 002 North STP Excess Flow Outfall (for flows in excess of 1,100 gpm and not exceeding 1,442 gpm)

<u>Parameter</u>	<u>CONCENTRATION LIMITS (mg/L)</u>		
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Regulation</u>
CBOD ₅ *	30	45	40 CFR 133.102
Suspended Solids*	30	45	40 CFR 133.102
Fecal Coliform	Daily Maximum Shall Not Exceed 400 per 100 mL		35 IAC 304.121
pH	Shall be in the range of 6 to 9 Standard Units		35 IAC 304.125
Chlorine Residual	0.75		35 IAC 304.208
Total Phosphorus (as P)	Monitor Only		35 IAC 309.146
Ammonia Nitrogen (N)	Monitor Only		35 IAC 309.146
Dissolved Oxygen	Monitor Only		35 IAC 309.146

*The 30-day average percent removal shall not be less than 85 percent.

This Permit contains an authorization to treat and discharge excess flow as follows:

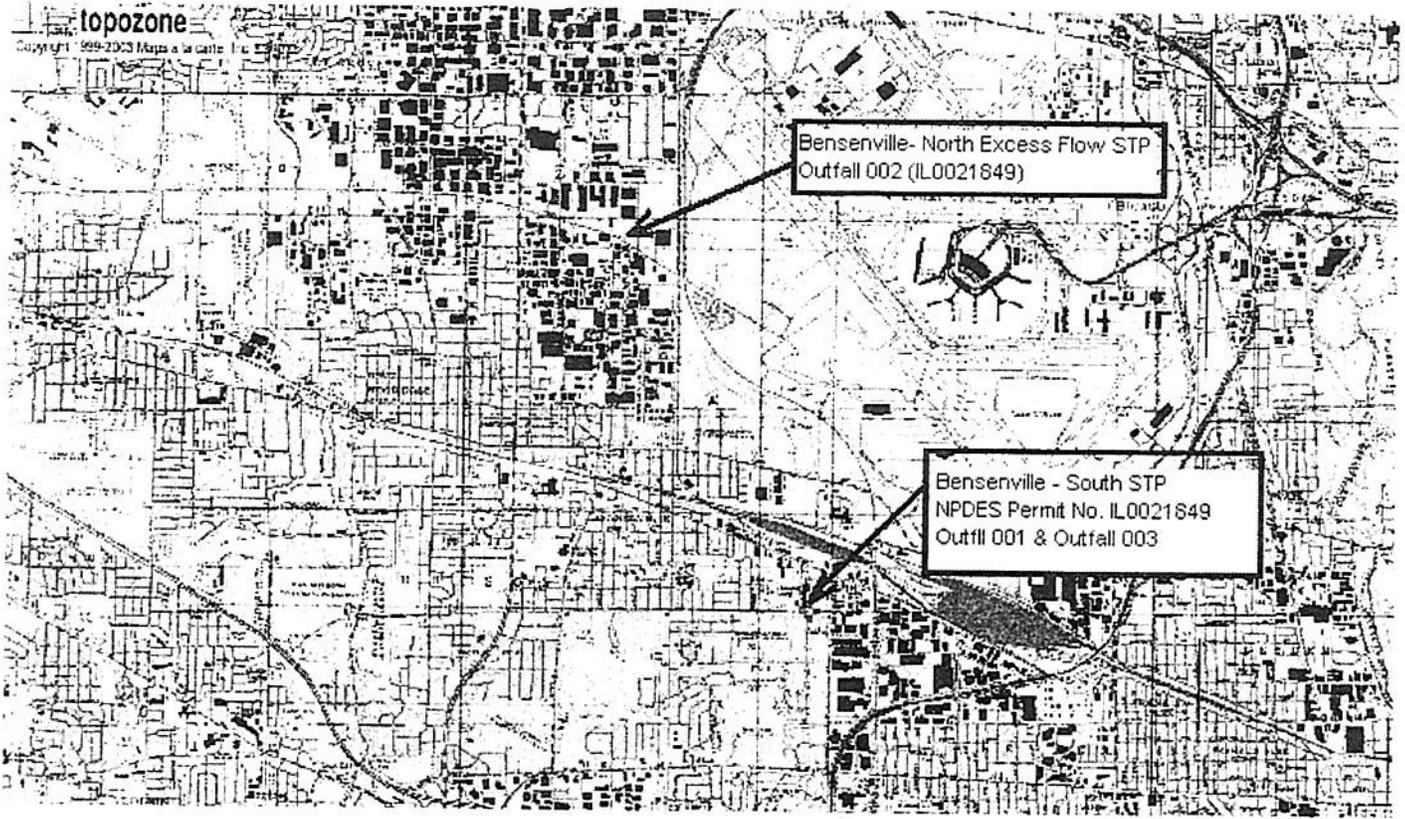
Discharge Number(s) and Name(s): 003 Excess Flow Outfall (existing plant flows in excess of 6,944 gpm and proposed flows in excess of 8,333 gpm)

<u>Parameter</u>	<u>CONCENTRATION LIMITS (mg/L)</u>		
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Regulation</u>
CBOD ₅ **	30	45	40 CFR 133.102
Suspended Solids**	30	45	40 CFR 133.102
Fecal Coliform	Daily Maximum Shall Not Exceed 400 per 100 mL		35 IAC 304.121
pH	Shall be in the range of 6 to 9 Standard Units		35 IAC 304.125
Chlorine Residual	0.75		35 IAC 304.208
Total Phosphorus (as P)	Monitor Only		35 IAC 309.146
Ammonia Nitrogen (N)	Monitor Only		35 IAC 309.146
Dissolved Oxygen	Monitor Only		35 IAC 309.146

*The 30-day average percent removal shall not be less than 85 percent.

This draft Permit also contains the following requirements as special conditions:

1. Reopening of this Permit to include different final effluent limitations.
2. Operation of the facility by or under the supervision of a certified operator.
3. Submission of the operational data in a specified form and at a required frequency at any time during the effective term of this Permit.
4. More frequent monitoring requirement without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.
5. Prohibition against causing or contributing to violations of water quality standards.
6. Recording the monitoring results on Discharge Monitoring Report Forms using one such form for each outfall each month and submitting the forms to IEPA each month.
7. The provisions of 40 CFR Section 122.41(m) & (n) are applicable and are hereby incorporated by reference.
8. Effluent sampling point location.
9. Controlling the sources of infiltration and inflow into the sewer system.
10. Seasonal fecal coliform limits.
11. The Permittee implements and administers an industrial pretreatment program pursuant to 40 CFR §403.
12. Submission of annual fiscal data.
13. A requirement for biomonitoring of the effluent.
14. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
15. Reopening of this Permit to include revised effluent limitations based on a Total Maximum Daily Load (TMDL) or other water quality study.
16. DuPage River/Salt Creek requirements.
17. Capacity, Management, Operations and Maintenance (CMOM) requirements.
18. Monitoring for Bromodichloromethane.
19. For Discharge Nos. 002 and 003, any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.75 mg/L (monthly average) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted on the DMRs on a monthly basis.
20. Compliance schedule for meeting phosphorus limits.



NPDES Permit No. IL0021849

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Village of Bensenville
12 South Center Street
Bensenville, Illinois 60106

Facility Name and Address:

Village of Bensenville - South STP
711 East Jefferson Street
Bensenville, Illinois 60106
(DuPage County)

Receiving Waters: Addison Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of the Ill. Adm. Code, Subtitle C, Chapter I, and the Clean Water Act (CWA), the above-named Permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the Effluent Limitation, Monitoring, and Reporting requirements; Special Conditions and Attachment H Standard Conditions attached herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the Permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:GY:11111601.bah

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall (Existing Plant)

Load limits computed based on a design average flow (DAF) of 4.7 MGD (design maximum flow (DMF) of 10 MGD).

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Flow (MGD)							Continuous	
CBOD ₅ ** ¹	392 (834)		784 (1,668)	10		20	2 Days/Week	Composite
Suspended Solids ¹	470 (1,001)		941 (2,002)	12		24	2 Days/Week	Composite
pH	Shall be in the range of 6 to 9 Standard Units						2 Days/Week	Grab
Fecal Coliform***	Daily Maximum shall not exceed 400 per 100 mL (May through October)						2 Days/Week	Grab
Chlorine Residual***						0.05	2 Days/Week	Grab
Ammonia Nitrogen: As (N)								
March	71 (150)	176 (375)	259 (550)	1.8	4.5	6.6	2 Days/Week	Composite
April-May/Sept.-Oct.	59 (125)	176 (375)	278 (592)	1.5	4.5	7.1	2 Days/Week	Composite
June-August	59 (125)	153 (325)	365 (776)	1.5	3.9	9.3	2 Days/Week	Composite
Nov.-Feb.	129 (275)		235 (500)	3.3		6.0	2 Days/Week	Composite
Total Phosphorus(as P) ²	39 (83)			1.0			2 Days/Week	Composite
Chloride	Monitor Only						1 Day/Month	Composite
Dissolved Phosphorus	Monitor Only						1 Day/Month	Composite
Total Nitrogen	Monitor Only						1 Day/Month	Composite
Nitrate/Nitrite	Monitor Only						1 Day/Month	Composite
Total Kjeldahl Nitrogen (TKN)	Monitor Only						1 Day/Month	Composite
Alkalinity	Monitor Only						1 Day/Month	Grab
Temperature	Monitor Only						1 Day/Month	Grab
				Monthly Average not less than	Weekly Average not less than	Daily Minimum		
Dissolved Oxygen								
March-July				N/A	6.0	5.0	2 Days/Week	Grab
August-February				5.5	4.0	3.5	2 Days/Week	Grab

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.

***See Special Condition 10.

(Continued on Next Page)

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall (Existing Plant) (Continued)

¹BOD₅ and Suspended Solids (85% removal required): In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105. The percent removal need not be reported to the IEPA on DMRs but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA or U.S. EPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBOD₅ concentration to determine the effluent BOD₅ concentration. Percent removal is a percentage expression of the removal efficiency across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of the raw wastewater influent concentrations to the facility and the 30-day average values of the effluent pollutant concentrations for a given time period.

²See Special Condition 20.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

Fecal Coliform shall be reported on the DMR as a daily maximum value.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

Total Phosphorus and Total Nitrogen shall be reported on the DMR as a monthly average daily maximum value.

Total Nitrogen shall be reported on the DMR as a daily maximum value.

Chloride shall be reported on the DMR as a daily maximum value.

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall (Proposed Plant)

Load limits computed based on a design average flow (DAF) of 4.7 MGD (design maximum flow (DMF) of 12 MGD).

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Sample Frequency	Samp Type	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum			
Flow (MGD)							Continuous		
CBOD ₅ ** ¹	392 (1,001)		784 (2,002)	10		20	2 Days/Week	Compo	
Suspended Solids ¹	470 (1,201)		941 (2,402)	12		24	2 Days/Week	Compo	
pH	Shall be in the range of 6 to 9 Standard Units							2 Days/Week	Grab
Fecal Coliform***	Daily Maximum shall not exceed 400 per 100 mL (May through October)							2 Days/Week	Grab
Chlorine Residual***							0.05	2 Days/Week	Grab
Ammonia Nitrogen: As (N)									
March.	71 (180)	176 (450)	259 (661)	1.8	4.5	6.6	2 Days/Week	Compos	
April -May/Sept.-Oct.	59 (150)	176 (450)	278 (711)	1.5	4.5	7.1	2 Days/Week	Compos	
June-August	59 (150)	153 (390)	365 (931)	1.5	3.9	9.3	2 Days/Week	Compos	
Nov.-Feb.	129 (330)		235 (600)	3.3		6.0	2 Days/Week	Compos	
Total Phosphorus (as P) ²	39 (100)						2 Days/Week	Compos	
Chloride	Monitor Only							1 Day/Month	Compos
Dissolved Phosphorus	Monitor Only							1 Day/Month	Compos
Total Nitrogen	Monitor Only							1 Day/Month	Compos
Nitrate/Nitrite	Monitor Only							1 Day/Month	Compos
Total Kjeldahl Nitrogen (TKN)	Monitor Only							1 Day/Month	Compos
Alkalinity	Monitor Only							1 Day/Month	Grab
Temperature	Monitor Only							1 Day/Month	Grab
				Monthly Average not less than	Weekly Average not less than	Daily Minimum			
Dissolved Oxygen									
March-July				N/A	6.0	5.0	2 Days/Week	Grab	
August-February				5.5	4.0	3.5	2 Days/Week	Grab	

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.

***See Special Condition 10.

¹ BOD₅ and Suspended Solids (85% removal required): In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105. The percent removal need not be reported to the IEPA on DMRs but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA or U.S. EPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBOD₅ concentration to determine the effluent BOD₅ concentration.

² Percent removal is a percentage expression of the removal efficiency across a treatment plant for a given pollutant average values of the raw wastewater influent concentrations to the facility and the 30-day average values of the effluent pollutant concentrations for a given time period.

³ See Special Condition 20.

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall (Proposed Plant) (Continued)

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

Fecal Coliform shall be reported on the DMR as a daily maximum value.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

Total Phosphorus and Total Nitrogen shall be reported on the DMR as a monthly average daily maximum value.

Total Nitrogen shall be reported on the DMR as a daily maximum value.

Chloride shall be reported on the DMR as a daily maximum value.

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Effluent, Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 002 North STP Excess Flow Outfall (for flows in excess of 1,100 gpm and not exceeding 1,442 gpm)

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

CONCENTRATION
LIMITS (mg/L)

<u>Parameter</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Total Flow (MG)			Daily When Discharging	Continuous
BOD ₅ **	30	45	Daily When Discharging	Grab
Suspended Solids**	30	45	Daily When Discharging	Grab
Fecal Coliform	Daily Maximum Shall not Exceed 400 per 100 mL		Daily When Discharging	Grab
pH	Shall be in the range of 6 to 9 Standard Units		Daily When Discharging	Grab
Chlorine Residua***I	0.75		Daily When Discharging	Grab
Ammonia Nitrogen as (N)	Monitor Only		Daily When Discharging	Grab
Total Phosphorus (as P)	Monitor Only		Daily When Discharging	Grab
Dissolved Oxygen	Monitor Only		Daily When Discharging	Grab

* An explanation shall be provided in the comment section of the DMR should these facilities be used for inlet sewer to the North STP pump station is not exceeding 1,100 gpm. The explanation shall identify the reasons the sewer is at a diminished capacity. Additionally, the Permittee shall comply with the provisions of Special Condition 7.

**The 30-day average percent removal shall not be less than 85 percent. The flows at the time that 002 North STP excess flow facilities are first utilized shall be reported in the comment section of the DMR in gallons per minute (gpm).

***See Special Condition 19.

Total flow in million gallons shall be reported on the Discharge Monitoring Report (DMR) in the quantity maximum column. The flows at the time that 002 North STP Excess Flow facilities are first utilized shall be reported in the comment section of the DMR in gallons per minute (gpm).

Report the number of days of discharge in the comments section of the DMR.

Fecal Coliform shall be reported on the DMR as daily maximum.

Chlorine Residual shall be reported on the DMR as a monthly average concentration.

pH shall be reported on the DMR as a minimum and a maximum.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly and weekly average concentration.

Ammonia Nitrogen shall be reported on the DMR as a daily maximum value.

Dissolved Oxygen shall be reported on the DMR as a minimum value.

Total Phosphorus shall be reported on the DMR as a daily maximum value.

All indicated grab samples of effluent for any particular day shall be taken within the initial one hour period of discharge.

There shall be no flow diverted to this facility until flow in the inlet sewer to the north STP pump station exceeds 1100 gpd.

Stored flow shall be bled back for complete treatment as soon as the flow in the inlet sewer to the north STP pump station falls below 1,100 gpm.

There shall be no discharge from outfall 002 unless the north excess flow storage capacity is fully utilized and the flow in the inlet sewer to the north STP pump station exceeds 1,100 gpm.

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Effluent, Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 003 Excess Flow Outfall (flows in excess of 6944 gpm for existing plant and 8,333 gpm in excess of proposed plant and in excess of 8, 333 gpm for the proposed permit)*

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

CONCENTRATION
LIMITS (mg/L)

<u>Parameter</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Total Flow (MG)			Daily When Discharging	Continuous
BOD5 **	30	45	Daily When Discharging	Grab
Suspended Solids**	30	45	Daily When Discharging	Grab
Fecal Coliform	Daily Maximum Shall not Exceed 400 per 100 mL		Daily When Discharging	Grab
pH	Shall be in the range of 6 to 9 Standard Units		Daily When Discharging	Grab
Chlorine Residual***	0.75		Daily When Discharging	Grab
Ammonia Nitrogen as (N)	Monitor Only		Daily When Discharging	Grab
Total Phosphorus (as P)	Monitor Only		Daily When Discharging	Grab
Dissolved Oxygen	Monitor Only		Daily When Discharging	Grab

* An explanation shall be provided in the comment section of the DMR should these facilities be used when the main treatment facility is not receiving Design Maximum Flow (DMF). The explanation shall identify the reasons the main facility is at a diminished treatment capacity. Additionally, the Permittee shall comply with the provisions of Special Condition 7.

**The 30-day average percent removal shall not be less than 85 percent.

***See Special Condition 19.

Total flow in million gallons shall be reported on the Discharge Monitoring Report (DMR) in the quantity maximum column. The main treatment facility flows at the time that 003 excess flow facilities are first utilized shall be reported in the comment section of the DMR in gallons per minute (gpm).

Report the number of days of discharge in the comments section of the DMR.

Fecal Coliform shall be reported on the DMR as daily maximum.

Chlorine Residual shall be reported on the DMR as monthly average concentration.

pH shall be reported on the DMR as a minimum and a maximum.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly and weekly average concentration.

Ammonia Nitrogen shall be reported on the DMR as a daily maximum value.

Dissolved Oxygen shall be reported on the DMR as a minimum value.

Total Phosphorus shall be reported on the DMR as a daily maximum value.

All indicated grab samples of effluent for any particular day shall be taken within the initial one hour period of discharge.

Stored flow shall be bled back for complete treatment as soon as the flow to the facility falls below design maximum flow (DMF).

There shall be no discharge from outfall 003 unless the north excess flow basin is full and the DMF (6,944MGD) is being taken through the plant for complete treatment.

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Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

<u>Parameter</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	
BOD ₅	2 Days/Week and Daily When Outfalls 002 or 003 are Discharging	Composite
Suspended Solids	2 Days/Week and Daily When Outfalls 002 or 003 are Discharging	Composite
Total Phosphorus (as P)	1 Day/Month	Composite
Total Nitrogen	1 Day/Month	Composite

Influent samples shall be taken at a point representative of the influent.

Flow (MGD) shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly average concentration.

Total Phosphorus and Total Nitrogen shall be reported on the DMR as a maximum value.

Special Conditions

SPECIAL CONDITION 1. This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws and regulations. The IEPA will public notice the permit modification.

SPECIAL CONDITION 2. The use or operation of this facility shall be by or under the supervision of a Certified Class 1 operator.

SPECIAL CONDITION 3. The IEPA may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this Permit.

SPECIAL CONDITION 4. The IEPA may request more frequent monitoring by permit modification pursuant to 40 CFR § 122.63 and Without Public Notice.

SPECIAL CONDITION 5. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 6. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using NetDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 7. The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein by reference.

SPECIAL CONDITION 8. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 9. This Permit may be modified to include requirements for the Permittee on a continuing basis to evaluate and detail its efforts to effectively control sources of infiltration and inflow into the sewer system and to submit reports to the IEPA if necessary.

SPECIAL CONDITION 10. Fecal Coliform limits for Discharge Number 001 are effective May thru October. Sampling of Fecal Coliform is only required during this time period.

The total residual chlorine limit is applicable at all times. If the Permittee is chlorinating for any purpose during the months of November through April, sampling is required on a daily grab basis. Sampling frequency for the months of May through October shall be as indicated on effluent limitations, monitoring and reporting page of this Permit.

SPECIAL CONDITION 11.

A. Publicly Owned Treatment Works (POTW) Pretreatment Program General Provisions

1. The Permittee shall implement and enforce its approved Pretreatment Program which was approved on November 19, 1985 and all approved subsequent modifications thereto. The Permittee shall maintain legal authority adequate to fully implement the Pretreatment Program in compliance with Federal (40 CFR 403), State, and local laws and regulations. All definitions in this section unless specifically otherwise defined in this section, are those definitions listed in 40 CFR 403.3. U.S. EPA Region 5 is the Approval Authority for the administration of pretreatment programs in Illinois. The Permittee shall:
 - a. Develop and implement procedures to ensure compliance with the requirements of a pretreatment program as specified in 40 CFR 403.8(f)(2)
 - b. Carry out independent inspection and monitoring procedures at least once per year, which will determine whether each significant industrial user (SIU) is in compliance with applicable pretreatment standards;

Special Conditions

- c. Evaluate whether each SIU needs a slug control plan or other action to control slug discharges. If needed, the SIU slug control plan shall include the items specified in 40 CFR 403.8(f)(2)(vi). For IUs identified as significant prior to November 14, 2005, this evaluation must have been conducted at least once by October 14, 2006; additional SIUs must be evaluated within 1 year of being designated an SIU;
 - d. Update its inventory of Industrial Users (IUs) at least annually and as needed to ensure that all SIUs are properly identified, characterized, and categorized;
 - e. Receive and review self monitoring and other IU reports to determine compliance with all pretreatment standards and requirements, and obtain appropriate remedies for noncompliance by any IU with any pretreatment standard and/or requirement;
 - f. Investigate instances of noncompliance, collect and analyze samples, and compile other information with sufficient care as to produce evidence admissible in enforcement proceedings, including judicial action;
 - g. Require development, as necessary, of compliance schedules by each industrial user to meet applicable pretreatment standards; and,
 - h. Maintain an adequate revenue structure and staffing level for continued operation of the Pretreatment Program.
2. The Permittee shall issue/reissue permits or equivalent control mechanisms to all SIUs prior to expiration of existing permits or prior to commencement of discharge in the case of new discharges. The permits at a minimum shall include the elements listed in 40 CFR § 403.8(f)(1)(iii)(B).
 3. The Permittee shall develop, maintain, and enforce, as necessary, local limits to implement the general and specific prohibitions in 40 CFR § 403.5 which prohibit the introduction of any pollutant(s) which cause pass through or interference and the introduction of specific pollutants to the waste treatment system from any source of nondomestic discharge.
 4. In addition to the general limitations expressed in Paragraph 3 above, applicable pretreatment standards must be met by all industrial users of the POTW. These limitations include specific standards for certain industrial categories as determined by Section 307(b) and (c) of the Clean Water Act, State limits, or local limits, whichever are more stringent.
 5. The USEPA and IEPA individually retain the right to take legal action against any industrial user and/or the POTW for those cases where an industrial user has failed to meet an applicable pretreatment standard by the deadline date regardless of whether or not such failure has resulted in a permit violation.
 6. The Permittee shall establish agreements with all contributing jurisdictions, as necessary, to enable it to fulfill its requirements with respect to all IUs discharging to its system.
 7. Unless already completed, the Permittee shall within six (6) months of the effective date of this Permit submit to USEPA and IEPA a proposal to modify and update its approved Pretreatment Program to incorporate Federal revisions to the general pretreatment regulations. The proposal shall include all changes to the approved program and the sewer use ordinance which are necessary to incorporate the revisions of the Pretreatment Streamlining Rule (which became effective on November 14, 2005), which are considered required changes, as described in the Pretreatment Streamlining Rule Fact Sheet 2.0: Required changes, available at: http://cfpub.epa.gov/npdes/whatsnew.cfm?program_id=3. This includes any necessary revisions to the Permittee's Enforcement Response Plan (ERP).
 8. Within 6 months from the effective date of this permit, the Permittee shall conduct a technical re-evaluation of its local limitations consistent with U.S. EPA's Local Limits Development Guidance (July 2004), and submit the evaluation and any proposed revisions to its local limits to IEPA and U.S. EPA Region 5 for review and approval. U.S. EPA Region 5 will request Permittee to submit the evaluation and any proposed revisions to its local limits on the spreadsheet found at <http://www.epa.gov/region5/water/npdestek/Localmt.xlsx>. To demonstrate technical justification for new local industrial user limits or justification for retaining existing limits, the following information must be submitted to U.S. EPA:
 - a. Total plant flow
 - b. Domestic/commercial pollutant contributions for pollutants of concern
 - c. Industrial pollutant contributions and flows
 - d. Current POTW pollutant loadings, including loadings of conventional pollutants
 - e. Actual treatment plant removal efficiencies, as a decimal (primary, secondary, across the wastewater treatment plant)
 - f. Safety factor to be applied
 - g. Identification of applicable criteria:
 - i. NPDES permit conditions

Special Conditions

- Specific NPDES effluent limitations
- Water-quality criteria
- Whole effluent toxicity requirements
- Criteria and other conditions for sludge disposal
- ii. Biological process inhibition
 - Nitrification
 - Sludge digester
- iii. Collection system problems
- h. The Permittee's sludge disposal methods (land application, surface disposal, incineration, landfill)
- i. Sludge flow to digester
- j. Sludge flow to disposal
- k. % solids in sludge to disposal, not as a decimal
- l. % solids in sludge to digester, not as a decimal
- m. Plant removal efficiencies for conventional pollutants
- n. If revised industrial user discharge limits are proposed, the method of allocating available pollutants loads to industrial users
- o. A comparison of maximum allowable headworks loadings based on all applicable criteria listed in g, above
- p. Pollutants that have caused:
 - i. Violations or operational problems at the POTW, including conventional pollutants
 - ii. Fires and explosions
 - iii. Corrosion
 - iv. Flow obstructions
 - v. Increased temperature in the sewer system
 - vi. Toxic gases, vapors or fumes that caused acute worker health and safety problems
 - vii. Toxicity found through Whole Effluent Toxicity testing
 - viii. Inhibition
- q. Pollutants designated as "monitoring only" in the NPDES permit
- r. Supporting data, assumptions, and methodologies used in establishing the information a through q above

The Permittee Pretreatment Program has been modified to incorporate a Pretreatment Program Amendment approved by U.S. EPA on November 18, 1999. The amendment became effective on the date of approval and is a fully enforceable provision of your Pretreatment Program.

Modifications of your Pretreatment Program shall be submitted in accordance with 40 CFR § 403.18, which established conditions for substantial and non-substantial modifications. All requests should be sent in electronic format to r5npdes@epa.gov, Attention: NPDES Program Branch.

B. Reporting and Records Requirements

1. The Permittee shall provide an annual report briefly describing the permittee's pretreatment program activities over the previous calendar year. Permittees who operate multiple plants may provide a single report providing all plant-specific reporting requirements are met. Such report shall be submitted no later than April 28 of each year to USEPA, Region 5, 77 West Jackson Blvd., Chicago, Illinois 60604, Attention: Water Enforcement & Compliance Assurance Branch, and shall be in the format set forth in IEPA's POTW Pretreatment Report Package which contains information regarding:
 - a. An updated listing of the Permittee's significant industrial users, indicating additions and deletions from the previous year, along with brief explanations for deletions. The list shall specify which categorical Pretreatment standards, if any, are applicable to each Industrial User.
 - b. A descriptive summary of the compliance activities including numbers of any major enforcement actions, (i.e., administrative orders, penalties, civil actions, etc.), and the outcome of those actions. This includes an assessment of the compliance status of the Permittee's industrial users and the effectiveness of the Permittee's Pretreatment Program in meeting its needs and objectives.
 - c. A description of all substantive changes made to the Permittee's Pretreatment Program. Changes which are "substantial modifications" as described in 40 CFR § 403.18(c) must receive prior approval from the USEPA.
 - d. Results of sampling and analysis of POTW influent, effluent, and sludge.

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- e. A summary of the findings from the priority pollutants sampling. As sufficient data becomes available the IEPA may modify this Permit to incorporate additional requirements relating to the evaluation, establishment, and enforcement of local limits for organic pollutants. Any permit modification is subject to formal due process procedures pursuant to State and Federal law and regulation. Upon a determination that an organic pollutant is present that causes interference or pass through, the Permittee shall establish local limits as required by 40 CFR § 403.5(c).
2. The Permittee shall maintain all pretreatment data and records for a minimum of three (3) years. This period shall be extended during the course of unresolved litigation or when requested by the IEPA or the Regional Administrator of USEPA. Records shall be available to USEPA and the IEPA upon request.
 3. The Permittee shall establish public participation requirements of 40 CFR 25 in implementation of its Pretreatment Program. The Permittee shall at least annually, publish the names of all IU's which were in significant noncompliance (SNC), as defined by 40 CFR § 403.8(f)(2)(viii), in a newspaper of general circulation that provides meaningful public notice within the jurisdictions served by the Permittee or based on any more restrictive definition of SNC that the POTW may be using.
 4. The Permittee shall provide written notification to the USEPA, Region 5, 77 West Jackson Blvd., Chicago, Illinois 60604, Attention: NPDES Programs Branch and to the Deputy Counsel for the Division of Water Pollution Control, IEPA, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 within five (5) days of receiving notice that any Industrial User of its sewage treatment plant is appealing to the Circuit Court any condition imposed by the Permittee in any permit issued to the Industrial User by Permittee. A copy of the Industrial User's appeal and all other pleadings filed by all parties shall be mailed to the Deputy Counsel within five (5) days of the pleadings being filed in Circuit Court.
- C. Monitoring Requirements
1. The Permittee shall monitor its influent, effluent and sludge and report concentrations of the following parameters on monitoring report forms provided by the IEPA and include them in its annual report. Samples shall be taken at semi-annual intervals at the indicated reporting limit or better and consist of a 24-hour composite unless otherwise specified below. Sludge samples shall be taken of final sludge and consist of a grab sample reported on a dry weight basis.

STORET CODE	PARAMETER	Minimum reporting limit
01097	Antimony	0.07 mg/L
01002	Arsenic	0.05 mg/L
01007	Barium	0.5 mg/L
01012	Beryllium	0.005 mg/L
01027	Cadmium	0.001 mg/L
01032	Chromium (hex) (grab not to exceed 24 hours)*	0.01 mg/L
01034	Chromium (total)	0.05 mg/L
01042	Copper	0.005 mg/L
00718	Cyanide (grab)*(available **** or amenable to chlorination)	5.0 ug/L
00720	Cyanide (total) (grab)	5.0 ug/L
00951	Fluoride*	0.1 mg/L
01045	Iron (total)	0.5 mg/L
01046	Iron (Dissolved)*	0.5 mg/L
01051	Lead	0.05 mg/L
01055	Manganese	0.5 mg/L
71900	Mercury (effluent grab)***	1.0 ng/L**
01067	Nickel	0.005 mg/L
00556	Oil (hexane soluble or equivalent) (Grab Sample only)*	5.0 mg/L
32730	Phenols (grab)	0.005 mg/L
01147	Selenium	0.005 mg/L
01077	Silver (total)	0.003 mg/L
01059	Thallium	0.3 mg/L
01092	Zinc	0.025 mg/L

* Influent and effluent only

**1 ng/L = 1 part per trillion.

***Utilize USEPA Method 1631E and the digestion procedure described in Section 11.1.1.2 of 1631E, other approved methods may be used for influent (composite) and sludge.

****USEPA Method OIA - 1617.

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Minimum reporting limits are defined as: (1) The minimum value below which data are documented as non-detects. (2) Three to ten times the method detection limit. (3) The minimum value of the calibration range.

All samples containers, preservatives, holding times, analyses, method detection limit determinations and quality assurance/quality control requirements shall be in accordance with 40 CFR 136.

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined including all oxidation states. Where constituents are commonly measured as other than total, the phase is so indicated.

2. The Permittee shall conduct an analysis for the one hundred and ten (110) organic priority pollutants identified in 40 CFR 122 Appendix D, Table II as amended. This monitoring shall be done annually and reported on monitoring report forms provided by the IEPA and shall consist of the following:
 - a. The influent and effluent shall be sampled and analyzed for the one hundred and ten (110) organic priority pollutants. The sampling shall be done during a day when industrial discharges are expected to be occurring at normal to maximum levels.

Samples for the analysis of acid and base/neutral extractable compounds shall be 24-hour composites.

Five (5) grab samples shall be collected each monitoring day to be analyzed for volatile organic compounds. A single analysis for volatile pollutants (Method 624) may be run for each monitoring day by compositing equal volumes of each grab sample directly in the GC purge and trap apparatus in the laboratory, with no less than one (1) mL of each grab included in the composite.

Wastewater samples must be handled, prepared, and analyzed by GC/MS in accordance with USEPA Methods 624 and 625 of 40 CFR 136 as amended.
 - b. The sludge shall be sampled and analyzed for the one hundred and ten (110) organic priority pollutants. A sludge sample shall be collected concurrent with a wastewater sample and taken as final sludge.

Sampling and analysis shall conform to USEPA Methods 624 and 625 unless an alternate method has been approved by IEPA.
 - c. Sample collection, preservation and storage shall conform to approved USEPA procedures and requirements.
3. In addition, the Permittee shall monitor any new toxic substances as defined by the Clean Water Act, as amended, following notification by the IEPA or U.S. EPA.
4. Permittee shall report any noncompliance with effluent or water quality standards in accordance with Standard Condition 12(f) of this Permit.
5. Analytical detection limits shall be in accordance with 40 CFR 136. Minimum detection limits for sludge analyses shall be in accordance with 40 CFR 503.

D. Pretreatment Reporting

US EPA Region 5 is the approval Authority for administering the pretreatment program in Illinois. All requests for modification of pretreatment program elements should be submitted in redline/strikeout electronic format and must be sent to US EPA at r5npdes@epa.gov.

Permittee shall upon notice from US EPA, modify any pretreatment program element found to be inconsistent with 40 CFR 403.

SPECIAL CONDITION 12. During January of each year the Permittee shall submit annual fiscal data regarding sewerage system operations to the Illinois Environmental Protection Agency/Division of Water Pollution Control/Compliance Assurance Section. The Permittee may use any fiscal year period provided the period ends within twelve (12) months of the submission date.

Submission shall be on forms provided by IEPA titled "Fiscal Report Form For NPDES Permittees".

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SPECIAL CONDITION 13. The Permittee shall conduct biomonitoring of the effluent from Discharge Number(s) 001.

Biomonitoring

1. Acute Toxicity - Standard definitive acute toxicity tests shall be run on at least two trophic levels of aquatic species (fish, invertebrate) representative of the aquatic community of the receiving stream. Testing must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA/821-R-02-012. Unless substitute tests are pre-approved; the following tests are required:
 - a. Fish - 96 hour static LC₅₀ Bioassay using fathead minnows (*Pimephales promelas*).
 - b. Invertebrate 48-hour static LC₅₀ Bioassay using *Ceriodaphnia*.
2. Testing Frequency - The above tests shall be conducted using 24-hour composite samples unless otherwise authorized by the IEPA. Samples must be collected in the 18th, 15th, 12th, and 9th month prior to the expiration date of this Permit.
3. Reporting - Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory. Reports are due to the IEPA no later than the 16th, 13th, 10th, and 7th month prior to the expiration date of this Permit.
4. Toxicity - Should a bioassay result in toxicity to >20% of organisms test in the 100% effluent treatment, the IEPA may require, upon notification, six (6) additional rounds of monthly testing on the affected organism(s) to be initiated within 30 days of the toxic bioassay. Results shall be submitted to IEPA within (1) week of becoming available to the Permittee. Should any of the additional bioassays result in toxicity to $\geq 50\%$ of organisms tested in the 100% effluent treatments, the Permittee shall immediately notify IEPA in writing of the test results.
5. Toxicity Reduction Evaluation and Identification - Should the biomonitoring program identify toxicity and result in notification by IEPA, the permittee shall develop a plan for toxicity reduction evaluation and identification. This plan shall be developed and implemented in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days of notification date of the permittee above or other such date as is received by letter from IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results and toxicity reduction evaluation, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants and additional whole effluent toxicity monitoring to confirm the results of the evaluation. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 14. For the duration of this Permit, the Permittee shall determine the quantity of sludge produced by the treatment facility in dry tons or gallons with average percent total solids analysis. The Permittee shall maintain adequate records of the quantities of sludge produced and have said records available for U.S. EPA and IEPA inspection. The Permittee shall submit to the IEPA, at a minimum, a semi-annual summary report of the quantities of sludge generated and disposed of, in units of dry tons or gallons (average total percent solids) by different disposal methods including but not limited to application on farmland, application on reclamation land, landfilling, public distribution, dedicated land disposal, sod farms, storage lagoons or any other specified disposal method. Said reports shall be submitted to the IEPA by January 31 and July 31 of each year reporting the preceding January thru June and July thru December interval of sludge disposal operations.

Duty to Mitigate. The Permittee shall take all reasonable steps to minimize any sludge use or disposal in violation of this Permit.

Sludge monitoring must be conducted according to test procedures approved under 40 CFR 136 unless otherwise specified in 40 CFR 503, unless other test procedures have been specified in this Permit.

Planned Changes. The Permittee shall give notice to the IEPA on the semi-annual report of any changes in sludge use and disposal.

The Permittee shall retain records of all sludge monitoring, and reports required by the Sludge Permit as referenced in Standard Condition 25 for a period of at least five (5) years from the date of this Permit.

If the Permittee monitors any pollutant more frequently than required by this permit or the Sludge Permit, the results of this monitoring shall be included in the reporting of data submitted to the IEPA.

Special Conditions

The Permittee shall comply with existing federal regulations governing sewage sludge use or disposal and shall comply with all existing applicable regulations in any jurisdiction in which the sewage sludge is actually used or disposed.

The Permittee shall comply with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish the standards for sewage sludge use or disposal even if the permit has not been modified to incorporate the requirement.

The Permittee shall ensure that the applicable requirements in 40 CFR Part 503 are met when the sewage sludge is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator.

Monitoring reports for sludge shall be reported on the form titled "Sludge Management Reports" to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Mail Code #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 15. This Permit may be modified to include alternative or additional final effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) Study or upon completion of an alternate Water Quality Study.

SPECIAL CONDITON 16.

1. The Permittee shall participate in the DuPage River Salt Creek Workgroup (DRSCW). The Permittee shall work with other watershed members of the DRSCW to determine the most cost effective means to remove dissolved oxygen (DO) and offensive condition impairments in the DRSCW watersheds.
2. The Permittee shall participate in implementation of a watershed Chloride Reduction Program, either directly or through the DRSCW. The program shall work to decrease DRSCW watershed public agency chloride application rates used for winter road safety, with the objective of decreasing watershed chloride loading. The Permittee shall submit an annual report on the annual implementation of the program identifying the practices deployed, chloride application rates, estimated reductions achieved, analyses of watershed chloride loads, precipitation, air temperature conditions and relative performance compared to a baseline condition. The report shall be provided to the Agency by March 31 of each year reflecting the Chloride Abatement Program performance for the preceding year (example: 2015-16 winter season report shall be submitted no later than March 31, 2017). The Permittee may work cooperatively with the DRSCW to prepare a single annual progress report that is common among DRSCW Permittees.
3. The Permittee shall develop a written Phosphorus Discharge Optimization Plan. In developing the plan, the Permittee shall evaluate a range of measures for reducing phosphorus discharges from the treatment plant, including possible source reduction measures, operational improvements, and minor low cost facility modifications that will optimize reductions in phosphorus discharges from the wastewater treatment facility. The Permittee's evaluation shall include, but not necessarily be limited to, an evaluation of the following optimization measures:
 - a. WWTF influent reduction measures.
 - i. Evaluate the phosphorus reduction potential of users.
 - ii. Determine which sources have the greatest opportunity for reducing phosphorus (e.g., industrial, commercial, institutional, municipal, and others).
 1. Determine whether known sources (e.g., restaurant and food preparation) can adopt phosphorus minimization and water conservation plans.
 2. Evaluate implementation of local limits on influent sources of excessive phosphorus.
 - b. WWTF effluent reduction measures.
 - i. Reduce phosphorus discharges by optimizing existing treatment processes without causing non-compliance with permit effluent limitations or adversely impacting stream health.
 1. Adjust the solids retention time for biological phosphorus removal.
 2. Adjust aeration rates to reduce DO and promote biological phosphorus removal.
 3. Change aeration settings in plug flow basins by turning off air or mixers at the inlet side of the basin system.
 4. Minimize impact on recycle streams by improving aeration within holding tanks.
 5. Adjust flow through existing basins to enhance biological nutrient removal.
 6. Increase volatile fatty acids for biological phosphorus removal.

Special Conditions

4. Within 24 months of the effective date of this permit, the Permittee shall finalize the written Phosphorus Discharge Optimization Evaluation Plan and submit it to IEPA. The plan shall include a schedule for implementing all of the evaluated optimization measures that can practically be implemented and include a report that explains the basis for rejecting any measure that was deemed impractical. The schedule for implementing all practical measures shall be no longer than 36 months after the effective date of this permit. The Permittee shall implement the measures set forth in the Phosphorus Discharge Optimization Plan in accordance with the schedule set forth in that Plan. The Permittee shall modify the Plan to address any comments that it receives from IEPA and shall implement the modified plan in accordance with the schedule therein.
- Annual progress reports on the optimization of the existing treatment facilities shall be submitted to the Agency by March 31 of each year beginning 24 months from the effective date of the permit.
5. The Permittee shall, within 24 months of the effective date of this permit, complete a feasibility study that evaluates the timeframe, and construction and O & M costs of reducing phosphorus levels in its discharge to a level consistently meeting a limit of 1 mg/L, 0.5 mg/L and 0.1 mg/L utilizing a range of treatment technologies including, but not necessarily limited to, biological phosphorus removal, chemical precipitation, or a combination of the two. The study shall evaluate the construction and O & M costs of the different treatment technologies for these limits on a monthly, seasonal, and annual average basis. For each technology and each phosphorus discharge level evaluated, the study shall also evaluate the amount by which the Permittee's typical household annual sewer rates would increase if the Permittee constructed and operated the specific type of technology to achieve the specific phosphorus discharge level. Within 24 months of the effective date of this Permit, the Permittee shall submit to the Agency and the DRSCW a written report summarizing the results of the study.
6. The Permittee shall monitor the wastewater effluent, consistent with the monitoring requirements of Page 2 of this permit, for total phosphorus, dissolved phosphorus, nitrate/nitrite, total Kjeldahl nitrogen (TKN), ammonia, total nitrogen (calculated), alkalinity and temperature at least once a month. The Permittee shall monitor the wastewater influent for total phosphorus and total nitrogen at least once a month. The results shall be submitted on NetDMRs to the Agency unless otherwise specified by the Agency.
7. The Permittee shall submit a Nutrient Implementation Plan (NIP) for the DRSCW watersheds that identifies phosphorus input reductions by point source discharges, non-point source discharges and other measures necessary to remove DO and offensive condition impairments and meet the applicable dissolved oxygen criteria in 35 IL Adm. Code 302.206 and the narrative offensive aquatic algae criteria in 35 IL Adm. Code 302.203. The NIP shall also include a schedule for implementation of the phosphorus input reductions and other measures. The Permittee may work cooperatively with the DRSCW to prepare a single NIP that is common among DRSCW permittees. The NIP shall be submitted to the Agency by December 31, 2023.

SPECIAL CONDITION 17. The Permittee shall work towards the goals of achieving no discharges from sanitary sewer overflows or basement back-ups and ensuring that overflows or back-ups, when they do occur do not cause or contribute to violations of applicable standards or cause impairment in any adjacent receiving water. Overflows from sanitary sewers are expressly prohibited by this Permit and by Ill. Adm. Code 306.304. In order to accomplish these goals of complying with this prohibition and mitigating the adverse impacts of any such overflows if they do occur, the Permittee shall (A) identify and report to IEPA all SSOs that do occur, and (B) develop, implement and submit to the IEPA a Capacity, Management, Operations, and Maintenance (CMOM) plan which includes an Asset Management strategy within twelve (12) months of the effective date of this Permit or review and revise any existing plan accordingly. The permittee shall modify the Plan to incorporate any comments that it receives from IEPA and shall implement the modified plan as soon as possible. The Permittee should work as appropriate, in consultation with affected authorities at the local, county, and/or state level to develop the plan components involving third party notification of overflow events. The Permittee may be required to construct additional sewage transport and/or treatment facilities in future permits or other enforceable documents should the implemented CMOM plan indicate that the Permittee's facilities are not capable of conveying and treating the flow for which they were designed.

A. Measures and Activities:

1. A complete map and system inventory for the collection system owned and operated by the Permittee;
2. Organizational structure; budgeting; training of personnel; legal authorities; schedules for maintenance, sewer system cleaning, and preventative rehabilitation; checklists, and mechanisms to ensure that preventative maintenance is performed on equipment owned and operated by the Permittee;
3. Documentation of unplanned maintenance;
4. An assessment of the capacity of the collection and treatment system owned and operated by the Permittee at critical junctions and immediately upstream of locations where overflows and backups occur or are likely to occur; use flow monitoring as necessary;
5. Identification and prioritization of structural deficiencies in the system owned and operated by the Permittee;
6. Operational control, including documented system control procedures, scheduled inspections and testing;
7. The Permittee shall develop and implement an Asset Management strategy to ensure the long-term sustainability of the collection system. Asset Management shall be used to assist the Permittee in making decisions on when it is most appropriate to repair, replace or rehabilitate particular assets and develop long-term funding strategies; and
8. Asset Management shall include but is not limited to the following elements:

Special Conditions

- a. Asset Inventory and State of the Asset;
- b. Level of Service;
- c. Critical Asset Identification;
- d. Life Cycle Cost; and
- e. Long-Term Funding Strategy.

B. Design and Performance Provisions:

1. Monitor the effectiveness of CMOM;
2. Upgrade the elements of the CMOM plan as necessary; and
3. Maintain a summary of CMOM activities.

C. Overflow Response Plan:

1. Know where overflows and back-ups within the facilities owned and operated by the Permittee occur;
2. Respond to each overflow or back-up to determine additional actions such as clean up; and
3. Locations where basement back-ups and/or sanitary sewer overflows occur shall be evaluated as soon as practicable for excessive inflow/infiltration, obstructions or other causes of overflows or back-ups as set forth in the System Evaluation Plan.

D. System Evaluation Plan:

1. Summary of existing SSO and Excessive I/I areas in the system and sources of contribution;
2. Evaluate plans to reduce I/I and eliminate SSOs;
3. Special provisions for Pump Stations and force mains and other unique system components; and
4. Construction plans and schedules for correction.

E. Reporting and Monitoring Requirements:

1. Program for SSO detection and reporting; and
2. Program for tracking and reporting basement back-ups, including general public complaints.

F. Third Party Notice Plan:

1. Describes how, under various overflow scenarios, the public, as well as other entities, would be notified of overflows within the Permittee's system that may endanger public health, safety or welfare;
2. Identifies overflows within the Permittee's system that would be reported, giving consideration to various types of events including events with potential widespread impacts;
3. Identifies who shall receive the notification;
4. Identifies the specific information that would be reported including actions that will be taken to respond to the overflow;
5. Includes a description of the lines of communication; and
6. Includes the identities and contact information of responsible POTW officials and local, county, and/or state level officials.

For additional information concerning USEPA CMOM guidance and Asset Management please refer to the following web site addresses.
http://www.epa.gov/npdes/pubs/cmom_guide_for_collection_systems.pdf and
http://water.epa.gov/type/watersheds/wastewater/upload/guide_smallsystems_assetmanagement_bestpractices.pdf

SPECIAL CONDITION 18. The Permittee shall monitor the effluent for the following parameters twice a month for a period of five (5) consecutive months, beginning three (3) months from the effective date of this Permit. This Permit may be modified with public notice to establish effluent limitations if appropriate, based on information obtained through sampling. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted on the DMR's to IEPA. The parameters to be sampled and the minimum reporting limits to be attained are as follows:

<u>PARAMETER</u>	<u>Minimum reporting limit</u>
Bromodichloromethane	0.001 mg/L

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

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SPECIAL CONDITION 19. For Discharge Nos. 002 and 003, any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.75 mg/L (monthly average) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted on the DMRs on a monthly basis.

SPECIAL CONDITION 20. The Total Phosphorus (as P) concentration limit of 1.0 mg/L (Monthly Average) and associated load limits on page 2 of this Permit shall become effective three and one-half (3 1/2) years from the effective date of this Permit.

In order for the Permittee to achieve the above limit, it will be necessary to modify existing treatment facilities to include phosphorus removal, reduce phosphorus sources or explore other ways to prevent discharges that exceed the limit. The Permittee must implement the following compliance measures consistent with the schedule below

- | | |
|--|---|
| A. Interim Report on Phosphorus Removal Feasibility Report and Optimization Plan | 6 months from effective date of permit |
| B. Interim Report on Phosphorus Removal Feasibility Report and Optimization Plan | 12 months from effective date of permit |
| C. Interim Report on Phosphorus Removal Feasibility Report and Optimization Plan | 18 months from effective date of permit |
| D. Phosphorus Removal Feasibility Report and Optimization Plan Submitted | 24 months from effective date of permit |
| E. Plans and Specifications Submitted | 30 months from effective date of permit |
| F. Progress Report on Construction | 36 months from effective date of permit |
| G. Achieve Concentration and Loading Effluent Limitations for Total Phosphorus | 42 months from effective date of permit |

This Permit may be modified, with Public Notice, to include revised compliance dates.

REPORTING

The Permittee shall submit a report no later than fourteen (14) days following the completion dates indicated for each lettered item in the compliance schedule, indicating, a) the date the item was completed, or b) that the item was not completed, the reasons for non-completion and the anticipated completion date.

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

30-Day Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

- (1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.
- (2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.
- (3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- (5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.
- (6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- (7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.
- (8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

- 9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:
- Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

10) **Monitoring and records.**

- Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.
- Records of monitoring information shall include:
 - The date, exact place, and time of sampling or measurements;
 - The individual(s) who performed the sampling or measurements;
 - The date(s) analyses were performed;
 - The individual(s) who performed the analyses;
 - The analytical techniques or methods used; and
 - The results of such analyses.
- Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.

- Application.** All permit applications shall be signed as follows:
 - For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation;
 - For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
- Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a); and

- The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and
 - The written authorization is submitted to the Agency.
- Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.
 - Certification.** Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(12) **Reporting requirements.**

- Planned changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:
 - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29 (b); or
 - The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).
 - The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- Transfers.** This permit is not transferable to any person except after notice to the Agency.
- Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - Monitoring results must be reported on a Discharge Monitoring Report (DMR).

- (2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- (3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.
- (f) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:
- (1) Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - (2) Any upset which exceeds any effluent limitation in the permit.
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.
- The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24-hours.
- (g) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).
- (h) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.
- (13) **Bypass.**
- (a) Definitions.
 - (1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
 - (2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - (b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).
 - (c) Notice.
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
 - (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).
 - (d) Prohibition of bypass.
 - (1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:
 - (i) Bypass was unavoidable to prevent loss of life personal injury, or severe property damage;
 - (ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (iii) The permittee submitted notices as required under paragraph (13)(c).
 - (2) The Agency may approve an anticipated bypass after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).
- (14) **Upset.**
- (a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - (b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - (c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated; and
 - (3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).
 - (4) The permittee complied with any remedial measures required under paragraph (4).
 - (d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.
- (15) **Transfer of permits.** Permits may be transferred by modification or automatic transfer as described below:
- (a) Transfers by modification. Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.
 - (b) Automatic transfers. As an alternative to transfers under paragraph (a), any NPDES permit may be automatically transferred to a new permittee if:

- (1) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
 - (2) The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage and liability between the existing and new permittees; and
 - (3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.
- 16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
 - (4) The level established by the Agency in this permit.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.
- 17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
- (a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- 18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
- (a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
 - (b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and
 - (c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.
- 19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.
- (20) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.
- (21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.
- (22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).
- (23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.
- (24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.
- (25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- (26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.
- (27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.
- (28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

(Rev. 7-9-2010 bah)

RESOLUTION NO.

**AUTHORIZING THE APPROVAL OF A PURCHASE ORDER TO THE
DUPAGE RIVER / SALT CREEK WORKGROUP (DRSCW) FOR THE 2017/2018
ANNUAL DUES IN THE AMOUNT OF \$ 13,567.00**

WHEREAS the VILLAGE OF BENSENVILLE (hereinafter "Village") is a municipal corporation established and existing under the laws of the State of Illinois pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *es seq*, and

WHEREAS the VILLAGE is empowered to make all agreements, contracts, and engagements and to undertake other acts as necessary in the exercise of its statutory powers, and

WHEREAS the Village of Bensenville (the "Village") owns and operates a Wastewater Treatment Plant (WWTP) that is subject to permit requirements by the Illinois Environmental Protection Agency (IEPA), and

WHEREAS the Village of Bensenville has supported and participated in DRSCW as an Agency member since 2006; and

WHEREAS the DRSCW has developed a Special Condition that is acceptable to IEPA that will extend a new Phosphorus limit for eleven years in lieu of the five year permit cycle; and

WHEREAS the Special Condition includes engineering studies that require an additional level of funding by the Village; and

WHEREAS on November 4, 2015 the Village formally approved an agreement to participate in the Special Conditions and associated dues as part of Resolution R-86-2015

WHEREAS dues for 2016/2017 were identified as \$13,567.00.

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

THAT the Village Board authorizes the approval of a purchase order to the DuPage River / Salt Creek Workgroup (DRSCW) for the 2017/2018 annual dues for \$13,567.00.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, Illinois, _____, 2017.

APPROVED:

Frank DeSimone
Village President

ATTEST:

Nancy Quinn
Village Clerk

AYES: _____

NAYS: _____

ABSENT: _____

TYPE:

Resolution

SUBMITTED BY:

Joe Caracci

DEPARTMENT:

Public Works

DATE:

May 15, 2017

DESCRIPTION:

Consideration of a Resolution Authorizing the Execution of an Intergovernmental Agreement (IGA) between the Illinois State Toll Highway Authority and the Village of Bensenville for the Chloride Offset Program

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Financially Sound Village | <input checked="" type="checkbox"/> Enrich the lives of Residents |
| <input checked="" type="checkbox"/> Quality Customer Oriented Services | Major Business/Corporate Center |
| <input checked="" type="checkbox"/> Safe and Beautiful Village | Vibrant Major Corridors |

COMMITTEE ACTION:

I&E

DATE:

May 15, 2017

BACKGROUND:

The Illinois State Toll Highway Authority (ISTHA) has been undertaking two very large scale, high profile projects recently. Namely the Elgin O'Hare Western Access (EOWA) and Jane Addams Memorial Highway (I-90). Due to the expansion of I-90 and the creation of EOWA, additional lane miles of pavement have been introduced to the highway system. With additional lane miles comes additional salt operations.

The Illinois Environmental Protection Agency (IEPA) and the United States Army Corp of Engineers (USACE) are challenged with the enforcement of the Federal Clean Water Act (CWA). As such, and as part of the Tollway Permit, the Tollway is required to establish a "Chloride Offset Program" to mitigate the increased chloride loading in our watershed.

A Memorandum of Understanding (MOU) between the Tollway and the DuPage River Salt Creek Workgroup was executed on October 31, 2013 to outline the Program (attached). As part of the Program, the Village of Bensenville was identified as a potential participant in the Program. As part of the Program, the Village has indicated, that with an upgrade of equipment and material, we could potentially reduce our own chloride usage by 204 tons per year to help offset the additional quantities needed for the Tollway.

KEY ISSUES:

The proposed IGA sets the terms and commitments of both parties. Important terms and responsibilities of the agreement are as follows:

- The Village of Bensenville's rate reduction goal equates to 204 tons of salt per year (as outlined in I - C)
- The Village will report a summary of raw data to the Tollway annually (as outlined in IV - B)
- The Term of the Agreement shall extend through five consecutive winter seasons (as outlined in VII - C)
- The Village must operate in a manner demonstrating intent to achieve the goal reduction (as outlined in VII - D)
- The Tollway shall compensate the Village up to \$367,000 for the purchase of material and equipment to achieve this goal (as outlined in VI - E)

The Village has identified a the following pieces of equipment for the Program

- New Plow Truck - \$190,000
- Retrofit 3 Existing Trucks - \$60,000
- Anti-Ice Applicator - \$20,000
- Anti-Ice Applicator - \$25,000
- Anti-Ice Filling Station - \$19,000
- Brine Maker - \$36,000
- Plow for End Loader - \$17,000

These items were identified in our CY2017 budget as capital expenses with a Grant funding source. With the

execution of this IGA, we will be able to move forward with the procurement of this equipment with hopes of delivery prior to the 2017-2018 winter season.

Bond Dickson Conway reviewed the IGA for the City of Wood Dale and has shared their findings (free of charge) to the Village of Bensenville (attached).

ALTERNATIVES:

Discretion of the Committee.

RECOMMENDATION:

Staff recommends the approval of the IGA with Illinois State Toll Highway Authority.

BUDGET IMPACT:

These items were identified in our CY2017 budget as capital expenses with a Grant funding source. With the execution of this IGA, we will be able to move forward with the procurement of this equipment with hopes of delivery prior to the 2017-2018 winter season.

ACTION REQUIRED:

Approval of a Resolution Authorizing the Execution of an Intergovernmental Agreement (IGA) between the Illinois State Toll Highway Authority and the Village of Bensenville for the Chloride Offset Program.

ATTACHMENTS:

Description	Upload Date	Type
LETTER - Tollway Chloride Offset Program Participation Request	5/9/2017	Backup Material
LETTER - Tollway Chloride Offset Program Funding Request	5/9/2017	Backup Material
MEMO - Attorney Review	5/11/2017	Backup Material
MOI - Tollway Chloride Offset Program	5/9/2017	Backup Material
IGADRAFT - Tollway Chloride Reduction Program	5/9/2017	Backup Material
RES - Tollway Chloride Reduction Program	5/9/2017	Resolution Letter



12 S. Center St.
Bensenville, IL 60106

Office: 630.766.8200
Fax: 630.594-1105

www.bensenville.il.us

VILLAGE BOARD

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Village Clerk

Ilsa Rivera-Trujillo

Village Manager

Evan K. Summers

January 25, 2017

Mr. Greg Bedalov
Executive Director
Illinois State Toll Highway Authority
2700 Ogden Ave
Downers Grove, IL 60515

Dear Mr. Bedalov,

Under the Chloride Offset Program required by Condition 6 of the Section 401 Clean Water Act Permit (C-0396-12) issued by the Illinois Environmental Protection Agency to the Tollway and in partnership with the DuPage River Salt Creek Workgroup (DRSCW), the Village of Bensenville (Village) is requesting participation in the Program.

The Village has worked closely with the DRSCW in reviewing our winter operations, in effort to optimize our efforts while concurrently meeting chloride reduction goals established within the Program. Through those collective efforts, we have established a 17.5% cumulative chloride reduction goal for the Village that we request the Tollway's assistance in achieving.

Per our review efforts, operational improvements and upgrades at an approximate cost of \$575,000 (2016 prices) were identified, in which the Village hereby requests participation in the Program in the form of \$367,000 financial partnership, in effort to achieve a collective chloride reduction goal, per the Program. Please know that the Tollway contribution will be matched with \$208,000 of Village funds and that the Village's proposal has been provided to and coordinated with your environmental staff.

Thank you and please let me know if you have any questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads 'Joseph M. Caracci'.

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



12 S. Center St.
Bensenville, IL 60106

Office: 630.766.8200
Fax: 630.594-1105

www.bensenville.il.us

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Ilsa Rivera-Trujillo

Village Manager

Evan K. Summers

Tara Neff

Water Resource Assistant, DuPage River Salt Creek Workgroup

The Conservation Foundation's McDonald Farm

10S404 Knoch Knolls Rd.

Naperville, IL 60565

P: 630-428-4500, Ext. 123

F: 630-428-4599

Ms. Neff,

On behalf of the Public Works Department in Village of Bensenville, please find the attached worksheets detailing the Department's winter and snow operations. Per conversation with Mr. Harvey Williams, I have outlined the needs and wants for the Department in order to bring Bensenville up to the most current snow and ice control standards. However, the forms provided by the Workgroup do not have an identifier for an industrial roadway (area 1) which is a crucial part of the winter operations in Bensenville.

Equipment that the Village has in its fleet is sub-standard in today's world of snow and ice operations. Currently, we use four (4) single axel and one tandem axel dump trucks for the majority of the lane miles. Due to archaic technology, Department has no real way of measuring exact salt disbursement in winter storms. We rely solely on the honor system of our staff to provide accurate data to the management.

When the topic regarding fund availability for equipment upgrade started, in order to lessen the usage of chlorides, Bensenville Public Works Department started to work on a plan. One of the first initiatives was to send members of the Management staff to the annual APWA Snow and Ice Control conference. Last April, the Village's Fleet Supervisor and myself attended this conference and have gained valuable knowledge. I learned that funding the necessary improvements to the equipment in order to utilize the newest methods, was one of the most important aspects of winter operations. Public Works Management has established two important goals. First, to reduce overall salt usage and second, to enhance the performance of the equipment in order to provide safe and efficient way for snow and ice operations.

Our Village Board recently passed a resolution to purchase a new tandem axel dump truck with state of the art snow and ice equipment in the amount of \$200,000. The funds we are seeking are not necessarily geared to the procurement of new trucks, instead, several vehicles in our fleet meet the criteria to retrofit - making the fleet standardized without spending additional dollars on brand new equipment. In seeking these available funds to empower our Public Works fleet, the result would be tremendous cost saving for the public, accurate data management and safe and efficient way for the staff to operate the equipment.

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Ilsa Rivera-Trujillo

Village Manager

Evan K. Summers

Below is a list of the current snow and ice control fleet, rated highest to lowest priority and the costs associated with each.

Equipment	Route Designation	Cost/Need	Rating
2009 International	Area 2	Retrofit = \$20,000	1
2009 International	Area 3	Retrofit = \$20,000	1
2003 International	Area 5	Retrofit = \$20,000	1
Anti-Ice Applicator	All	New Tank = \$20,000	2
Brine Maker	All	New = \$36,000	2
Anti-Ice Filling Station	All	New = \$18,000	3
Plow for Loader	Cul de sacs	New = \$17,000	4
Anti-Ice Applicator	Parking Lots/Police/VH	New = 25,000	5
1996 Louisville Dump	Area 4	\$190,000 New Truck	6

Rating #1 - Maximizing our current fleet with retrofitted equipment would be the most cost efficient way to standardize the equipment. For approximately \$60,000, three vehicles could be converted with new hydraulics and controllers that would make these vehicles comparable with a purchase of a brand new dump truck.

Rating #2 –Salt brine machine would provide the brine for Anti-Icing or pre-wetting capabilities, proven to reduce granular material and lessen the excess chlorides for a fraction of the cost. Also, with a recent purchase of the new dump truck, we would also add anti-ice applicator for the new truck. Having the brine machine and an anti-ice applicator for anti-icing and pre-wetting capabilities would make our snow removal process much more efficient and effective.

Rating #3 – Anti-Ice Filling Station would allow the staff to blend different materials such as brine, beet juice and calcium chloride to make a “super blend”. This “super blend” is validated by enough quantifiable data proving its effectiveness and was highly recommended by the speakers at the Snow & Ice Conference.

Rating #4 –Front End loader is used for clearing cul-de-sac’s in Bensenville. Experimenting with different vehicles, such as pickup trucks for these types of roadways has proven inefficient and unsafe. The plow for the loader is in dire need of replacement, but the budget constraints currently do not allow for it.

Rating #5 – Anti Ice applicator and new hydraulic controls for a 1 ton vehicle for smaller areas such parking lots for the Village Hall, Metra, Police Department, Public Works and Recreation centers as well as dead end roadways.



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Rating #6 – A new dump truck. We are hoping to replace this truck in next year's budget. As stated earlier, one of the front end loaders was cut from the budget and a new dump truck next year is not looking promising either. With that said, I am putting it on a top priority list if funds become available.

Public Works Department is determined to improve the winter operations in terms of reducing chloride and salt usage. However, the equipment in our fleet division is not up to par. Between ratings 1, 2 and 3, \$133,000 would get three dump trucks retrofitted with new hydraulics and controllers, anti-ice skid applicator, new salt brine maker and filling station. It is less than a purchase of a whole new truck. For a total of \$365,000, Bensenville Public Works Department would see a complete transformation in terms of equipment and vehicles, which would then result in more efficient, safe and cost effective snow removal and ice control methods.

If you have any questions, concerns, feedback, or would like to schedule a tour of our fleet facility, please do not hesitate to contact me.

Sincerely,

Richard N. Radde
Assistant Director of Public Works – O&M
Village of Bensenville
717 E. Jefferson St
Bensenville, IL 60106
(O) 630-350-3417
(C) 630-670-1751

Joseph Caracci

From: Patrick Bond <patrickbond@bond-dickson.com>
Sent: Tuesday, May 09, 2017 11:26 AM
To: Joseph Caracci
Subject: Tollway Chloride Offset Program

Joe:

As you are aware, Our Office was reviewing the Intergovernmental Agreement Between the Illinois State Toll Highway Authority and the City of Wood Dale For the Chloride Offset Program. You requested our input on that Agreement as the Village is entering into a similar Agreement with the Toll Highway Authority. Kindly consider this correspondence a response for your file to that Agreement. Please note that I have not billed the Village for my review of the Agreement.

I find the proposed 5 year Agreement to be acceptable. As you know, the goal, as delineated in the Agreement, is to reduce the salt usage on roadway applications and, thereby, a reduction in the watersheds. The Agreement simply provides a baseline salt application rate, with an established rate reduction goal. Further, the Agreement identifies certain structural and non-structural best management practices. The Village is not responsible for monitoring and reporting the Chloride offsets. The Village is required to provide data to the Tollway relative to the total lane miles maintained, road salt usage, winter precipitation, etc. Further, the Agreement contemplates the Village will work in conjunction with the Toll Highway Authority for documenting and monitoring the program. The Agreement, however, does not provide any of the specifics.

The Toll Highway Authority will compensate the Village for requested equipment and training. Thereafter, the equipment becomes property and responsibility of the Village for which the Village will indemnify and hold harmless the Toll Highway Authority.

The only financial exposure of the Village under the Agreement is that if the Village does "not operate in a manner in which to achieve the goal reduction" in the first year, the Toll Highway Authority will provide written notice to the Village identifying the delinquencies and practices that the Village purportedly failed to adhere to . The financial implications are triggered if the goal reduction is not achieved, as result of the Village's failure, in the second year. If these two events occur, the Village is required to reimburse the Toll Highway Authority for payments made to the Village.

The balance of the Agreement is acceptable and the interests of the Village are protected, without providing any further liability or obligation upon the Village.

Should you have any questions, please feel free to contact me.

Regards,

Pat Bond

Patrick K. Bond
Bond, Dickson & Conway
400 S. Knoll Street, Unit C
Wheaton, IL 60187

Ph: (630) 681-1000
Fax: (630) 681-1020

**MEMORANDUM OF UNDERSTANDING
BETWEEN
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
AND
THE DUPAGE RIVER SALT CREEK WORKGROUP
FOR
CHLORIDE OFFSET PROGRAM**

This MEMORANDUM OF UNDERSTANDING (hereinafter referred to as the "MOU") is entered into this 31st day of October AD, 2013, by and between THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY, an instrumentality and administrative agency of the State of Illinois, hereinafter called the "TOLLWAY", and THE DUPAGE RIVER SALT CREEK WORKGROUP, a group of local watershed stakeholders which include sanitary districts, municipalities, counties, forest preserve districts, state and federal agencies, and private environmental organizations of the State of Illinois, hereinafter called the "DRSCW", individually referred to as "PARTY", and collectively referred to as "PARTIES".

WITNESSETH:

WHEREAS, the TOLLWAY recently approved a 15 year Capitol Program, "Move Illinois; *The Illinois Tollway Driving the Future*," which includes improving the Jane Addams Memorial Tollway (I-90) (hereinafter sometimes referred to as the "Toll Highway"), by reconstructing and widening from the John F. Kennedy Expressway to Interstate Route 39. The contemplated improvements are substantially included in multiple TOLLWAY construction contracts; and

WHEREAS, the TOLLWAY intends to improve the Elgin O'Hare Expressway, extending the expressway from its eastern terminus at Rohlwing Road (Illinois Route 53) to O'Hare International Airport (ORD) and constructing the Western Access connecting the Jane Addams Memorial Tollway (I-90) with the Tri-State Tollway (I-294) (hereinafter sometimes referred to as the Elgin O'Hare Western Access "EOWA"), and included in multiple TOLLWAY construction contract(s). The TOLLWAY will implement, operate and maintain the mainline improvements as tolled facilities (hereinafter sometimes referred to as the "Toll Highway"); and

WHEREAS, because the projects are in such close proximity, strategies for some aspects of environmental mitigation (i.e., water quality enhancements) are being considered collectively by the PARTIES, where feasible and practicable; and

WHEREAS, highway de-icing practices during winter months commonly use de-icing salts to provide for safe vehicular travel and winter maintenance for I-90 and the EOWA will require the use of salts; and

WHEREAS, studies acknowledged the potential for the addition of chloride concentrations in area streams and as the I-90 and EOWA projects are advancing to implementation, applications for Section 404 and Section 401 permits have been submitted to the United States Army Corp of Engineers (USACE) and the Illinois Environmental Protection Agency (IEPA); and

WHEREAS, the enhancement of water quality has been the focus of the DRSCW for many years, and the TOLLWAY in an effort to have the "Cleanest and Greenest" program possible is requesting that a partnership be developed between the PARTIES hereto, and a collaboration with permitting agencies, to achieve chloride offsets and reductions to enhance the water quality throughout the DRSCW's water-sheds affected by I-90 and the EOWA; and

WHEREAS, the waterways receiving storm water and snowmelt runoff from the I-90 and EOWA are on the IEPA's Section 303D List of impaired waters and thus require at a minimum no net increase in chlorides as defined in the "Clean Water Act"; and

WHEREAS, this MOU, for recording purposes shall be known as 002013-22, executed in duplicate, and has been prepared to outline the general understanding between the DRSCW and the TOLLWAY with regard to determine and establish their respective responsibilities toward a proposed "Chloride Offset Program" (hereinafter referred to as the "PROGRAM") and also serve as a basis for developing Intergovernmental Agreements with local watershed communities and agencies in the impacted area; and

WHEREAS the PARTIES agree that the entirety of the offset will occur with the impacted areas and be tailored to individual receiving stream segments to the maximum extent possible. As such local watershed communities and agencies participating in the PROGRAM will be responsible for winter operations on the land surfaces that drain to those segments and are herein referred to as "Tier 1 Communities";

NOW, THEREFORE, in consideration of the aforementioned recitals and the mutual covenants contained herein, the PARTIES hereto agree to the following summary of the responsibilities and participation of each PARTY in the implementation of the PROGRAM.

I. GOAL

- A. The goal of the PROGRAM is to offset the increased chloride loadings from I-90 and the EOWA by affecting reductions in the use of winter de-icing salts from existing conditions. The TOLLWAY will reduce chloride applications in a quantifiable manner in support of the 401 Water Quality Certification process for I-90 and the EOWA projects and of local municipalities National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System ("NPDES MS4") permit requirements.

- B. The intent is to establish a partnership between the TOLLWAY and governmental bodies to achieve the chloride loading offset.
- C. The partners will endeavor to achieve the offsets in communities straddling and or upstream of the I-90 and EOWA, but the TOLLWAY will expand beyond that area if needed to achieve the offset amounts.
- D. Both structural and non-structural practices will comprise the PROGRAM to provide the needed improvements in water quality.

II. STRUCTURAL BEST MANAGEMENT PRACTICES

- A. Grass swales, bio-swales, infiltration basins, etc. will be incorporated by TOLLWAY into the I-90 and EOWA projects in order to minimize the effects of roadway runoff and improve the quality of roadway runoff discharged to receiving waters and/or nearby wetlands.

III. NON-STRUCTURAL BEST MANAGEMENT PRACTICES

- A. A salt reduction goal will be established by the TOLLWAY and DRSCW for the PROGRAM through further analysis of existing conditions, existing practices in the affected watersheds, and planned highway improvements. Offsets will include the adoption of salt reduction strategies (enhanced training, improved materials use, equipment upgrades), implemented by both the TOLLWAY and the Tier 1 communities. All participants will provide documentation on their salt application rates per lane mile, application totals, calibration logs and details on financial and other support to other mutually agreed upon partners.
- B. The TOLLWAY recognizes that meeting the objectives of the Total Maximum Daily Loads ("TMDL's") will require reductions in area chloride loading above those set out in the PROGRAM and agrees to review its practices at an agency wide scale and to actively partner with the DRSCW, its members or successors, in working for PROGRAM area chloride reductions beyond the life of the PROGRAM with the goal of meeting the applicable water quality standard.

IV. TOLLWAY AND DRSCW RESPONSIBILITIES

- A. Both PARTIES agree that the requirements embodied in Clean Water Act Section 401 certification(s) or Section 404 or NPDES permit(s), are the sole responsibility of the TOLLWAY, and that the DRSCW or participating agencies cannot be held liable in any way for failure to comply with such requirements.
- B. The DRSCW will endeavor to unify stakeholders in the project areas with the common goal of improving chloride water quality. It is recognized that participating communities are voluntary agents and neither they nor the DRSCW can be held liable in any way for failure to collaborate in the plan.

- C. The DRSCW will determine the baseline conditions through appropriate studies with stakeholders and other environmental evaluation which shall include sampling and analyses, as well as flow evaluation.
- D. The DRSCW will determine the opportunities for improving de-icing practices through surveys and interviews with stakeholders.
- E. The DRSCW and the TOLLWAY will set priorities, tracking offset progress, and the timeframe for achievement with concurrence from the IEPA.
- F. The TOLLWAY will provide ongoing financial assistance supporting capital investments of alternative de-icing methods potentially for municipalities and agencies that are participating in the PROGRAM until such time as the PROGRAM objectives are met.
- G. The TOLLWAY with the DRSCW's technical assistance will establish training and certifications for operators that would enhance awareness of best practices for snow and ice management operations.
- H. The TOLLWAY with the DRSCW will establish data sites/sources for weather data and other information helpful in managing roadway de-icing.
- I. The DRSCW with the support of the TOLLWAY will conduct long term monitoring that records salt usage and stream conditions. Evaluation of future operating conditions will be compared to baseline conditions.
- J. The TOLLWAY and the DRSCW will report annually by July 1st to the IEPA the resulting efforts and success of the PROGRAM on an annual basis beginning in July of 2014. Success will be measured primarily by the application rate and totals reported with consideration given to the ambient monitoring system.
- K. The TOLLWAY and the DRSCW will collaborate to put in place an ambient monitoring system that will be part of the PROGRAM monitoring and evaluation, and will document pre and post PROGRAM chloride conditions in the receiving streams. A monitoring plan will be developed through input from both PARTIES with the intent of conducting stream monitoring on Addison Creek, Salt Creek mainstem, Spring Brook, Meacham Creek and West Branch mainstem. The pre and post conditions will be synthesized in a report and submitted to IEPA on an annual basis along with other reporting data. The system would assist in evaluating the success of the PROGRAM in meeting the TMLD's goals and will be funded wholly by the TOLLWAY.
- L. The PARTIES agree that the PROGRAM may require several years of monitoring and reporting from PROGRAM partners.

- M. The PARTIES will develop and maintain a guidance document for the PROGRAM which will at minimum detail the methods for calculating the build scenario non-PROGRAM increase, the needed offset, BMP's the monitoring PROGRAM and reporting baseline requirements. The document will be updated by agreement between the PARTIES as the PROGRAM advances.

V. INTERGOVERNMENTAL AGREEMENTS

- A. The TOLLWAY shall use its best efforts to enter into Intergovernmental Agreements prepared by the TOLLWAY and Tier 1 communities based upon this MOU to further determine and establish respective responsibilities toward financial partnerships, information sharing, and training.
- B. These Intergovernmental Agreements shall not relieve the TOLLWAY of their responsibility to comply with the "Clean Water Act" as determined and enforced by the IEPA.

VI. FINANCIAL

- A. The TOLLWAY will support financial partnerships through an Intergovernmental Agreement requiring cost sharing with a local partner as defined by the PROGRAM.
- B. Project requests to the TOLLWAY will be subject to DRSCW and TOLLWAY approvals, to cost effectively promote salt usage reduction.

VII. TERMS OF THE MOU

- A. The term of this MOU shall extend until such time that the PROGRAM offset has been achieved reductions have been demonstrated for a minimum of three (3) years. Either PARTY shall have the right to terminate this MOU at any time by providing at least ninety (90) days written notice to the other party in the event either PARTY breaches the terms and conditions of this MOU. At the end of the agreement period this document may be renewed by the mutual consent of the PARTIES.

(This space intentionally left blank)

IN WITNESS THEREOF, the PARTIES have entered into this MOU as of the date written below.

THE DUPAGE RIVER SALT CREEK WORKGROUP

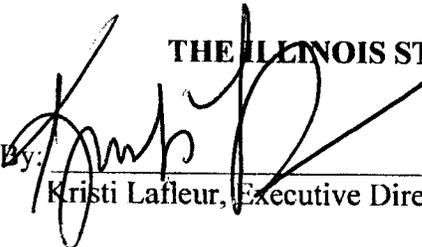
By: 
David Gorman, President

Attest: 

Date: 10-30-13

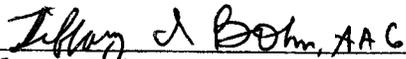
10-30-13.
(Please Print Name)

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY

By: 
Kristi Lafleur, Executive Director

Date: 10/31/13

Approved as to Form and Constitutionality

 A.A.G. 10/31/13
Tiffany I. Bohn, Assistant Attorney General, State of Illinois



*The Illinois Tollway
2700 Ogden Avenue
Downers Grove, Illinois 60515-1703
Phone: 630/241-6800
Fax: 630/241-6100
TTY: 630/241-6898*

November 4, 2013

Mr. Stephen McCracken
DuPage River Salt Creek Workgroup
The Conservation Foundation
10 S. 404 Knoch Knolls
Naperville, IL 60565

***Re: Memorandum of Understanding between the The Illinois State Toll Highway Authority
and the DuPage River Salt Creek Workgroup for Chloride Offset Program.***

Dear Mr. McCracken:

Enclosed please find one (1) fully executed Memorandum of Understanding between the Illinois State Toll Highway Authority and The DuPage River Salt Creek Workgroup for Chloride Offset Program on I-90 and the Elgin O'Hare Western Access.

Very truly yours,

Tiffany I. Bohn
Assistant Attorney General

TIB:mw
Enclosure



THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY

TO: Eileen Cosgriff, CIS

FROM: Tiffany I. Bohn, Assistant Attorney General *TIB*

DATE: November 4, 2013

SUBJECT: *Memorandum of Understanding between The DuPage River Salt Creek Workgroup and The Illinois State Toll Highway Authority for Chloride Offset Program.*

Attached please find one (1) fully executed original Memorandum of Understanding between the DuPage River Salt Creek Workgroup and the Illinois State Toll Highway Authority Chloride Offset Program.

This document is transmitted to your attention for the Department's records.

This Memorandum of Understanding does not require a Board Resolution.

TIB:mw
Attachment

cc: V. Avila J. Romano
T. Bohn S. Talaber
K. Kell B. Wagner
P. Kovacs V. Yee
D. Manetti G. Zimmer
M. Molliconi R. Zuccherro
P. Pearn

**INTERGOVERNMENTAL AGREEMENT BETWEEN
THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
AND
THE VILLAGE OF BENSENVILLE
FOR
CHLORIDE OFFSET PROGRAM**

This INTERGOVERNMENTAL AGREEMENT (“AGREEMENT”) is entered into this _____ day of _____, 2017, by and between The Illinois State Toll Highway Authority, an instrumentality and administrative agency of the State of Illinois, hereinafter called the “ILLINOIS TOLLWAY”, and The Village of Bensenville, a municipal corporation of the State of Illinois, hereinafter called the “VILLAGE”, individually referred to as “PARTY”, and collectively referred to as “PARTIES”.

WITNESSETH:

WHEREAS, the ILLINOIS TOLLWAY in order to facilitate the free flow of traffic and ensure safety to the motoring public, intends to improve the existing Elgin O’Hare Expressway, extend the expressway from its eastern terminus at Rohlwing Road (Illinois Route 53) to O’Hare International Airport (ORD) to be known entirely as Illinois Route 390, and construct the Western Access connecting the Jane Addams Memorial Tollway (I-90) with the Tri-State Tollway (I-294) (hereinafter sometimes referred to as the Elgin O’Hare Western Access “EOWA”), and included in multiple ILLINOIS TOLLWAY construction contracts. The ILLINOIS TOLLWAY will implement, operate and maintain the mainline improvements as tolled facilities (hereinafter sometimes referred to as "Toll Highway"); and

WHEREAS, highway de-icing practices during winter months commonly use de-icing salts to provide for safe vehicular travel and winter maintenance for the EOWA will require the use of chlorides; and

WHEREAS, studies acknowledged the potential for the addition of chloride concentrations in area streams and as the EOWA project is advancing in implementation, permits for Section 404 and Section 401 of the Clean Water Act (CWA) have been secured from the United States Army Corp of Engineers (USACE) and the Illinois Environmental Protection Agency (IEPA); and

WHEREAS, conditions established within the ILLINOIS TOLLWAY’s CWA Section 401 permit require the implementation of a “Chloride Offset Program” (hereinafter called the “PROGRAM”) to mitigate for increased chloride loading in the Total Maximum Daily Loading (TMDL) watersheds throughout the EOWA project area; and

WHEREAS, a Memorandum of Understanding (MOU) between the ILLINOIS TOLLWAY and DuPage River Salt Creek Workgroup (DRSCW) was executed October

31, 2013 to outline the PROGRAM, which is attached hereto as “Exhibit A” and incorporated by reference; and

WHEREAS, per the MOU, it was agreed that the entirety of the offset will occur within the impacted areas and be tailored to individual receiving stream segments to the maximum extent possible. As such, local watershed communities and agencies participating in the PROGRAM will be responsible for winter operations on the land surfaces that drain to those segments and are herein referred to as “TIER 1 COMMUNITY” or “TIER 1 COMMUNITIES”; and

WHEREAS, the VILLAGE has been identified as a TIER 1 COMMUNITY and has, in coordination with the DRSCW, conducted a review of their snow and ice operations in an effort to identify areas of operational improvements relating to efficiency gains in winter chloride usage, and per the VILLAGE’S review, it is believed that an effective reduction in chloride usage can be attained, as part of the PROGRAM through the upgrading of equipment utilized for winter operations by the VILLAGE; and

WHEREAS, the PARTIES mutually agree to review winter operation policies and procedures and work in coordination with the DRSCW to monitor the administration and progress of the PROGRAM; and

WHEREAS, the ILLINOIS TOLLWAY by virtue of its powers as set forth in the "Toll Highway Act," 605 ILCS 10/1 *et seq.* is authorized to enter into this AGREEMENT; and

WHEREAS, the VILLAGE by virtue of its powers as set forth in the “Illinois Municipal Code,” 65 ILCS 5/1-1-1 *et seq.* is authorized to enter into this AGREEMENT; and

WHEREAS, a cooperative Intergovernmental Agreement is appropriate and such an Agreement is authorized by Article VII, Section 10 of the Illinois Constitution and the “Intergovernmental Cooperation Act”, 5 ILCS 220/1 *et seq.*

WHEREAS for recording purposes this AGREEMENT shall be known as #2017-11.

NOW, THEREFORE, in consideration of the aforementioned recitals and the mutual covenants contained herein, the PARTIES hereto agree to the following summary of the responsibilities and participation of each PARTY in the implementation of the PROGRAM.

I. PURPOSE and SCOPE

- A. The PROGRAM established a projected increase over existing conditions or baseline for the EOWA of 3,888 tons of salt per year, per a baseline 39.7 tons/lane mile/year application rate. The goal of the offset program will be to reduce salt usage in roadway applications in the project related watersheds by the amount of the increase (3,888 tons per year) plus a margin of safety of 25 percent or a total reduction of 4,860 tons per year.
- B. The ILLINOIS TOLLWAY, as part of the PROGRAM, has established a rate reduction goal of 20% from the EOWA's established baseline salt application rate of 39.7 tons/lane mile/year, thereby accounting for 972 tons per year of the 4,860 tons per year of salt required to be reduced, as part of the PROGRAM.
- C. The VILLAGE, as part of the PROGRAM and per this AGREEMENT, has established a rate reduction goal of 17.5% from its established baseline application salt application rate of 12.3 tons/lane mile/year, thereby accounting for 204 tons per year of the 4,860 tons per year of salt required to be reduced, as part of the PROGRAM.
- D. Both structural and non-structural practices will comprise the PROGRAM to provide the needed improvements in water quality but it is understood that offset reductions can only be accounted for through non-structural practices.

II. STRUCTURAL BEST MANAGEMENT PRACTICES

- A. Grass swales, bio-swales, infiltration basins, and other designs will be incorporated by the ILLINOIS TOLLWAY into the EOWA projects in order to minimize the effects of roadway runoff and improve the quality of roadway runoff discharged to receiving waters and/or nearby wetlands.

III. NON-STRUCTURAL BEST MANAGEMENT PRACTICES

- A. A salt reduction goal has been established by the ILLINOIS TOLLWAY and DRSCW for the PROGRAM through the analysis of existing conditions, existing practices in the affected watersheds, and planned highway improvements. Offsets will include both the adoption of salt reduction strategies implemented by the ILLINOIS TOLLWAY and providing salt application data to DRSCW, including but not limited to their application rates for each lane mile, as well as financial and other support to other mutually agreed upon partners.
- B. The ILLINOIS TOLLWAY recognizes that meeting the objectives of the Total Maximum Daily Loads ("TMDL's") will require reductions in area chloride loading above those set out in the PROGRAM and agrees to review its practices at

an agency wide scale and to actively partner with the DRSCW, its members or successors, in working for PROGRAM area chloride reductions beyond the life of the PROGRAM with the goal of meeting the applicable water quality standard.

IV. RESPONSIBILITIES

- A. Pursuant to Exhibit A, a guideline for monitoring and reporting chloride offsets has been established. Both PARTIES agree that the requirements embodied in Clean Water Act Section 401 certification(s) or Section 404 or NPDES permit(s), are the sole responsibility of the ILLINOIS TOLLWAY, and that the VILLAGE is not responsible in any way for the ILLINOIS TOLLWAY's failure to comply with such requirements.
- B. The VILLAGE shall provide the ILLINOIS TOLLWAY a summary raw data report that includes the following data for the most recent winter season for a minimum of five consecutive winter seasons, post equipment purchase and installation; 1) total lane miles maintained, 2) actual road salt usage in tons per lane mile, 3) baseline road salt usage in tons per lane mile, 4) target road salt usage in tons per lane mile, 5) total winter season precipitation events requiring deicing efforts, 6) average precipitation in inches of snow, ice and liquid form of winter season precipitation per precipitation event, 7) duration of each operator deicing efficiency training session and number of operators attending, 8) new equipment installation and new practices implemented and identification and practices planned and 9) the completed DRSCW's Winter Public Agency Deicing Questionnaire.
- C. The PARTIES agree that the PROGRAM may require several years of monitoring and reporting from PROGRAM partners.
- D. The PARTIES will develop and maintain a guidance document for the PROGRAM which will at minimum detail the methods for calculating the build scenario non-PROGRAM increase, the needed offset, BMP's the monitoring PROGRAM and reporting baseline requirements. The document will be updated by agreement between the PARTIES as the PROGRAM advances.

V. DELIVERABLES

- A. The deliverables will be transmitted to the ILLINOIS TOLLWAY, by the VILLAGE and include written reports documenting, as defined in Article IV, Paragraph B. of this AGREEMENT by June 1st pertaining to the preceding winter season.
- B. The ILLINOIS TOLLWAY maintains its responsibility to remain compliant with the "Clean Water Act" as determined and administered by the IEPA.

VI. FINANCIAL

- A. The ILLINOIS TOLLWAY as sponsor of the PROGRAM will compensate the VILLAGE as outlined in this AGREEMENT and included in the VILLAGE's Request for Equipment and Training "PROPOSAL".
- B. The purchase of equipment identified within the VILLAGE's PROPOSAL, as part of the PROGRAM shall be reimbursed by the ILLINOIS TOLLWAY to the VILLAGE.
- C. The VILLAGE will be paid based upon its invoice(s) which shall include detailed receipts of purchased items in substantial conformance with the Budget included in the VILLAGE's PROPOSAL.
- D. The VILLAGE shall certify in writing, upon presentation of each invoice hereunder, that items as invoiced have been actually purchased and installed and that the VILLAGE is in fact complying with all other provisions of this AGREEMENT. Invoicing shall be sufficiently itemized to permit the ILLINOIS TOLLWAY or its consultant(s) or cooperating governmental unit(s) to verify performance of the work so invoiced.
- E. It is mutually agreed that the estimated cost to the ILLINOIS TOLLWAY shall not exceed \$367,000 for the term of this AGREEMENT through five consecutive winter seasons, beginning with the first winter season in which purchased equipment has been utilized and use data has been provided to the ILLINOIS TOLLWAY.

VII. GENERAL PROVISIONS

- A. It is understood and agreed that this is an AGREEMENT between the VILLAGE of Bensenville and the Illinois State Toll Highway Authority.
- B. All equipment proposed for purchase and installation, shall be done so prior to the 2018/2019 winter season but efforts will be made for purchases and installations to occur prior to the 2017/2018 winter season.
- C. The term of this AGREEMENT shall extend through five consecutive winter seasons in which purchased equipment has been utilized and use data has been provided to the ILLINOIS TOLLWAY.
- D. PARTIES agree to collaborate in effort to fulfill applicable goals of the PROGRAM as established in Section IV. of EXHIBIT A. Should the PARTIES mutually agree

that the VILLAGE did not operate in a manner demonstrating intent achieve the goal reduction of 17.5% in a PROGRAM year, the ILLINOIS TOLLWAY shall provide written notice to the VILLAGE identifying delinquencies of agreed upon practices. Should the PARTIES mutually agree that the VILLAGE did not operate in a manner in which to achieve the goal reduction of 17.5% for a second year during the term of this AGREEMENT, the ILLINOIS TOLLWAY and shall provide written notice to the VILLAGE identifying delinquencies of agreed upon practices and the VILLAGE shall provide reimbursement to the ILLINOIS TOLLWAY for all payments made by the ILLINOIS TOLLWAY associated with this agreement within 90 days of VILLAGE's receipt of the notice.

- E. Equipment purchased under this AGREEMENT by the ILLINOIS TOLLWAY on behalf of the VILLAGE becomes the property and responsibility of the VILLAGE and the VILLAGE shall indemnify, hold harmless and defend the ILLINOIS TOLLWAY, its officials, directors, officers, employees, and agents from and against all liability, claims, suits, demands, proceedings and action, including costs, fees and expense of defense, arising from, growing out of, or related to, any loss, damage, injury, death, or loss or damage to property resulting from, or connected with, the VILLAGE's negligent or willful acts, errors or omissions in its performance under this AGREEMENT, including, but not limited to, use of the equipment described herein. The VILLAGE expressly acknowledges that the ILLINOIS TOLLWAY, through provision of funding, training, and certification under this AGREEMENT, is not intended to be a joint employer of the VILLAGE's employees and agents and does not excerpt control over such persons in their use of the equipment that is the subject of this AGREEMENT.
- F. It is understood and agreed that this AGREEMENT constitutes the complete and exclusive statement of the agreement of the PARTIES relative to the subject matter hereof and supersedes all previous oral and written proposals, negotiations, representations or understandings concerning such subject matter.
- G. This AGREEMENT may be executed in two (2) or more counterparts, each of which shall be deemed an original and all of which shall be deemed one and the same instrument.
- H. Under penalties of perjury, the VILLAGE certifies that its correct Federal Tax Identification number is 36-6005794 and it is doing business as a governmental entity, whose mailing address is The Village of Bensenville, 12 S. Center Street, Bensenville, Illinois 60106.
- I. The PARTIES agree to maintain books and records related to the performance of this AGREEMENT and necessary to support amounts charged to the ILLINOIS TOLLWAY and/or any of the PARTIES under the AGREEMENT for a minimum of five (5) years from the last action on the AGREEMENT. The PARTIES further agree to cooperate fully with any audit and to make its books and records, and books and records within its custody or control available to the Illinois Attorney General,

the Illinois Auditor General, the ILLINOIS TOLLWAY Inspector General, the ILLINOIS TOLLWAY Department of Internal Audit, the ILLINOIS TOLLWAY or any other governmental agency or agent thereof that is authorized to audit or inspect such books and records.

- J. The introductory recitals included at the beginning of this AGREEMENT are agreed to and incorporated into this AGREEMENT.

(This section intentionally left blank)

IN WITNESS THEREOF, the PARTIES have executed this AGREEMENT on the dates indicated.

THE VILLAGE OF BENSENVILLE

By: _____
Frank DeSimone
President

Attest: _____
Nancy Quinn
Village Clerk

Date: _____

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY

By: _____
Greg M. Bedalov
Executive Director

Date: _____

By: _____
Michael Colsch
Chief Financial Officer

Date: _____

By: _____
Elizabeth M.S. Oplawski
Acting General Counsel

Date: _____

Approved as to Form and Constitutionality

Tiffany B. Schafer
Senior Assistant Attorney General, State of Illinois

RESOLUTION NO. _____

**RESOLUTION AUTHORIZING THE EXECUTION OF AN
INTERGOVERNMENTAL AGREEMENT BETWEEN THE VILLAGE OF
BENSENVILLE AND THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
(ISTHA) FOR THE CHLORIDE OFFSET PROGRAM**

WHEREAS, the Village of Bensenville (“VILLAGE”) is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*; and

WHEREAS, the ILLINOIS TOLLWAY in order to facilitate the free flow of traffic and ensure safety to the motoring public, intends to improve the existing Elgin O’Hare Expressway, extend the expressway from its eastern terminus at Rohlwing Road (Illinois Route 53) to O’Hare International Airport (ORD) to be known entirely as Illinois Route 390, and construct the Western Access connecting the Jane Addams Memorial Tollway (I-90) with the Tri-State Tollway (I-294) (hereinafter sometimes referred to as the Elgin O’Hare Western Access “EOWA”), and included in multiple ILLINOIS TOLLWAY construction contracts. The ILLINOIS TOLLWAY will implement, operate and maintain the mainline improvements as tolled facilities (hereinafter sometimes referred to as "Toll Highway"); and

WHEREAS, highway de-icing practices during winter months commonly use de-icing salts to provide for safe vehicular travel and winter maintenance for the EOWA will require the use of chlorides; and

WHEREAS, studies acknowledged the potential for the addition of chloride concentrations in area streams and as the EOWA project is advancing in implementation, permits for Section 404 and Section 401 of the Clean Water Act (CWA) have been secured from the United States Army Corp of Engineers (USACE) and the Illinois Environmental Protection Agency (IEPA); and

WHEREAS, conditions established within the ILLINOIS TOLLWAY’s CWA Section 401 permit require the implementation of a “Chloride Offset Program” (hereinafter called the “PROGRAM”) to mitigate for increased chloride loading in the Total Maximum Daily Loading (TMDL) watersheds throughout the EOWA project area; and

WHEREAS, a Memorandum of Understanding (MOU) between the ILLINOIS TOLLWAY and DuPage River Salt Creek Workgroup (DRSCW) was executed October 31, 2013 to outline the PROGRAM; and

WHEREAS, per the MOU, it was agreed that the entirety of the offset will occur within the impacted areas and be tailored to individual receiving stream segments to the maximum extent possible. As such, local watershed communities and agencies participating in the PROGRAM will be responsible for winter operations on the land

surfaces that drain to those segments and are herein referred to as "TIER 1 COMMUNITY" or "TIER 1 COMMUNITIES"; and

WHEREAS, the VILLAGE has been identified as a TIER 1 COMMUNITY and has, in coordination with the DRSCW, conducted a review of their snow and ice operations in an effort to identify areas of operational improvements relating to efficiency gains in winter chloride usage, and per the VILLAGE'S review, it is believed that an effective reduction in chloride usage can be attained, as part of the PROGRAM through the upgrading of equipment utilized for winter operations by the VILLAGE; and

WHEREAS, the PARTIES mutually agree to review winter operation policies and procedures and work in coordination with the DRSCW to monitor the administration and progress of the PROGRAM; and

WHEREAS, the ILLINOIS TOLLWAY by virtue of its powers as set forth in the "Toll Highway Act," 605 ILCS 10/1 *et seq.* is authorized to enter into this AGREEMENT; and

WHEREAS, the VILLAGE by virtue of its powers as set forth in the "Illinois Municipal Code," 65 ILCS 5/1-1-1 *et seq.* is authorized to enter into this AGREEMENT; and

WHEREAS, a cooperative Intergovernmental Agreement is appropriate and such an Agreement is authorized by Article VII, Section 10 of the Illinois Constitution and the "Intergovernmental Cooperation Act", 5 ILCS 220/1 *et seq.*

WHEREAS for recording purposes this AGREEMENT shall be known as #2017-11.

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

SECTION ONE: The foregoing recitals are hereby incorporated by reference in this Section One as if fully set forth.

SECTION TWO: The Intergovernmental Agreement attached hereto as Exhibit 1 shall be and is hereby approved, and the President and Village Clerk shall be and are hereby authorized and directed, respectively, to execute and to attest to said Agreement in substantially the form attached hereto.

SECTION THREE: This Resolution shall be in full force and effect from and after its passage and approval in the manner provided by law.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, this _____ day of May, 2017.

Frank DeSimone
Village President

ATTEST:

Nancy Quinn, Village Clerk

AYES: _____

NAYS: _____

ABSENT: _____

TYPE:

Resolution

SUBMITTED BY:

Joe Caracci

DEPARTMENT:

Public Works

DATE:

May 15, 2017

DESCRIPTION:

Consideration of a Resolution Approving an Intergovernmental Agreement (IGA) between Village of Bensenville and DuPage County Regarding the Redmond Reservoir Expansion Project.

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Financially Sound Village | <input checked="" type="checkbox"/> Enrich the lives of Residents |
| <input checked="" type="checkbox"/> Quality Customer Oriented Services | Major Business/Corporate Center |
| <input checked="" type="checkbox"/> Safe and Beautiful Village | Vibrant Major Corridors |

COMMITTEE ACTION:

I&E

DATE:

May 15, 2017

BACKGROUND:

The Village of Bensenville has experienced frequent and severe flooding upstream and downstream of Redmond Reservoir. In 2015, the Village completed the Redmond Reservoir H&H study that identifies several improvements that will help alleviate some of the flooding concerns. Included in these recommendations is an expansion of the Redmond Reservoir to provide additional capacity.

KEY ISSUES:

Over the past year, Village staff has been working diligently with DuPage County to secure CDBG-DR funds for this regional project. DuPage County is recommending \$2,750,000.00 for construction of this regional project. The current list of recommended projects is currently out for public comment. The CDBG-DR grant has a sunset date of September 2019. County has requested the all funds to be expended by June 30, 2019. The project will be under construction in spring of 2018 to allow enough time to complete the project. An Intergovernmental Agreement (IGA) between the two agencies is currently under staff review to identify the term and conditions related to the project.

Basic highlights of the IGA are as follows:

- The Village will be the lead agency during the design as well as permitting process and bear all the associated costs, estimated to be \$80,000.00
- The County will be the lead agency for bidding as well as construction oversight of the project and will fund \$2,750,000.00 for construction.
- Village will continue to be responsible for ongoing maintenance and operations of the facility.

Subject to attorney review, the IGA will be presented at May 23, 2017 Village Board meeting for signatures.

ALTERNATIVES:

Discretion of the Committee.

RECOMMENDATION:

Staff recommends approval of entering into an Intergovernmental Agreement with DuPage County.

BUDGET IMPACT:

N/A.

The Village currently performs ongoing maintenance of the facility and will continue to do so after the project. The County will be granting \$2,750,000 toward the project. The expected cost to the Village for the project will be \$80,000 (engineering and permit fees).

ACTION REQUIRED:

Motion to consider a Resolution approving an Intergovernmental Agreement (IGA) between Village of Bensenville and DuPage County regarding the Redmond Reservoir Expansion Project.

ATTACHMENTS:

Description	Upload Date	Type
DRAFT IGA - Redmond IGA	5/9/2017	Backup Material
MAP - Redmond IGA	5/8/2017	Backup Material
RES - Redmond IGA	5/9/2017	Resolution Letter

INTERGOVERNMENTAL AGREEMENT BETWEEN COUNTY OF DUPAGE, ILLINOIS
AND THE VILLAGE OF BENSENVILLE FOR THE REDMOND RESERVOIR FLOOD
CONTROL PROJECT

This INTERGOVERNMENTAL AGREEMENT is made this ___ day of _____, 2017 between the COUNTY OF DUPAGE, a body politic and corporate, with offices at 421 North County Farm Road, Wheaton, Illinois (hereinafter referred to as the COUNTY) and VILLAGE OF BENSENVILLE, 12 S Center St, Bensenville, IL 60106, a body politic and corporate, with offices at (hereinafter referred to as the VILLAGE).

R E C I T A L S

WHEREAS, the VILLAGE and the COUNTY are public agencies within the meaning of the Illinois “Intergovernmental Cooperation Act” and as authorized by Article 7, Section 10 of the Constitution of the State of Illinois; and

WHEREAS, the purposes of the “Intergovernmental Cooperation Act” and Article 7 of the Constitution of the State of Illinois include fostering cooperation among government bodies; and

WHEREAS, the Illinois General Assembly has granted the COUNTY authority to take action to control flooding and to enter into agreements for the purposes of stormwater management and flood control (Illinois Compiled Statutes, Chapter 55, paragraphs 5/5-1062 and 5/5-15001 et. seq.); and

WHEREAS, the Illinois General Assembly has granted the VILLAGE authority to take action to control flooding and to enter into agreements for the purposes of stormwater management and flood control (Illinois Compiled Statutes, Chapter 65, paragraphs 5/11-110-1 and 5/11-112-6; and

WHEREAS, pursuant to the above-cited authority, the VILLAGE operates and maintains the Redmond Reservoir (RESERVOIR) as a flood control and stormwater management facility serving residents within the Salt Creek watershed; and

WHEREAS, the COUNTY and the VILLAGE jointly propose undertaking modifications to the RESERVOIR (hereafter the PROJECT) to increase its regional floodwater storage capacity (STORAGE COMPONENT); and

WHEREAS, the COUNTY and the VILLAGE have determined that jointly undertaking the PROJECT will benefit nearby residents by reducing damages from floodwaters within the Salt Creek watershed; and

WHEREAS, the COUNTY and VILLAGE have further agreed that the costs to undertake the STORAGE COMPONENT of the PROJECT, which expenses are estimated to total two

million five hundred thousand dollars (\$2,750,000.00) shall be the responsibility of the COUNTY; and

WHEREAS, the COUNTY and VILLAGE have further agreed that the VILLAGE shall be responsible for the ongoing maintenance and operation of the RESERVOIR; and

NOW, THEREFORE, in consideration of the premises, the mutual covenants, terms, and conditions herein set forth, and the understandings of each party to the other, the parties do hereby mutually covenant, promise and agree as follows:

1.0 INCORPORATION AND CONSTRUCTION.

- 1.1 All recitals set forth above are incorporated herein and made a part thereof, the same constituting the factual basis for this AGREEMENT.
- 1.2 The headings of the paragraphs and subparagraphs of this AGREEMENT are inserted for convenience of reference only and shall not be deemed to constitute part of this AGREEMENT or to affect the construction hereof.

2.0 PROJECT DESCRIPTION.

- 2.1 The PROJECT shall be located in the Salt Creek Watershed between Third Avenue and County Line Road within the Village of Bensenville as shown on the PROJECT location map attached as Exhibit A (sometimes referred to herein as the “PROJECT AREA”). Generally, the PROJECT will involve the expansion of the RESERVOIR to increase the STORAGE COMPONENT, including increasing conveyance of stormwater to provide relief from periodic flooding.
- 2.2 The Parties acknowledge that the PROJECT, and the Parties’ ability to perform their respective obligations under this AGREEMENT, is contingent upon the occurrence of events, and the agreements of third parties, beyond the Parties’ ability to control including, namely, the COUNTY’S ability to fully fund its cost obligation with Federal grant monies.

3.0 FUNDING.

- 3.1 The total PROJECT costs are estimated to be two million, eight hundred thirty-thousand dollars and zero cents (\$2,830,000.00). The cost share is as follows, unless otherwise agreed to in writing as provided in Paragraph 3.2 below:

Project Design & Permitting (VILLAGE)	\$80,000
Project Construction & Management (COUNTY)	<u>\$2,750,000</u>
Total Project Cost	\$2,830,000

- 3.2 The COUNTY'S share of the estimated PROJECT costs is to be funded one hundred percent with grant funds from the United States Department of Housing and Urban Development (HUD). In the event the grant funding is revoked, impounded, cancelled, or the U.S. Congress fails to appropriate adequate funding, the COUNTY may terminate this AGREEMENT, and each party shall bear its own costs incurred through the date of termination.
- 3.3 The VILLAGE shall be responsible for bearing any cost overruns or expenses in excess of the total PROJECT costs listed in Paragraph 3.1, regardless of the cause, unless the VILLAGE and COUNTY agree to apportion such extra costs before they are incurred, except as modified by Paragraph 3.4 below.
- 3.4 This AGREEMENT shall in no way obligate the VILLAGE to undertake this PROJECT if the VILLAGE in its sole discretion determines that it is no longer in the VILLAGE'S best interest to proceed with this PROJECT. However, in the event the STORAGE COMPONENT portion of the PROJECT is not substantially completed by August 31, 2019 (excepting the VILLAGE'S post-construction monitoring and maintenance activities, and further excluding any additional work days caused by COUNTY-initiated change orders), the VILLAGE shall promptly reimburse the COUNTY any monies paid by the COUNTY for PROJECT expenses pursuant to this AGREEMENT.

4.0 VILLAGE'S RESPONSIBILITIES.

- 4.1 The VILLAGE shall be responsible for the preparation of the design, plans, specifications, and bid documents for the PROJECT. The VILLAGE may execute one or more contracts with qualified third-party vendors, of the VILLAGE'S selection, to perform these services. The VILLAGE shall be responsible for payment of such services.
- 4.2 The VILLAGE shall require all third-party vendors engaged in PROJECT work to agree to jointly indemnify and insure (in coverage amounts required by the COUNTY) the COUNTY and VILLAGE from and against any liability or damages arising out of the negligent or intentional acts or omissions of such third-party vendors.
- 4.3 The VILLAGE shall be responsible for securing all local, county, state, and federal permits necessary for completion of the PROJECT.
- 4.4 The VILLAGE shall be responsible for submitting copies of the PROJECT plans, specifications, and bid documents to the COUNTY for review and approval prior to bid advertisement for any PROJECT work.

- 4.5 The VILLAGE shall be responsible for submitting copies of each PROJECT permit applications and application-related documents to the COUNTY for review and approval prior to submittal to any regulatory agency.
- 4.6 The VILLAGE may bid for services and, or, enter into additional agreements to secure its portion of the PROJECT costs, or to satisfy the VILLAGE'S obligation under this AGREEMENT. The VILLAGE and its third-party vendors shall be solely responsible for the safety of all individuals performing PROJECT work, but excluding work involving the STORAGE COMPONENT performed by the COUNTY.
- 4.7 The VILLAGE shall be responsible for all post-construction, long-term monitoring of the RESERVOIR together with the maintenance and upkeep of all best management practices (BMPs) built, constructed or installed as part of the PROJECT, which maintenance shall be .

5.0 COUNTY'S RESPONSIBILITIES.

- 5.1 The COUNTY shall review and approve the PROJECT plans, specifications, bid documents, permit applications and application-related documents prior to the VILLAGE's final acceptance of such documents from the VILLAGE's third-party vendors. The COUNTY'S reviews and approvals shall be for the purpose of verifying that all PROJECT phases are coordinated and in conformity to this AGREEMENT.
- 5.2 Following the VILLAGE's delivery of satisfactory PROJECT plans, specifications, and bid documents, the COUNTY shall advertise and award all bids, and enter into all contracts with COUNTY-selected contractor(s), to construct the PROJECT's STORAGE COMPONENT.
- 5.3 The COUNTY and its contractor(s) shall be solely responsible for the safety of all individuals performing work on the STORAGE COMPONENT, but excluding any PROJECT work performed by the VILLAGE and, or, it's employees, contractors, consultants and agents.
- 5.4 The COUNTY shall review and approve any subsequent change orders, addendums, or revisions thereto from the construction contractor(s). The COUNTY shall notify the VILLAGE of any change orders that shall increase the overall PROJECT costs by over five-percent (5%).
- 5.5 The COUNTY shall directly invoice the VILLAGE for any PROJECT work performed by a construction contractor which is not part of the scope of work for the STORAGE COMPONENT.

6.0 JOINT RESPONSIBILITIES.[MP1][HS2]

- 6.1 Each Party shall be allowed unlimited, but reasonable, access to the various PROJECT'S areas in order to observe and review said PROJECT work areas, attend regular progress meetings with the contractor(s) and, or, construction manager, and to attend any regulatory inspections. Each Party shall provide the other Party with reasonable access to all work documents (i.e., plans, change orders, field orders, manager diaries, etc.), or provide copies thereof, and shall share any data collected as part of the PROJECT.
- 6.2 Whenever this AGREEMENT requires either Party (First Party) to provide its review, comment, consent and, or, approval to the other Party (Second Party), the First Party shall act with reasonable promptness, and the Second Party shall not unreasonably withhold, condition, delay or deny the matter or action requested of it.
- 6.3 Each Party (First Party) shall acknowledge the role and participation of the other Party (Second Party), using any logo(s) and/or wording provided by the Second Party, in any of the First Party's printed materials, on-site signage, or websites promoting the PROJECT.
- 6.4 The Party's shall comply with all local, county, state and federal requirements now in force, or which may hereafter be in force, pertaining to the PROJECT.
- 6.5 The Party's shall keep and maintain all records pertaining to the expenditure of funds for the PROJECT, (including bid documents, plan sets, final drawings, change orders, construction diaries, invoices, contractor/consultant contracts, proof of payment, certified payroll records, time sheets, etc.) in strict accordance with the book-keeping requirements of the CDBG-DR to the COUNTY and, further, shall allow the other Party, the State agencies, or their auditors (and audit contractors/consultants), access to such records for review and copying. Each Party shall cooperate in any audit of the PROJECT or of any grant funds.

7.0 INDEMNIFICATION.

- 7.1 Each Party (First Party) shall indemnify, hold harmless and defend the other Party (Second Party) or any of the Second Party's officials, officers, employees, and agents from and against all liability, claims, suits, demands, liens, proceedings and actions, including costs, fees and expense of defense, arising from, growing out of, or related to, any loss, damage, injury, death, or loss or damage to property resulting from, or connected with, the First Party's performance under this AGREEMENT to the fullest extent that the First Party is so authorized under the law; provided, however, that the First Party shall not be obligated to indemnify, hold harmless and defend the Second Party for any negligent or intentional wrongful misconduct or omissions by the Second Party's officials, employees, agents, contractors or personnel.
- 7.2 The Parties shall require each consultant and contractor responsible for the construction, maintenance, or monitoring of any PROJECT work to name both

the VILLAGE and COUNTY as an additional insured party on said vendor's liability insurance policy. Further, the Parties shall require that its consultants and contractors indemnify, defend and hold harmless both the VILLAGE and COUNTY, and their officers, employees and elected officials, from and against any claims, liability or judgments resulting from, or caused by, the negligence or willful conduct of such consultant and, or contractor.

- 7.3 Nothing contained herein shall be construed as prohibiting the COUNTY, its officials, directors, officers, agents and employees, from defending through the selection and use of their own agents, attorneys and experts, any claims, suits, demands, liens, proceedings and actions brought against them. Pursuant to Illinois law, any attorney representing the COUNTY, under this paragraph or paragraph 7.1 is to be the State's Attorney, in accord with the applicable law. The COUNTY'S participation in its defense shall not remove VILLAGE'S duty to indemnify, defend, and hold the COUNTY harmless, as set forth above.
- 7.4 The indemnity as provided in this AGREEMENT shall not be limited by reason of any insurance coverage maintained by the Parties or their consultants, contractors or agents. The indemnification obligations created herein shall survive the termination, or expiration, of this AGREEMENT.
- 7.5 The Parties further agree that, notwithstanding any language above, no party waives, by these indemnity requirements, any defenses or protections under the Local Government and Governmental Employees Tort Liability Act (745 ILCS 10/1 et seq.), or otherwise available to it, or available to the other parties, under the law and that there shall be no obligation to indemnify whenever a Party has a defense or protection to a claim under the Act or common law. There are no third person beneficiaries of this AGREEMENT or any portion of this AGREEMENT.

8.0 AMENDMENT OR MODIFICATION OF THIS AGREEMENT.

- 8.1 The parties may modify or amend terms of this AGREEMENT only by a written document duly approved and executed by both parties, excluding term extensions as provided for in the following provision.
- 8.2 Notwithstanding Paragraph 8.1, above, the term for performing this AGREEMENT may be extended by any suitable COUNTY designated form, signed by both parties without formal amendment pursuant to Paragraph 8.1, above.

9.0 TERM OF THIS AGREEMENT.

- 9.1 The term of this AGREEMENT shall begin on the date the AGREEMENT is fully executed, and shall continue in full force and effect until the earlier of the following occurs:

9.1.1 June 1, 2019 or to a new date agreed upon by the parties.

9.1.2 The completion by the VILLAGE and COUNTY of their respective obligations under this AGREEMENT, in the event such completion occurs before June 1, 2019.

10.0 ENTIRE AGREEMENT.

10.4 This AGREEMENT, including matters incorporated herein, contains the entire AGREEMENT between parties.

10.5 There are no other covenants, warranties, representations, promises, conditions or understandings; either oral or written, other than those contained herein.

10.6 This AGREEMENT may be executed in one or more counterparts, each of which shall for all purposes be deemed to be an original and all of which shall constitute the same instrument.

10.7 In event of a conflict between the terms or conditions or this AGREEMENT and any term or condition found in any exhibit or attachment, the terms and conditions of this AGREEMENT shall prevail.

11.0 SEVERABILITY.

11.1 In the event any provision of this AGREEMENT is held to be unenforceable or invalid for any reason, the enforceability thereof shall not affect the remainder of the AGREEMENT. The remainder of this AGREEMENT shall be construed as if not containing the particular provision and shall continue in full force, effect, and enforceability, in accordance with its terms.

12.0 GOVERNING LAW.

12.10 The laws of the State of Illinois shall govern this AGREEMENT as to both interpretation and performance.

12.11 The venue for resolving any disputes concerning the parties' respective performance, or failure to perform, under this AGREEMENT, shall be the judicial circuit court for DuPage County.

13.0 NOTICES.

13.10 Any required notice shall be sent to the following addresses and parties:

Evan Summers, Village Manager and
Joseph Caracci, P.E., Director of Public Works
717 E. Jefferson Street
Bensenville, Illinois 60106
(630)350-3435

Sarah Hunn, P.E.
Chief Project Engineer
DuPage County Stormwater Management
421 North County Farm Road
Wheaton, Illinois 60187
(630)407-6720

14.0 WAIVER OF/FAILURE TO ENFORCE BREACH.

14.1 The parties agree that the waiver of, or failure to enforce, any breach of this AGREEMENT by the remaining party shall not be construed, or otherwise operate, as a waiver of any future breach of this AGREEMENT. Further the failure to enforce any particular breach shall not bar or prevent the remaining party from enforcing this AGREEMENT with respect to a different breach.

IN WITNESS OF, the parties set their hands and seals as of the date first written above.

COUNTY OF DUPAGE

VILLAGE OF BENSENVILLE

Daniel J. Cronin,
Chairman

Frank DeSimone
President

ATTEST:

ATTEST:

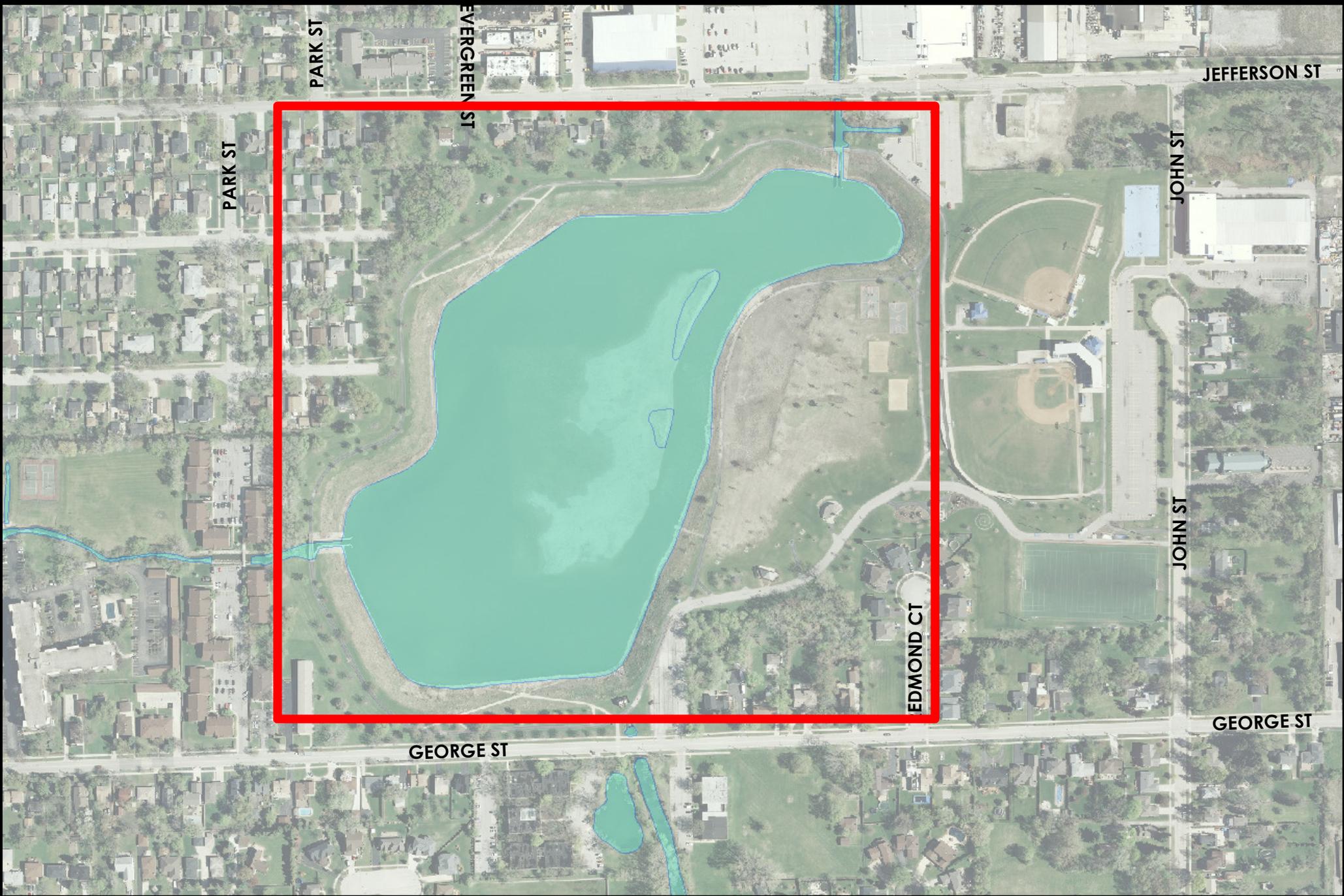
Paul Hinds,
County Clerk

Nancy Quinn
Village Clerk



Village of Bensenville

Redmond Reservoir Expansion



RESOLUTION NO. _____

RESOLUTION APPROVING AN INTERGOVERNMENTAL COOPERATION AGREEMENT BETWEEN THE VILLAGE OF BENSENVILLE AND DUPAGE COUNTY REGARDING THE REDMOND RESERVOIR EXPANSION PROJECT

WHEREAS, the VILLAGE and the COUNTY are public agencies within the meaning of the Illinois “Intergovernmental Cooperation Act” and as authorized by Article 7, Section 10 of the Constitution of the State of Illinois; and

WHEREAS, the purposes of the “Intergovernmental Cooperation Act” and Article 7 of the Constitution of the State of Illinois include fostering cooperation among government bodies; and

WHEREAS, the Illinois General Assembly has granted the COUNTY authority to take action to control flooding and to enter into agreements for the purposes of stormwater management and flood control (Illinois Compiled Statutes, Chapter 55, paragraphs 5/5-1062 and 5/5-15001 et. seq.); and

WHEREAS, the Illinois General Assembly has granted the VILLAGE authority to take action to control flooding and to enter into agreements for the purposes of stormwater management and flood control (Illinois Compiled Statutes, Chapter 65, paragraphs 5/11-110-1 and 5/11-112-6; and

WHEREAS, pursuant to the above-cited authority, the VILLAGE operates and maintains the Redmond Reservoir (RESERVOIR) as a flood control and stormwater management facility serving residents within the Salt Creek watershed; and

WHEREAS, the COUNTY and the VILLAGE jointly propose undertaking modifications to the RESERVOIR (hereafter the PROJECT) to increase its regional floodwater storage capacity (STORAGE COMPONENT); and

WHEREAS, the COUNTY and the VILLAGE have determined that jointly undertaking the PROJECT will benefit nearby residents by reducing damages from floodwaters within the Salt Creek watershed; and

WHEREAS, the COUNTY and VILLAGE have further agreed that the costs to undertake the STORAGE COMPONENT of the PROJECT, which expenses are estimated to total two million seven hundred fifty thousand dollars (\$2,750,000.00) shall be the responsibility of the COUNTY; and

WHEREAS, the COUNTY and VILLAGE have further agreed that the costs to undertake the DESIGN as well as PERMITTING COMPONENT of the PROJECT, which

expenses are estimated to eighty thousand dollars (\$80,000.00) shall be the responsibility of the VILLAGE; and

WHEREAS, the COUNTY and VILLAGE have further agreed that the VILLAGE shall be responsible for the ongoing maintenance and operation of the RESERVOIR; and

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

SECTION ONE: The foregoing recitals are hereby incorporated by reference in this Section One as if fully set forth.

SECTION TWO: The Intergovernmental Agreement attached hereto as Exhibit 1 shall be and is hereby approved, and the President and Village Clerk shall be and are hereby authorized and directed, respectively, to execute and to attest to said Agreement in substantially the form attached hereto.

SECTION THREE: This Resolution shall be in full force and effect from and after its passage and approval in the manner provided by law.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Bensenville, this _____ day of May, 2017.

Frank DeSimone
Village President

ATTEST:

Nancy Quinn, Village Clerk

AYES: _____

NAYS: _____

ABSENT: _____

TYPE:Resolution**SUBMITTED BY:**Joe Caracci**DEPARTMENT:**Public Works**DATE:**May 15, 2017**DESCRIPTION:**

Consideration of a Resolution Authorizing a Design Engineering Services Agreement with Engineering Resource Associates for the Redmond Reservoir Expansion Project (CDBG) in the Not-to-Exceed Amount of \$77,895.66

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

- | | |
|---|--|
| <input checked="" type="checkbox"/> <i>Financially Sound Village</i> | <input checked="" type="checkbox"/> <i>Enrich the lives of Residents</i> |
| <input checked="" type="checkbox"/> <i>Quality Customer Oriented Services</i> | <i>Major Business/Corporate Center</i> |
| <input checked="" type="checkbox"/> <i>Safe and Beautiful Village</i> | <i>Vibrant Major Corridors</i> |

COMMITTEE ACTION:

I&E

DATE:

May 15, 2017

BACKGROUND:

The Village of Bensenville has experienced frequent and severe flooding upstream and downstream of Redmond Reservoir. In 2015, the Village completed the Redmond Reservoir H&H study that identifies several improvements that will help alleviate some of the flooding concerns. Included in these recommendations is an expansion of the Redmond Reservoir to provide additional capacity. Over the past year, Village staff has been working diligently with DuPage County to secure CDBG-DR funds for this regional project. DuPage County is recommending \$2,750,000.00 for construction of this regional project. The list of recommended projects is currently out for public comment. The Village will be the lead agency during the design as well as permitting process while the County will be the lead agency for bidding as well as construction oversight of the project. An Intergovernmental Agreement (IGA) between the two agencies is currently under staff review to identify the terms and conditions related to the project.

KEY ISSUES:

The CDBG-DR grant has a sunset date of September 2019. County has requested that all funds be expended by June 30, 2019. The project will be under construction in spring of 2018 to allow enough time to complete the project.

Engineering Resource Associates (ERA) has performed the H&H analysis on the Redmond Reservoir. They also performed the design of the recently completed George St Culvert Replacement Project, funded through CDBG-DR. ERA is also assisting the Village to rectify DuPage County Stormwater violations at the George St compensatory storage basin and downstream of the culvert along Addison Creek Tributary 3. They have the modeling and all the backup information surrounding the Redmond reservoir. The Village staff feels very confident of retaining them to perform the design engineering of the Redmond Reservoir Expansion Project due to their excellent professional skills, knowledge, and familiarity of the project area. The project team of ERA and Village staff has worked well together in the past and staff recommends continuing with this team for the upcoming project.

The proposed assignment scope includes topographic survey, preparing plans and bid specifications, permitting, bidding assistance, and geotechnical investigation of existing conditions. ERA's original proposed work effort and fee total was in the amount of \$78,655.26. After successful negotiations, ERA reduced its proposed design work effort and fee totals to \$77,895.66 including approximately \$1,800 in outside agency permit fees, which were not part of the original cost. This results in savings of \$759.60. This not-to-exceed fee equates to 2.8% of the Engineer's estimated cost \$2,750,000.00 for the project. Design engineering costs typically fall in the 5-8% range for similar projects.

ALTERNATIVES:

Discretion of the Committee.

RECOMMENDATION:

Staff recommends approval of the Engineering Service Agreement with Engineering Resource Associates

for the Redmond Reservoir Expansion Project.

BUDGET IMPACT:

In FY 2017, a total of \$143,500 is budgeted for design engineering services of this project. The savings of \$65,604.34 from that project will be applied towards design engineering of George St Bypass Project.

ACTION REQUIRED:

Approval of a Resolution authorizing a design engineering services agreement with Engineering Resource Associates for the Redmond Reservoir Expansion Project (CDBG) in the not-to-exceed amount of \$77,895.66.

ATTACHMENTS:

Description	Upload Date	Type
Original Proposal	5/5/2017	Backup Material
Revised Proposal	5/5/2017	Backup Material
Location Map	5/5/2017	Backup Material
Resolution	5/5/2017	Resolution Letter



ENGINEERING
RESOURCE ASSOCIATES

Scope of Work

May 3, 2017

**SUBJECT: Village of Bensenville:
Redmond Reservoir Expansion**

ERA will provide engineering services in accordance with the following work plan.

1. **Meetings and Coordination** – We will work closely with staff and other stakeholders to maintain communication throughout the duration of the project including obtaining information, providing progress updates and discussing relevant issues. ERA will provide coordination with key stakeholders such as reviewing agencies and other parties having an interest in the project. This task includes preparation of meeting agendas and preparation of minutes following the meeting. The following meetings are anticipated.
 - a. **Coordination Meeting** – ERA will schedule and attend a coordination meeting with Village staff to discuss the design project. It is anticipated that one coordination meeting will occur following the Village's 65% review and 95% review.
 - b. **Public Meeting** – ERA will attend and present the Reservoir design at a public meeting. The purpose of the meeting is to provide a forum for impacted residents to ask questions and present concerns relating to the project prior to construction.
2. **Supplemental Survey** – The survey of Redmond Reservoir was performed as part of the 2015 analysis. ERA will perform a supplemental survey to fill in any gaps or to survey any changes that may have occurred. This may include additional overlap to the east to determine construction access, drainage features, areas available for respreads of soil, etc.
3. **Base Plans** – The existing conditions plans for Redmond Reservoir were completed as part of the 2015 analysis. This task includes adding any new information collected or surveyed from task 2 above.
4. **Geotechnical Analysis** – It is anticipated that five soil borings at a depth of 15' will be performed throughout the project area. Boring locations are planned to be within the Redmond Reservoir Expansion Area. Soil sampling will also be performed in accordance with Clean Construction or Demolition Debris (CCDD) requirements as outlined under Illinois Environmental Protection Agency (IEPA) regulations. This task is included to prepare the PE certification needed for CCDD under the IEPA regulations using the LPC-662 Form and/or the LPC-663 Form, as appropriate for each specific project location.
5. **Pump Performance Assessment** – Our sub consultant Ruekert and Mielke (R/M) will perform the following tasks as part of the Pump Performance Assessment:
 - a. Conduct a site visit to evaluate the pump station and discuss operations and maintenance of pumps with Village staff.
 - b. Analyze the existing pump performance, operation, and hydraulics to determine potential pump upgrades. These may include mechanical or electrical improvements.

- c. Coordinate with local pump manufacturers and determine annual energy savings by increasing pump efficiency.
 - d. Provide a summary report of findings with recommendations and preliminary costs.
6. **Shoreline Assessment** – ERA will perform shoreline assessment of Redmond Reservoir. ERA will utilize our handheld GPS unit (Promark 120 which gets sub-meter accuracy) to perform the assessment. The collector can take photos, video, voice recordings, ground shots, etc. Bank erosion, invasive species, head cuts, etc. will be recorded. This data will be in state/plane coordinates and can be imported into final construction documents.
7. **Hydrologic and Hydraulic Analysis** – Using the XPSWMM modeling from the Redmond Reservoir Hydraulic Analysis completed in 2015 ERA will perform the following analyses:
 - a. Verification – ERA will use the proposed conditions model of the recommended alternatives to verify that the designed George Street Bypass Sewer and the Redmond Reservoir Expansion continue to meet the goals set forth in the 2015 study.
 - b. Wetland Inundation/Duration – ERA will use the existing conditions model with the designed George Street Bypass and Redmond Reservoir Expansion added to it to perform an inundation/duration analysis of the wetlands located north of George Street and west of Redmond. This will be required to show that the improvements do not have indirect impacts to those wetlands.
 - c. Pump Evaluation – ERA will use the proposed conditions model of the recommended alternatives to evaluate potential new pump capacity, revised pump capacity, and revised pump timing. The evaluation will ensure that the proposed plans continue to meet the 2015 study goals and potentially maximize storage by revising pump operations.
8. **Pump Design** – For the purpose of this proposal it is anticipated that improvements will be limited to pump re-build upgrades. R/M will provide design documents that are anticipated to include details and specifications for incorporation into the 65%, 90%, QA/QC, and 100% submittals. This task does not include pump replacement that would require structural, mechanical, or electrical design as this can take significantly more effort depending on what is found in the Pump Assessment task.
9. **65% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (65%) for the reservoir expansion. It is anticipated that plans will include the following sheets:
 - a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Reservoir Grading Plan
 - g. Stormwater Pollution Prevention Plans
 - h. Restoration Plans
 - i. Pump Improvement Plans
 - j. Tree Removal and Preservation Plans

- k. Construction Details
- l. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 95% plans.

10. **Permitting** – It is anticipated that permits will be acquired for the George Street Bypass and Redmond Expansion under this proposal. Anticipated permitting authorities include:

- a. DuPage County – Stormwater Approval
- b. Army Corps – Waters of the US
- c. IEPA – Notice of Intent
- d. Kane/DuPage SWCD – Erosion Control
- e. IDNR/OWR – Delegation letter to DuPage County

ERA will prepare permit applications and submit permit documents to acquire the above approvals. Permitting fees will be passed through to the Village and have not been included in the proposal cost.

11. **Structural Inspection** – ERA will perform structural inspections of the north and west spillways and of the pump outlet structure. ERA will provide a brief report documenting our findings. Structural design services are not anticipated as part of this project.

12. **95% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (95%) for the reservoir expansion. It is anticipated that plans will include the following sheets:

- a. Cover Sheet and Location Map
- b. General Notes and Typical Sections
- c. Summary of Quantities and Schedule of Quantities
- d. Alignment, Ties and Benchmarks
- e. Traffic Control Plans and Details
- f. Reservoir Grading Plan
- g. Stormwater Pollution Prevention Plans
- h. Restoration Plans
- i. Pump Improvement Plans
- j. Tree Removal and Preservation Plans
- k. Construction Details
- l. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 100% plans.

13. **QA/QC Submittal** – ERA will submit to the Village final engineering plans, specs, and estimates for the Redmond Reservoir Expansion for final QA/QC review. ERA will also perform a final internal QA/QC review prior to issuing the 100% PS&E.



ENGINEERING
RESOURCE ASSOCIATES

Scope of Work

14. **100% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (100%) for the reservoir expansion. It is anticipated that plans will include the following sheets:
- m. Cover Sheet and Location Map
 - n. General Notes and Typical Sections
 - o. Summary of Quantities and Schedule of Quantities
 - p. Alignment, Ties and Benchmarks
 - q. Traffic Control Plans and Details
 - r. Reservoir Grading Plan
 - s. Stormwater Pollution Prevention Plans
 - t. Restoration Plans
 - u. Pump Improvement Plans
 - v. Tree Removal and Preservation Plans
 - w. Construction Details
 - x. Cost Estimate

This task includes the preparation of specifications and a final engineer's opinion of probable construction cost.

15. **Bidding Assistance** – ERA will provide bidding assistance for the project. This work will include answering bidder questions, attendance at a pre-bid meeting, preparation of addenda as required, tabulation of bids, reference checks and recommendations for award of the construction contract.



Average Hourly Project Rates

Route Redmond Reservoir Expansion
 Section _____
 County _____
 Job No. _____
 PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/03/17

Sheet 1 OF 1

Payroll Classification	Avg Hourly Rates	Total Project Rates			Meetings and Coordination			Supplemental Survey			Base Plans			Geotechnical Analysis			Pump Performance Assessment		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	\$70.00	0																	
Professional Engineer V	\$57.00	40	6.38%	3.64															
Professional Engineer IV	\$55.00	66	10.53%	5.79	8	30.77%	16.92	1	5.56%	3.06	1	11.11%	6.11			32	40.51%	23.09	
Professional Engineer III	\$50.00	142	22.65%	11.32	18	69.23%	34.62									44	55.70%	27.85	
Professional Engineer II	\$40.00	80	12.76%	5.10															
Professional Engineer I	\$38.50	68	10.85%	4.18															
Staff Engineer I	\$30.00	116	18.50%	5.55															
Engineering Technician V	\$38.00	66	10.53%	4.00							8	88.89%	33.78						
Engineering Technician IV	\$32.00	0																	
Engineering Technician III	\$26.00	0																	
Environmental Director	\$45.00	24	3.83%	1.72															
Environmental Specialist II	\$30.00	0																	
Environmental Specialist I	\$25.50	0																	
Professional Surveyor I	\$43.00	1	0.16%	0.07				1	5.56%	2.39									
Surveyor IV	\$30.00	0						16	88.89%	24.22									
Surveyor III	\$27.25	16	2.55%	0.70															
Surveyor II	\$20.00	0																	
Administrative Staff III	\$25.00	4	0.64%	0.16															
Structural Engineer II	\$56.00	4	0.64%	0.36															
Engineering Intern II	\$14.00	0																	
Engineering Intern I	\$12.00	0																	
		0																	
		0																	
		0																	
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		0																	
TOTALS		627	100%	\$42.58	26	100%	\$51.54	18	100%	\$29.67	9	100%	\$39.89	0	0%	\$0.00	79	100%	\$51.89



Average Hourly Project Rates

Route Redmond Reservoir Expansion

Section _____

County _____

Job No. _____

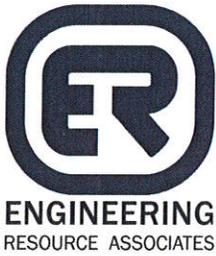
PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/03/17

Sheet 2 OF 1

Payroll Classification	Avg Hourly Rates	Shoreline Assessment			Hydrologic/Hydraulic Analysis			Pump Design			65% PS&E			Permitting			Structural Inspection		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	\$70.00																		
Professional Engineer V	\$57.00																		
Professional Engineer IV	\$55.00				24	37.50%	20.63	8	24.24%	13.82	8	8.00%	4.40	8	9.09%	5.00			
Professional Engineer III	\$50.00																		
Professional Engineer II	\$40.00				40	62.50%	25.00	24	72.73%	36.36	20	20.00%	10.00	40	45.45%	18.18			
Professional Engineer I	\$38.50	12	75.00%	28.88							8	8.00%	3.08	40	45.45%	17.50			
Staff Engineer I	\$30.00										32	32.00%	9.60	40	45.45%	17.50	28	87.50%	26.25
Engineering Technician V	\$38.00										24	24.00%	9.12						
Engineering Technician IV	\$32.00																		
Engineering Technician III	\$26.00																		
Environmental Director	\$45.00	4	25.00%	11.25							8	8.00%	3.60						
Environmental Specialist II	\$30.00																		
Environmental Specialist I	\$25.50																		
Professional Surveyor I	\$43.00																		
Surveyor IV	\$30.00																		
Surveyor III	\$27.25																		
Surveyor II	\$20.00																		
Administrative Staff III	\$25.00																		
Structural Engineer II	\$66.00																		
Engineering Intern II	\$14.00																		
Engineering Intern I	\$12.00																		
TOTALS		16	100%	\$40.13	64	100%	\$45.63	33	100%	\$50.94	100	100%	\$39.80	88	100%	\$40.68	32	100%	\$33.25



Scope of Work

May 3, 2017

**SUBJECT: Village of Bensenville:
Redmond Reservoir Expansion**

ERA will provide engineering services in accordance with the following work plan.

1. **Meetings and Coordination** – We will work closely with staff and other stakeholders to maintain communication throughout the duration of the project including obtaining information, providing progress updates and discussing relevant issues. ERA will provide coordination with key stakeholders such as reviewing agencies and other parties having an interest in the project. This task includes preparation of meeting agendas and preparation of minutes following the meeting. The following meetings are anticipated.
 - a. **Coordination Meeting** – ERA will schedule and attend a coordination meeting with Village staff to discuss the design project. It is anticipated that one coordination meeting will occur following the Village's 65% review and 95% review. An additional coordination meeting with DuPage County is also anticipated.
 - b. **Public Meeting** – ERA will attend and present the Reservoir design at a public meeting. The purpose of the meeting is to provide a forum for impacted residents to ask questions and present concerns relating to the project prior to construction.
2. **Supplemental Survey** – The survey of Redmond Reservoir was performed as part of the 2015 analysis. ERA will perform a supplemental survey to fill in any gaps or to survey any changes that may have occurred. This may include additional overlap to the east to determine construction access, drainage features, areas available for respreads of soil, etc.
3. **Base Plans** – The existing conditions plans for Redmond Reservoir were completed as part of the 2015 analysis. This task includes adding any new information collected or surveyed from task 2 above.
4. **Geotechnical Analysis** – It is anticipated that five soil borings at a depth of 15' will be performed throughout the project area. Boring locations are planned to be within the Redmond Reservoir Expansion Area. Two pavement cores will also be taken on the existing path. Soil sampling will also be performed in accordance with Clean Construction or Demolition Debris (CCDD) requirements as outlined under Illinois Environmental Protection Agency (IEPA) regulations. This task is included to prepare the PE certification needed for CCDD under the IEPA regulations using the LPC-662 Form and/or the LPC-663 Form, as appropriate for each specific project location.
5. **Pump Performance Assessment** – Our sub consultant Ruekert and Mielke (R/M) will perform the following tasks as part of the Pump Performance Assessment:
 - a. Conduct a site visit to evaluate the pump station and discuss operations and maintenance of pumps with Village staff.



Scope of Work

- b. Analyze the existing pump performance, operation, and hydraulics to determine potential pump upgrades. These may include mechanical or electrical improvements.
 - c. Coordinate with local pump manufacturers and determine annual energy savings by increasing pump efficiency.
 - d. Provide a summary report of findings with recommendations and preliminary costs.
6. **Shoreline Assessment** – ERA will perform shoreline assessment of Redmond Reservoir. ERA will utilize our handheld GPS unit (Promark 120 which gets sub-meter accuracy) to perform the assessment. The collector can take photos, video, voice recordings, ground shots, etc. Bank erosion, invasive species, head cuts, etc. will be recorded. This data will be in state/plane coordinates and can be imported into final construction documents.
7. **Hydrologic and Hydraulic Analysis** – Using the XPSWMM modeling from the Redmond Reservoir Hydraulic Analysis completed in 2015 ERA will perform the following analyses:
 - a. Verification – ERA will use the proposed conditions model of the recommended alternatives to verify that the designed George Street Bypass Sewer and the Redmond Reservoir Expansion continue to meet the goals set forth in the 2015 study.
 - b. Wetland Inundation/Duration – ERA will use the existing conditions model with the designed George Street Bypass and Redmond Reservoir Expansion added to it to perform an inundation/duration analysis of the wetlands located north of George Street and west of Redmond. This will be required to show that the improvements do not have indirect impacts to those wetlands.
 - c. Pump Evaluation – ERA will use the proposed conditions model of the recommended alternatives to evaluate potential new pump capacity, revised pump capacity, and revised pump timing. The evaluation will ensure that the proposed plans continue to meet the 2015 study goals and potentially maximize storage by revising pump operations.
8. **Pump Design** – For the purpose of this proposal it is anticipated that improvements will be limited to pump re-build upgrades. R/M will provide design documents that are anticipated to include details and specifications for incorporation into the 65%, 90%, QA/QC, and 100% submittals. This task does not include pump replacement that would require structural, mechanical, or electrical design as this can take significantly more effort depending on what is found in the Pump Assessment task.
9. **65% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (65%) for the reservoir expansion. It is anticipated that plans will include the following sheets:
 - a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Reservoir Grading Plan
 - g. Path Resurfacing
 - h. Stormwater Pollution Prevention Plans



Scope of Work

- i. Restoration Plans
- j. Pump Improvement Plans
- k. Tree Removal and Preservation Plans
- l. Construction Details
- m. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 95% plans. Assuming contract approval in June, we anticipate completing this task by August 1, 2017.

10. Permitting – It is anticipated that permits will be acquired for the George Street Bypass and Redmond Expansion under this proposal. Anticipated permitting authorities include:

- a. DuPage County – Stormwater Approval
- b. Army Corps – Waters of the US
- c. IEPA – Notice of Intent
- d. Kane/DuPage SWCD – Erosion Control
- e. IDNR/OWR – Delegation letter to DuPage County

ERA will prepare permit applications and submit permit documents to acquire the above approvals. Permitting fees for the Army Corps and Kane/DuPage SWCD have been included. It is anticipated that DuPage County will waive their permitting fees as they are a partner on the project.

11. Structural Inspection – ERA will perform structural inspections of the north and west spillways and of the pump outlet structure. ERA will provide a brief report documenting our findings. Structural design services are not anticipated as part of this project. This task includes design for routing maintenance items such as fence replacement.

12. 95% Plans, Specifications and Estimates (PS&E) – This task includes the preparation of PS&E (95%) for the reservoir expansion. It is anticipated that plans will include the following sheets:

- a. Cover Sheet and Location Map
- b. General Notes and Typical Sections
- c. Summary of Quantities and Schedule of Quantities
- d. Alignment, Ties and Benchmarks
- e. Traffic Control Plans and Details
- f. Reservoir Grading Plan
- g. Path Resurfacing
- h. Stormwater Pollution Prevention Plans
- i. Restoration Plans
- j. Pump Improvement Plans
- k. Tree Removal and Preservation Plans
- l. Construction Details
- m. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction



Scope of Work

cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 100% plans. Assuming contract approval in June, we anticipate completing this task by September 8, 2017.

13. **QA/QC Submittal** – ERA will submit to the Village final engineering plans, specs, and estimates for the Redmond Reservoir Expansion for final QA/QC review. ERA will also perform a final internal QA/QC review prior to issuing the 100% PS&E.
14. **100% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (100%) for the reservoir expansion. It is anticipated that plans will include the following sheets:
 - n. Cover Sheet and Location Map
 - o. General Notes and Typical Sections
 - p. Summary of Quantities and Schedule of Quantities
 - q. Alignment, Ties and Benchmarks
 - r. Traffic Control Plans and Details
 - s. Reservoir Grading Plan
 - t. Path Resurfacing
 - u. Stormwater Pollution Prevention Plans
 - v. Restoration Plans
 - w. Pump Improvement Plans
 - x. Tree Removal and Preservation Plans
 - y. Construction Details
 - z. Cost Estimate

This task includes the preparation of specifications and a final engineer's opinion of probable construction cost.

15. **Bidding Assistance** – ERA will provide bidding assistance for the project. This work will include answering bidder questions, attendance at a pre-bid meeting, preparation of addenda as required.



Average Hourly Project Rates

Route Redmond Reservoir Expansion
 Section _____
 County _____
 Job No. _____
 PTB/item _____

Consultant Engineering Resource Associates, Inc.

Date 05/05/17

Sheet 1 OF 1

Payroll Classification	Avg Hourly Rates	Total Project Rates			Meetings and Coordination			Supplemental Survey			Base Plans			Geotechnical Analysis			Pump Performance Assessment			
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	
Professional Engineer VI	\$70.00	0																		
Professional Engineer V	\$57.00	0																		
Professional Engineer IV	\$55.00	64	13.25%	7.29	10	35.71%	19.64	1	5.56%	3.06	1	11.11%	6.11							
Professional Engineer III	\$50.00	62	12.84%	6.42	18	64.29%	32.14													
Professional Engineer II	\$40.00	80	16.56%	6.63																
Professional Engineer I	\$38.50	68	14.08%	5.42																
Staff Engineer I	\$30.00	112	23.19%	6.96																
Engineering Technician V	\$38.00	48	9.94%	3.78																
Engineering Technician IV	\$32.00	0																		
Engineering Technician III	\$26.00	0																		
Engineering Technician II	\$45.00	24	4.97%	2.24																
Environmental Specialist II	\$30.00	0																		
Environmental Specialist I	\$25.50	0																		
Professional Surveyor I	\$43.00	1	0.21%	0.09				1	5.56%	2.39										
Surveyor IV	\$30.00	0																		
Surveyor III	\$27.25	16	3.31%	0.90				16	88.89%	24.22										
Surveyor II	\$20.00	0																		
Administrative Staff III	\$25.00	0																		
Structural Engineer II	\$56.00	8	1.66%	0.93																
Engineering Intern II	\$14.00	0																		
Engineering Intern I	\$12.00	0																		
		0																		
		0																		
		0																		
		0																		
		0																		
		0																		
		0																		
		0																		
TOTALS		483	100%	\$40.64	28	100%	\$51.79	18	100%	\$29.67	9	100%	\$39.89	0	0%	\$0.00	0	0%	\$0.00	



Average Hourly Project Rates

Route Redmond Reservoir Expansion
 Section _____
 County _____
 Job No. _____
 PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/05/17

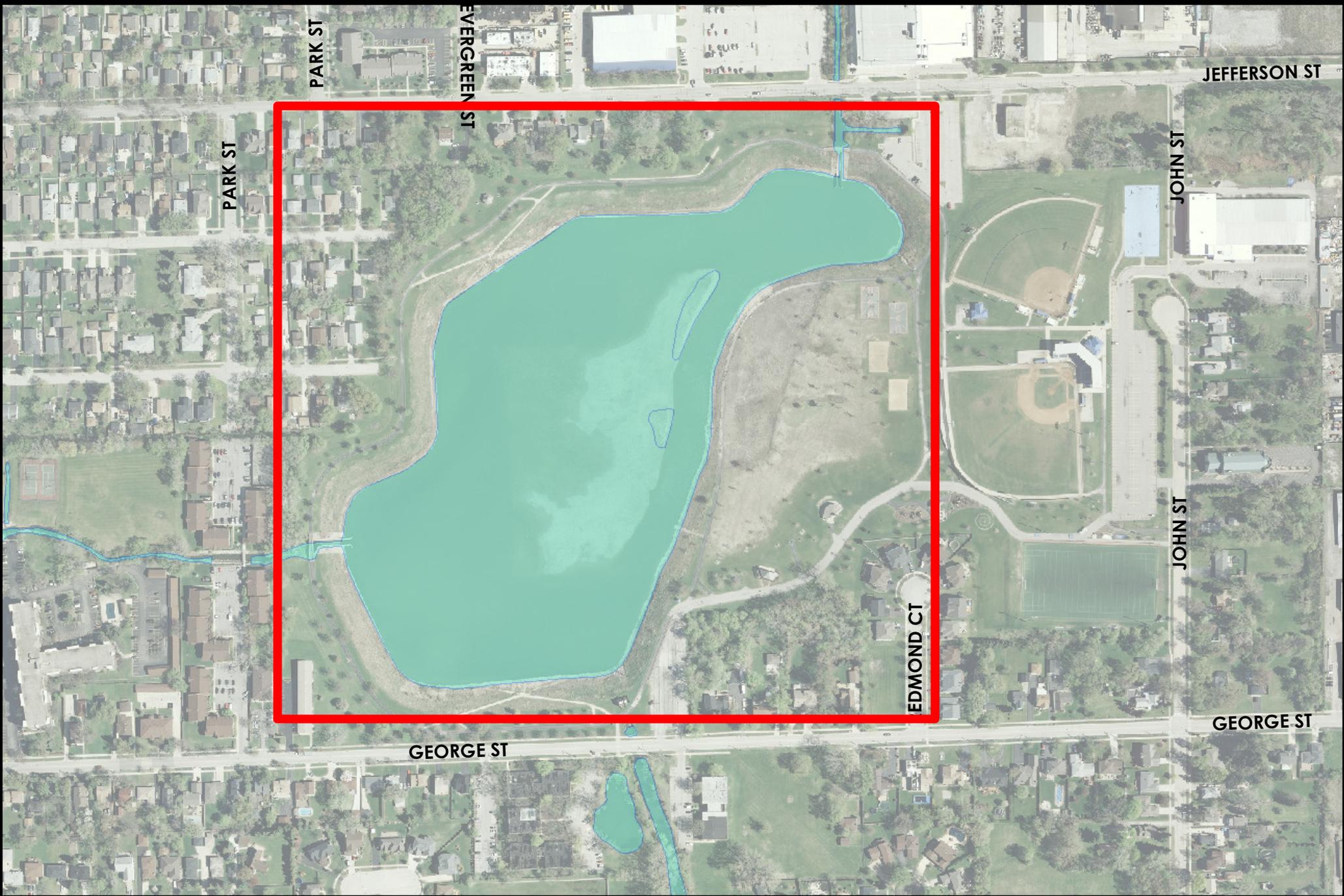
Sheet 2 OF 1

Payroll Classification	Avg Hourly Rates	Shoreline Assessment			Hydrologic/Hydraulic Analysis			Pump Design			65% PS&E			Permitting			Structural Inspection		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	\$70.00																		
Professional Engineer V	\$57.00																		
Professional Engineer IV	\$55.00				24	37.50%	20.63												
Professional Engineer III	\$50.00																		
Professional Engineer II	\$40.00				40	62.50%	25.00												
Professional Engineer I	\$38.50	12	75.00%	28.88															
Staff Engineer I	\$30.00																		
Engineering Technician V	\$38.00																		
Engineering Technician IV	\$32.00																		
Engineering Technician III	\$26.00																		
Environmental Director	\$45.00	4	25.00%	11.25															
Environmental Specialist II	\$30.00																		
Environmental Specialist I	\$25.50																		
Professional Surveyor I	\$43.00																		
Surveyor IV	\$30.00																		
Surveyor III	\$27.25																		
Surveyor II	\$20.00																		
Administrative Staff III	\$25.00																		
Structural Engineer II	\$56.00																		
Engineering Intern II	\$14.00																		
Engineering Intern I	\$12.00																		
TOTALS		16	100%	\$40.13	64	100%	\$45.63	0	0%	\$0.00	88	100%	\$39.50	88	100%	\$40.68	44	100%	\$34.73



Village of Bensenville

Redmond Reservoir Expansion



RESOLUTION NO. _____

AUTHORIZING THE EXECUTION OF A DESIGN ENGINEERING SERVICES AGREEMENT WITH ENGINEERING RESOURCE ASSOCIATES FOR THE REDMOND RESERVOIR EXPANSION PROJECT IN THE NOT-TO-EXCEED AMOUNT OF \$77,895.66

WHEREAS the Village has experienced frequent and chronic flooding upstream and downstream of Redmond Reservoir, and

WHEREAS the recently completed Redmond Reservoir H&H analysis has recommended several improvements to help alleviate flooding; and

WHEREAS expansion of Redmond Reservoir is one of those key improvements; and

WHEREAS the staff has worked diligently with DuPage County staff to secure Community Development Block Grant (CDBG) –Disaster Recovery funds in the amount of \$2,750,000.00; and

WHEREAS the staff solicited proposal for design engineering services from Engineering Resource Associates (ERA) for this project; and

WHEREAS ERA has performed the Redmond H&H analysis along with other studies within the project vicinity; and

WHEREAS ERA performed the design engineering services for the recently completed George St Culvert Replacement Project; and

WHEREAS after negotiations the total design engineering cost proposal received is in the not-to-exceed amount of \$77,895.66; and

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

SECTION ONE: The recitals set forth above are incorporated herein and made a part hereof.

SECTION TWO: The Village President and Board of Trustees authorizes and approves the attached Resolution authorizing an engineering services agreement with Engineering Resource Associates for the Redmond Reservoir Expansion Project in the not to exceed amount of \$77,895.66.

SECTION THREE: The Village Manger is hereby authorized and directed to execute on behalf of the Village of Bensenville, and the Deputy Clerk is hereby authorized to attest thereto, the necessary paperwork.

SECTION FOUR: This Resolution shall take effect immediately upon its passage and approval as provided by law.

APPROVED:

Frank DeSimone, Village President

ATTEST:

Nancy Quinn, Village Clerk

AYES: _____

NAYS: _____

ABSENT: _____

TYPE:Resolution**SUBMITTED BY:**Joe Caracci**DEPARTMENT:**Public Works**DATE:**May 15, 2017**DESCRIPTION:**

Consideration of a Resolution Authorizing a Design Engineering Services Agreement with Engineering Resource Associates for the George St Bypass Storm Sewer Project (CDBG) in the Not-to-Exceed Amount of \$64,585.26

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

- | | | | |
|-------------------------------------|---|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <i>Financially Sound Village</i> | <input checked="" type="checkbox"/> | <i>Enrich the lives of Residents</i> |
| <input checked="" type="checkbox"/> | <i>Quality Customer Oriented Services</i> | | <i>Major Business/Corporate Center</i> |
| <input checked="" type="checkbox"/> | <i>Safe and Beautiful Village</i> | | <i>Vibrant Major Corridors</i> |

COMMITTEE ACTION:

I&E

DATE:

May 15, 2017

BACKGROUND:

The Village of Bensenville has experienced frequent and severe flooding upstream and downstream of Redmond Reservoir. In 2015, the Village completed the Redmond Reservoir H&H study that identifies several improvements that will help alleviate some of the flooding concerns. Included in these recommendations is a bypass storm sewer along George St directly to Redmond Reservoir. In 2017, the Village applied for a CDBG-DR funding for \$1,906,947.00 through DuPage County to install this storm sewer. DuPage County is recommending \$1,671,775.00 for funding of this project, which is estimated cost of construction. The current list of recommended projects is out for public comment.

KEY ISSUES:

The CDBG-DR grant has a sunset date of September 2019. The County is requesting the funds to be expended by June 30, 2019. The project will be under construction in spring of 2018 to allow enough time to complete the project.

Engineering Resource Associates (ERA) has performed the H&H analysis on the Redmond Reservoir. They also performed the design of the recently completed George St Culvert Replacement Project (CDBG). ERA is also assisting the Village to rectify DuPage County Stormwater violations at the George St compensatory storage basin and downstream of the culvert along Addison Creek Tributary 3. They have the modeling and all the backup information surrounding the Redmond reservoir. The Village staff feels very confident of retaining them to perform the design engineering of the George St Bypass Storm Sewer Project due to their excellent professional skills, knowledge, and familiarity of the project area. The project team of ERA and Village staff has worked well together in the past and staff recommends continuing with this team for the upcoming project. The proposed assignment scope includes topographic survey, preparing plans and bid specifications, permitting, bidding assistance, and geotechnical investigation of existing conditions. ERA's original proposed work effort and fee total was in the amount of \$66,168.00. After successful negotiations, ERA reduced its proposed design work effort and fee totals to \$64,585.26. This results in savings of \$1,582.74. This not-to-exceed fee equates to 3.9% of the Engineer's estimated cost \$1,671,775.00 for the project. Design engineering costs typically fall in the 5-8% range for similar projects.

ALTERNATIVES:

Discretion of the Committee.

RECOMMENDATION:

Staff recommends approval of the Resolution authorizing an Engineering Service Agreement with Engineering Resource Associates.

BUDGET IMPACT:

This is an unbudgeted project. In FY2017, \$143,500.00 is budgeted for the Redmond Expansion Project

design, which after negotiations has resulted in savings of \$65,604.74. The savings can be used for design of this project.

ACTION REQUIRED:

Approval of a Resolution authorizing a Design Engineering Services Agreement with Engineering Resource Associates for the George St Bypass Storm Sewer Project (CDBG) in the not-to-exceed amount of \$64,585.26.

ATTACHMENTS:

Description	Upload Date	Type
Original Proposal	5/5/2017	Backup Material
Revised Proposal	5/5/2017	Backup Material
Location Map	5/5/2017	Backup Material
Resolution	5/5/2017	Resolution Letter



Scope of Work

May 1, 2017

**SUBJECT: Village of Bensenville:
George Street Bypass Sewer**

ERA will provide engineering services in accordance with the following work plan.

1. **Meetings and Coordination** – We will work closely with staff and other stakeholders to maintain communication throughout the duration of the project including obtaining information, providing progress updates and discussing relevant issues. ERA will provide coordination with key stakeholders such as reviewing agencies and other parties having an interest in the project. This task includes preparation of meeting agendas and preparation of minutes following the meeting. The following meetings are anticipated.
 - a. **Coordination Meeting** – ERA will schedule and attend a coordination meeting with Village staff to discuss the design project. It is anticipated that one coordination meeting will occur following the Village's 65% review and 95% review.
 - b. **Public Meeting** – ERA will attend and present the storm sewer design at a public meeting. The purpose of the meeting is to provide a forum for impacted residents to ask questions and present concerns relating to the project prior to construction.
2. **Data Acquisition** – We will acquire relevant background data from various sources including but not limited to the following items:
 - 1" = 100' aerial photography
 - 1" = 100' topographic maps from the late 1990's
 - Utility maps for water, sewer, street lighting and traffic signals
 - Village standard contract documents
 - Village design details
 - George Street engineering plans
 - Televised sewer runs
 - Relevant GIS files
 - Other relevant background data as available
3. **Topographic Survey** – We will perform a topographic survey using in-house personnel and equipment. It is anticipated that the survey will include a complete ROW topo from the newly constructed George Street culvert as the western limits to the outlet of Redmond Reservoir under George Street as the eastern limits, approximately 2,200-feet. Relevant surface features will be surveyed horizontally and vertically. This includes above ground observed public and private utilities, trees of six-inch diameter or greater, fences, established landscaping limits, etc. Public utility structures will also be opened and pipe sizes, invert elevations, directions, materials, etc. will be measured from the surface. JULIE marking, and found property corners will also be referenced.

4. **Utility Coordination** – ERA will perform a design JULIE to acquire contacts from utility companies (telephone, gas, electric, cable). ERA will coordinate with the contacts to verify utility locations and depths. If sewer routings will disturb utilities ERA will coordinate with the utility companies to determine their scope of work and preliminary construction schedule to relocate their facilities.
5. **Base Plans** – Data from the data acquisition, topographic survey, and utility coordination tasks will be downloaded and compiled into our AutoCAD based system to produce base plans of existing conditions. Profiles along anticipated project alignments will also be produced. Base plan and profile sheets will be plotted (1 inch equals 20 feet) and provided to the Village and utility companies for review and verification of facilities.
6. **Geotechnical Analysis** – It is anticipated that four soil borings at a depth of 15' will be performed throughout the project area. Boring locations are planned to be within the road rights-of-way at the proposed sewer locations. Soil sampling will also be performed in accordance with Clean Construction or Demolition Debris (CCDD) requirements as outlined under Illinois Environmental Protection Agency (IEPA) regulations. This task is included to prepare the PE certification needed for CCDD under the IEPA regulations using the LPC-662 Form and/or the LPC-663 Form, as appropriate for each specific project location.
7. **Wetland Delineation** – ERA will delineate wetlands downstream of the newly constructed George Street culvert. This will include the area within the downstream apartment complex and the through the channel to Redmond Reservoir an approximate distance of 1,800-feet. The purpose of the delineation will be to show that the indirect impacts of installing the bypass sewer will not adversely impact the downstream wetlands.
8. **Hydrologic and Hydraulic Analysis** – The required hydrologic/hydraulic analysis for this project and the Redmond Reservoir expansion project will be completed under the Redmond Reservoir Expansion contract. No modeling effort has been included in this proposal.
9. **65% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (65%) for the storm sewer improvements. It is anticipated that plans will include the following sheets:
 - a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Plan and Profile Sheets
 - g. Utility Plans
 - h. Stormwater Pollution Prevention Plans
 - i. Restoration Plans
 - j. Tree Removal and Preservation Plans
 - k. Construction Details
 - l. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 95% plans.

10. **Permitting** – It is anticipated that permitting for both the George Street Bypass and Redmond Reservoir Expansion will be performed under one permit. The work required to obtain permits for both projects has been included as part of the Redmond Reservoir Expansion proposal. No permitting work has been included in this proposal.
11. **Structural Design** – ERA will perform a structural design for the storm sewer connection to the existing George Street box culvert with a control weir and a storm sewer connection to the existing western spillway of the Redmond Reservoir. It is anticipated that both connections will include a General Plan & Elevation drawing and Detail drawings.
12. **95% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (95%) for the storm sewer improvements. It is anticipated that plans will include the following sheets:
 - a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Plan and Profile Sheets
 - g. Utility Plans
 - h. Stormwater Pollution Prevention Plans
 - i. Restoration Plans
 - j. Tree Removal and Preservation Plans
 - k. Construction Details
 - l. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 100% plans.

13. **QA/QC Submittal** – ERA will submit to the Village final engineering plans, specs, and estimates for the storm sewer improvements for final QA/QC review. ERA will also perform a final internal QA/QC review prior to issuing the 100% PS&E.
14. **100% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (100%) for the storm sewer improvements. It is anticipated that plans will include the following sheets:
 - a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks



ENGINEERING
RESOURCE ASSOCIATES

Scope of Work

- e. Traffic Control Plans and Details
- f. Plan and Profile Sheets
- g. Utility Plans
- h. Stormwater Pollution Prevention Plans
- i. Restoration Plans
- j. Tree Removal and Preservation Plans
- k. Construction Details
- l. Cost Estimate

This task includes the preparation of specifications and a final engineer's opinion of probable construction cost.

15. **Bidding Assistance** – ERA will provide bidding assistance for the project. This work will include answering bidder questions, attendance at a pre-bid meeting, preparation of addenda as required, tabulation of bids, reference checks and recommendations for award of the construction contract.



Illinois Department of Transportation

Average Hourly Project Rates

Route George Street Bypass

Section _____

County DuPage

Job No. _____

PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/03/17

Sheet 1 OF 1

Payroll Classification	Avg Hourly Rates	Total Project Rates			Meetings and Coordination			Data Acquisition			Topographic Survey			Utility Coordination			Base Plans		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	\$70.00	0																	
Professional Engineer V	\$65.80	0																	
Professional Engineer IV	\$55.00	47	8.38%	4.61	8	66.67%	36.67	1	20.00%	11.00	2	5.26%	2.89	2	20.00%	11.00	2	7.69%	4.23
Professional Engineer III	\$50.00	72	12.83%	6.42	4	33.33%	16.67												
Professional Engineer II	\$40.00	0																	
Professional Engineer I	\$38.50	32	5.70%	2.20															
Staff Engineer I	\$30.00	180	32.09%	9.63				4	80.00%	24.00					8	80.00%	24.00		
Engineering Technician V	\$38.00	154	27.45%	10.43															
Engineering Technician IV	\$32.00	0																	
Engineering Technician III	\$26.00	0																	
Environmental Director	\$45.00	16	2.85%	1.28															
Environmental Specialist II	\$30.00	0																	
Environmental Specialist I	\$25.50	0																	
Professional Surveyor I	\$43.00	4	0.71%	0.31															
Surveyor IV	\$30.00	0																	
Surveyor III	\$27.25	32	5.70%	1.55															
Surveyor II	\$20.00	0																	
Administrative Staff III	\$25.00	0																	
Structural Engineer II	\$66.00	24	4.28%	2.40															
Engineering Intern II	\$14.00	0																	
Engineering Intern I	\$12.00	0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		561	100%	\$38.82	12	100%	\$53.33	5	100%	\$35.00	38	100%	\$30.37	10	100%	\$35.00	26	100%	\$39.31



Average Hourly Project Rates

Route George Street Bypass
 Section _____
 County DuPage
 Job No. _____
 PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/03/17

Sheet 2 OF 1

Payroll Classification	Avg Hourly Rates	Geotechnical Analysis			Wetland Delineation			Hydrologic/Hydraulic Analysis			65% PS&E			Permitting			Structural Design				
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg		
Professional Engineer VI	\$70.00																				
Professional Engineer V	\$65.80																				
Professional Engineer IV	\$55.00																				
Professional Engineer III	\$50.00				2	4.00%	2.20														
Professional Engineer II	\$40.00																				
Professional Engineer I	\$38.50																				
Staff Engineer I	\$30.00				32	64.00%	24.64														
Engineering Technician V	\$38.00																				
Engineering Technician IV	\$32.00																				
Engineering Technician III	\$26.00																				
Environmental Director	\$45.00																				
Environmental Specialist II	\$30.00				16	32.00%	14.40														
Environmental Specialist I	\$25.50																				
Professional Surveyor I	\$43.00																				
Surveyor IV	\$30.00																				
Surveyor III	\$27.25																				
Surveyor II	\$20.00																				
Administrative Staff III	\$25.00																				
Structural Engineer II	\$56.00																				
Engineering Intern II	\$14.00																				
Engineering Intern I	\$12.00																				
TOTALS		0	0%	\$0.00	50	100%	\$41.24	0	0%	\$0.00	108	100%	\$38.52	0	0%	\$0.00	98	100%	\$38.84		

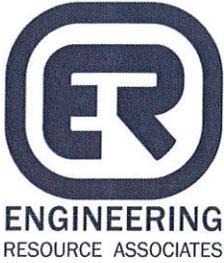


Average Hourly Project Rates

Route George Street Bypass
 Section _____
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 Job No. _____
 PTB/Item _____

Consultant Engineering Resource Associates, Inc. Date 05/03/17
 Sheet 3 OF 1

Payroll Classification	Avg Hourly Rates	95% PS&E			QA/QC Submittal			100% PS&E			Bidding Assistance			Direct Costs					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Professional Engineer VI	\$70.00																		
Professional Engineer V	\$65.80																		
Professional Engineer IV	\$55.00	8	7.41%	4.07	8	12.50%	6.88	2	9.09%	5.00	2	10.00%	5.50						
Professional Engineer III	\$50.00	20	18.52%	9.26	16	25.00%	12.50	4	18.18%	9.09	8	40.00%	20.00						
Professional Engineer II	\$40.00																		
Professional Engineer I	\$38.50																		
Staff Engineer I	\$30.00	40	37.04%	11.11	24	37.50%	11.25	8	36.36%	10.91	8	40.00%	12.00						
Engineering Technician V	\$38.00	40	37.04%	14.07	16	25.00%	9.50	8	36.36%	13.82	2	10.00%	3.80						
Engineering Technician IV	\$32.00																		
Engineering Technician III	\$26.00																		
Environmental Director	\$45.00																		
Environmental Specialist II	\$30.00																		
Environmental Specialist I	\$25.50																		
Professional Surveyor I	\$43.00																		
Surveyor IV	\$30.00																		
Surveyor III	\$27.25																		
Surveyor II	\$20.00																		
Administrative Staff III	\$25.00																		
Structural Engineer II	\$56.00																		
Engineering Intern II	\$14.00																		
Engineering Intern I	\$12.00																		
TOTALS		108	100%	\$38.52	64	100%	\$40.13	22	100%	\$38.82	20	100%	\$41.30	0	0%	\$0.00	0	0%	\$0.00



Scope of Work

May 4, 2017

**SUBJECT: Village of Bensenville:
George Street Bypass Sewer**

ERA will provide engineering services in accordance with the following work plan.

1. **Meetings and Coordination** – We will work closely with staff and other stakeholders to maintain communication throughout the duration of the project including obtaining information, providing progress updates and discussing relevant issues. ERA will provide coordination with key stakeholders such as reviewing agencies and other parties having an interest in the project. This task includes preparation of meeting agendas and preparation of minutes following the meeting. The following meetings are anticipated.
 - a. **Kickoff Meeting** – ERA will attend a kickoff meeting with the Village and DuPage County.
 - b. **Coordination Meeting** – ERA will schedule and attend a coordination meeting with Village staff to discuss the design project. It is anticipated that one coordination meeting will occur following the Village's 65% review and 95% review.
 - c. **Public Meeting** – ERA will attend and present the storm sewer design at a public meeting. The purpose of the meeting is to provide a forum for impacted residents to ask questions and present concerns relating to the project prior to construction.
2. **Data Acquisition** – We will acquire relevant background data from various sources including but not limited to the following items:
 - 1" = 100' aerial photography
 - 1" = 100' topographic maps from the late 1990's
 - Utility maps for water, sewer, street lighting and traffic signals
 - Village standard contract documents
 - Village design details
 - George Street engineering plans
 - Televised sewer runs
 - Relevant GIS files
 - Other relevant background data as available
3. **Topographic Survey** – We will perform a topographic survey using in-house personnel and equipment. It is anticipated that the survey will include a complete ROW topo from the newly constructed George Street culvert as the western limits to 300-feet west of the outlet of Redmond Reservoir under George Street as the eastern limits, approximately 1,900-feet. The survey may include additional areas in the adjacent park to determine the best route to bring the storm sewer into the Redmond Reservoir. Relevant surface features will be surveyed horizontally and vertically. This includes above ground observed public and private utilities, trees of six-inch diameter or greater, fences, established landscaping limits, etc. Public

utility structures will also be opened and pipe sizes, invert elevations, directions, materials, etc. will be measured from the surface. JULIE marking, and found property corners will also be referenced.

4. **Utility & County Coordination** – ERA will perform a design JULIE to acquire contacts from utility companies (telephone, gas, electric, cable). ERA will coordinate with the contacts to verify utility locations and depths. If sewer routings will disturb utilities ERA will coordinate with the utility companies to determine their scope of work and preliminary construction schedule to relocate their facilities. This task also includes coordination with DuPage County to approved bid specs for CDBG funds. Stormwater coordination has been included in the Permitting Task of the Redmond Reservoir Expansion.
5. **Base Plans** – Data from the data acquisition, topographic survey, and utility coordination tasks will be downloaded and compiled into our AutoCAD based system to produce base plans of existing conditions. Profiles along anticipated project alignments will also be produced. Base plan and profile sheets will be plotted (1 inch equals 20 feet) and provided to the Village and utility companies for review and verification of facilities.
6. **Geotechnical Analysis** – It is anticipated that four soil borings at a depth of 15' will be performed throughout the project area. Boring locations are planned to be within the road rights-of-way at the proposed sewer locations. Soil sampling will also be performed in accordance with Clean Construction or Demolition Debris (CCDD) requirements as outlined under Illinois Environmental Protection Agency (IEPA) regulations. This task is included to prepare the PE certification needed for CCDD under the IEPA regulations using the LPC-662 Form and/or the LPC-663 Form, as appropriate for each specific project location.
7. **Wetland Delineation** – ERA will delineate wetlands downstream of the newly constructed George Street culvert. This will include the area within the downstream apartment complex and the through the channel to Redmond Reservoir an approximate distance of 1,800-feet. The purpose of the delineation will be to show that the indirect impacts of installing the bypass sewer will not adversely impact the downstream wetlands.
8. **Hydrologic and Hydraulic Analysis** – The required hydrologic/hydraulic analysis for this project and the Redmond Reservoir expansion project will be completed under the Redmond Reservoir Expansion contract. No modeling effort has been included in this proposal.
9. **65% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (65%) for the storm sewer improvements. It is anticipated that plans will include the following sheets:
 - a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Plan and Profile Sheets
 - g. Utility Plans
 - h. Stormwater Pollution Prevention Plans

- i. Restoration Plans
- j. Tree Removal and Preservation Plans
- k. Construction Details
- l. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 95% plans. Assuming contract approval in June, we anticipate completing this task by August 1, 2017.

10. **Permitting** – It is anticipated that permitting for both the George Street Bypass and Redmond Reservoir Expansion will be performed under one permit. The work required to obtain permits for both projects has been included as part of the Redmond Reservoir Expansion proposal. No permitting work has been included in this proposal.
11. **Structural Design** – ERA will perform a structural design for the storm sewer connection to the existing George Street box culvert with a control weir and a storm sewer connection to the existing western spillway of the Redmond Reservoir. It is anticipated that both connections will include a General Plan & Elevation drawing and Detail drawings.
12. **95% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (95%) for the storm sewer improvements. It is anticipated that plans will include the following sheets:
- a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Plan and Profile Sheets
 - g. Utility Plans
 - h. Stormwater Pollution Prevention Plans
 - i. Restoration Plans
 - j. Tree Removal and Preservation Plans
 - k. Construction Details
 - l. Cost Estimate

This task includes the preparation of specifications and an engineer's opinion of probable construction cost. In conjunction with the submittal of the plan set ERA will perform value engineering to identify cost saving measures prior to developing the 100% plans. Assuming contract approval in June, we anticipate completing this task by September 8, 2017.

13. **QA/QC Submittal** – ERA will submit to the Village final engineering plans, specs, and estimates for the storm sewer improvements for final QA/QC review. ERA will also perform a final internal QA/QC review prior to issuing the 100% PS&E. Assuming contract approval in June, we anticipate completing this task by October 1, 2017.



ENGINEERING
RESOURCE ASSOCIATES

Scope of Work

14. **100% Plans, Specifications and Estimates (PS&E)** – This task includes the preparation of PS&E (100%) for the storm sewer improvements. It is anticipated that plans will include the following sheets:
- a. Cover Sheet and Location Map
 - b. General Notes and Typical Sections
 - c. Summary of Quantities and Schedule of Quantities
 - d. Alignment, Ties and Benchmarks
 - e. Traffic Control Plans and Details
 - f. Plan and Profile Sheets
 - g. Utility Plans
 - h. Stormwater Pollution Prevention Plans
 - i. Restoration Plans
 - j. Tree Removal and Preservation Plans
 - k. Construction Details
 - l. Cost Estimate

This task includes the preparation of specifications and a final engineer's opinion of probable construction cost. Assuming contract approval in June, we anticipate completing this task by October 18, 2017.

15. **Bidding Assistance** – It is anticipated that the project will be advertised for bid on October 20, 2017. ERA will provide bidding assistance for the project. This work will include answering bidder questions, attendance at a pre-bid meeting, preparation of addenda as required, tabulation of bids, reference checks and recommendations for award of the construction contract.



Average Hourly Project Rates

Route George Street Bypass
 Section _____
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 Job No. _____
 PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/04/17

Sheet 1 OF 1

Payroll Classification	Avg Hourly Rates	Total Project Rates			Meetings and Coordination			Data Acquisition			Topographic Survey			Utility Coordination			Base Plans		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	\$70.00	0																	
Professional Engineer V	\$65.80	0																	
Professional Engineer IV	\$55.00	49	8.96%	4.93	8	66.67%	36.67	1	20.00%	11.00	2	5.26%	2.89	4	25.00%	13.75	2	7.69%	4.23
Professional Engineer III	\$50.00	68	12.43%	6.22	4	33.33%	16.67												
Professional Engineer II	\$40.00	0																	
Professional Engineer I	\$38.50	32	5.85%	2.25															
Staff Engineer I	\$30.00	184	33.64%	10.09				4	80.00%	24.00									
Engineering Technician V	\$38.00	138	25.23%	9.59															
Engineering Technician IV	\$32.00	0																	
Engineering Technician III	\$26.00	0																	
Environmental Director	\$45.00	16	2.93%	1.32															
Environmental Specialist II	\$30.00	0																	
Environmental Specialist I	\$25.50	0																	
Professional Surveyor I	\$43.00	4	0.73%	0.31							4	10.53%	4.53						
Surveyor IV	\$30.00	0																	
Surveyor III	\$27.25	32	5.85%	1.59							32	84.21%	22.95						
Surveyor II	\$20.00	0																	
Administrative Staff III	\$25.00	0																	
Structural Engineer II	\$56.00	24	4.39%	2.46															
Engineering Intern II	\$14.00	0																	
Engineering Intern I	\$12.00	0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		547	100%	\$38.76	12	100%	\$53.33	5	100%	\$35.00	38	100%	\$30.37	16	100%	\$36.25	26	100%	\$39.31



Average Hourly Project Rates

Route George Street Bypass
 Section _____
 County DuPage
 Job No. _____
 PTB/Item _____

Consultant Engineering Resource Associates, Inc.

Date 05/04/17

Sheet 3 OF 1

Payroll Classification	Avg Hourly Rates	95% PS&E			QA/QC Submittal			100% PS&E			Bidding Assistance			Direct Costs		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Professional Engineer VI	\$70.00															
Professional Engineer V	\$65.80															
Professional Engineer IV	\$55.00	8	9.09%	5.00	8	12.50%	6.88	2	9.09%	5.00	2	10.00%	5.50			
Professional Engineer III	\$50.00	16	18.18%	9.09	16	25.00%	12.50	4	18.18%	9.09	8	40.00%	20.00			
Professional Engineer II	\$40.00															
Professional Engineer I	\$38.50															
Staff Engineer I	\$30.00	40	45.45%	13.64	24	37.50%	11.25	8	36.36%	10.91	8	40.00%	12.00			
Engineering Technician V	\$38.00	24	27.27%	10.36	16	25.00%	9.50	8	36.36%	13.82	2	10.00%	3.80			
Engineering Technician IV	\$32.00															
Engineering Technician III	\$26.00															
Environmental Director	\$45.00															
Environmental Specialist II	\$30.00															
Environmental Specialist I	\$25.50															
Professional Surveyor I	\$43.00															
Surveyor IV	\$30.00															
Surveyor III	\$27.25															
Surveyor II	\$20.00															
Administrative Staff III	\$25.00															
Structural Engineer II	\$56.00															
Engineering Intern II	\$14.00															
Engineering Intern I	\$12.00															
TOTALS		88	100%	\$38.09	64	100%	\$40.13	22	100%	\$38.82	20	100%	\$41.30	0	0%	\$0.00



Village of Bensenville

George St. Bypass Storm Sewer



RESOLUTION NO. _____

AUTHORIZING THE EXECUTION OF A DESIGN ENGINEERING SERVICES AGREEMENT WITH ENGINEERING RESOURCE ASSOCIATES FOR THE GEORGE ST BYPASS STORM SEWER PROJECT IN THE NOT-TO-EXCEED AMOUNT OF \$64,585.26

WHEREAS the Village has experienced frequent and chronic flooding upstream and downstream of Redmond Reservoir, and

WHEREAS the recently completed Redmond Reservoir H&H analysis has recommended several improvements to help alleviate flooding; and

WHEREAS installation of George St Bypass Storm sewer is one of those improvements; and

WHEREAS the staff has applied for and is recommended for receiving Community Development Block Grant (CDBG) funds in the amount of \$1,671,775.00; and

WHEREAS the staff solicited proposal for design engineering services from Engineering Resource Associates (ERA) for this project; and

WHEREAS ERA has performed the Redmond H&H analysis along with other studies within the project vicinity; and

WHEREAS ERA performed the design engineering services for the recently completed George St Culvert Replacement Project; and

WHEREAS after negotiations the total design engineering cost proposal received is in the not-to-exceed amount of \$64,585.26; and

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

SECTION ONE: The recitals set forth above are incorporated herein and made a part hereof.

SECTION TWO: The Village President and Board of Trustees authorizes and approves the attached Resolution authorizing an engineering services agreement with Engineering Resource Associates for the George St Bypass Storm Sewer Project in the not to exceed amount of \$64,585.26.

SECTION THREE: The Village Manger is hereby authorized and directed to execute on behalf of the Village of Bensenville, and the Deputy Clerk is hereby authorized to attest thereto, the necessary paperwork.

SECTION FOUR: This Resolution shall take effect immediately upon its passage and approval as provided by law.

APPROVED:

Frank DeSimone, Village President

ATTEST:

Nancy Quinn, Village Clerk

AYES: _____

NAYS: _____

ABSENT: _____

TYPE: Informational **SUBMITTED BY:** Joe Caracci **DEPARTMENT:** Public Works **DATE:** May 15, 2017

DESCRIPTION:

Discussion of Project Status for the Downtown Streetscape - Phase I (North Side)

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Financially Sound Village | <input checked="" type="checkbox"/> Enrich the lives of Residents |
| <input type="checkbox"/> Quality Customer Oriented Services | <input checked="" type="checkbox"/> Major Business/Corporate Center |
| <input checked="" type="checkbox"/> Safe and Beautiful Village | <input checked="" type="checkbox"/> Vibrant Major Corridors |

COMMITTEE ACTION:

I&E

DATE:

May 15, 2017

BACKGROUND:

Based on the Pavement Condition Index (PCI) report conducted in 2014, Addison Street through downtown Bensenville has been identified as one of the streets needing to be reconstructed. The PCI rating for the segment between Main Street and Roosevelt Road is 28. Also, one of the strategic goals identified by the Village Board was to improve the aesthetics of downtown Bensenville. Providing an updated and inviting streetscape generates economic development in downtown communities. As such, the need for a new roadway kick-started the desire to implement a new downtown streetscape.

Phase I of the Project consists of improvements north of the railroad tracks. The scope includes watermain installation along Addison Street (Roosevelt to Main), elimination of a dual watermain along Roosevelt, storm sewer installation along Center Street (as identified in our Storm Sewer Master Plan) as well as roadway and aesthetic improvements along York, Center, Addison, Roosevelt and Main. Some of the aesthetic features include stamped concrete sidewalk, built-in planter boxes, benches, trees, stamped concrete crosswalks, and landscape improvements.

Our budget for this project in 2017 included \$1,329,000 for construction (\$1,189,000 CIP + \$140,000 Water/Sewer) and \$132,900 for construction engineering (\$118,900 CIP + \$14,000 Water/Sewer). This totals \$1,461,900 for the project in 2017.

Since the budget was approved, the scope of the project expanded to included items like storm sewer work along Center, watermain work along Roosevelt, raised planter boxes, stamped sidewalk along the Metra platform, enhanced stamped concrete crosswalks, tree removal, additional curb delineators at parallel parking stalls, and an allocation for non-special waste that was identified on the project during design.

KEY ISSUES:

The Village opened bids on May 4, 2017 for the project. Six (6) contractors submitted bids, which included a base bid and two alternates. R.W. Dunteman submitted the lowest bid. A summary of the results is included below. The Base bid includes aforementioned scope of work. Alternate-1 includes base bid work but substitutes the parallel parking spaces with permeable pavers. Alternate-2 includes all Alternate-1 work plus resurfacing of Main St within the project limits.

Contractor	Base Bid	Alternate 1	Alternate 2	Rank
R.W. Dunteman Company, Addison, IL	\$2,093,865.93	\$2,173,987.26	\$2,243,212.56	1
Copenhaver Construction, Gilberts, IL	\$2,137,944.00	\$2,192,545.00	\$2,329,852.00	2
Alliance Contractors, Woodstock, IL	\$2,505,426.30	\$2,515,780.15	\$2,606,554.65	3
Martam Construction, Elgin, IL	\$2,537,533.10	\$2,570,591.60	\$2,721,292.55	4
A-Lamp Concrete, Schaumburg, IL	\$2,539,242.50	\$2,582,332.25	\$2,676,731.90	5
Landmark Contractors,	\$2,572,462.00	\$2,616,681.52	\$2,669,212.30	6

Huntley, IL				
Engineer's Estimate	\$2,112,170.00	\$2,133,573.00	\$2,233,864.00	N/A

As mentioned above, our budget for this project in 2017 included \$1,329,000 for construction (\$1,189,000 CIP + \$140,000 Water/Sewer) and \$132,900 for construction engineering (\$118,900 CIP + \$14,000 Water/Sewer). This totals \$1,461,900 for the project in 2017.

Based on our evaluation of the bids, staff feels that Base bid and Alternate 1 is the best bid for the money. The construction cost for this option is \$2,173,988. Construction engineering for the project based on the consultant's proposal is \$160,759. This totals \$2,334,747, leaving an \$872,874 shortfall.

Staff has identified a number of projects that could help with this shortfall totaling approximately \$570,000, still leaving a \$302,847 shortfall. Most of these projects include negotiated savings, contract savings, and reimbursements. The list also includes two projects to either push or eliminate until 2018 (EOWA Construction Assistance at \$50,000 and the York/Green Gateway Sign at \$150,000).

Finance Director Thakkar has also authored a memo that identifies the possibility of using additional water/sewer Capital funds, TIF 12 funds or additional MFT funds to account for the remainder of the shortfall.

Before moving forward with a recommendation, staff felt inclined to bring this to the Village Board for input. Based on the data above, we want to gauge the Board on the following:

- Is this project a high priority for the new Village Board?
- Is the Village Board comfortable with the use of Water/Sewer, TIF 12 or additional MFT funds to support the shortfall?
- Is the Village Board comfortable eliminating the York/Green Gateway project?
- Is the Village Board willing to reduce scope on the project? If so, what items?
- Is the Village Board comfortable pushing the project until 2018, understanding that Addison Street roadway is in very poor condition?

ALTERNATIVES:

- Move forward with the project utilizing identified funding mechanism to make up budget gap
- Move forward with the project but reduce scope to a level comfortable to the Village Board
- Push the Project to 2018 and revisit the project scope and budget
- Discretion of the Committee

RECOMMENDATION:

Staff feels that the project can be incorporated with the identified savings, however, depending on the new Village Board's vision of this critical area of the Village, it would be wise and beneficial to push the project to 2018 (after we have a chance to perform our Strategic Planning sessions).

BUDGET IMPACT:

See *Key Issues* section.

ACTION REQUIRED:

Direction from the Committee.

ATTACHMENTS:

Description	Upload Date	Type
EXHIBIT - Proposed Cross Section	5/11/2017	Backup Material
EXHIBIT - Proposed Plan	5/11/2017	Backup Material
LOCATION MAP - History	5/10/2017	Backup Material
MEMO - Finance Overbudget Memo	5/10/2017	Backup Material
MEMO - PW Over Budget Memo 051417	5/10/2017	Backup Material

Agenda Item - Downtown North - Construction Award

5/10/2017

Backup Material

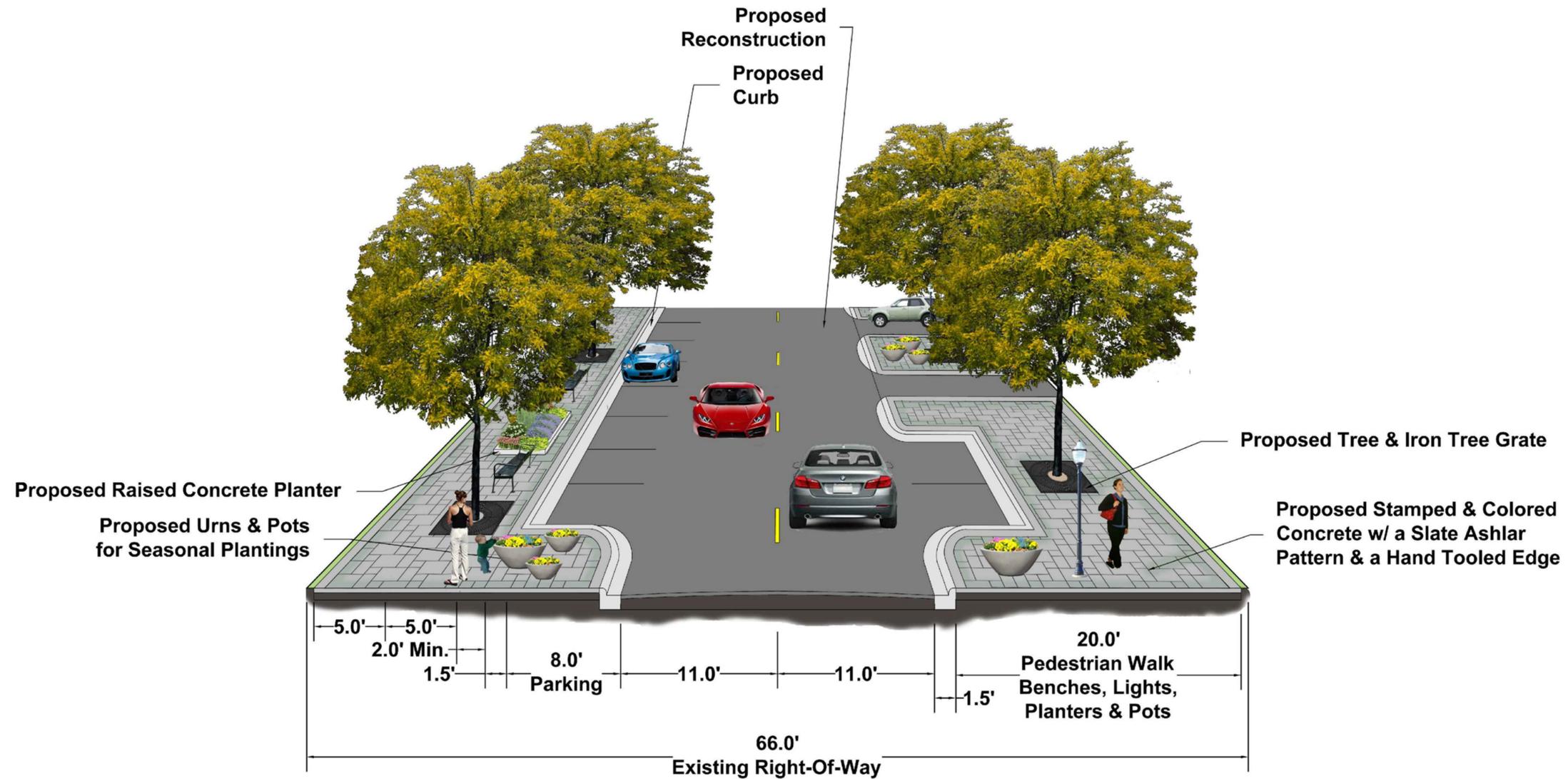
Agenda Item - Downtown North - Construction Engineering Award

5/10/2017

Backup Material

PROPOSED TYPICAL SECTION

STREETScape IMPROVEMENTS





DOWNTOWN TRANSPORTATION ENHANCEMENT AND STREETScape PROJECT 2017 CONSTRUCTION



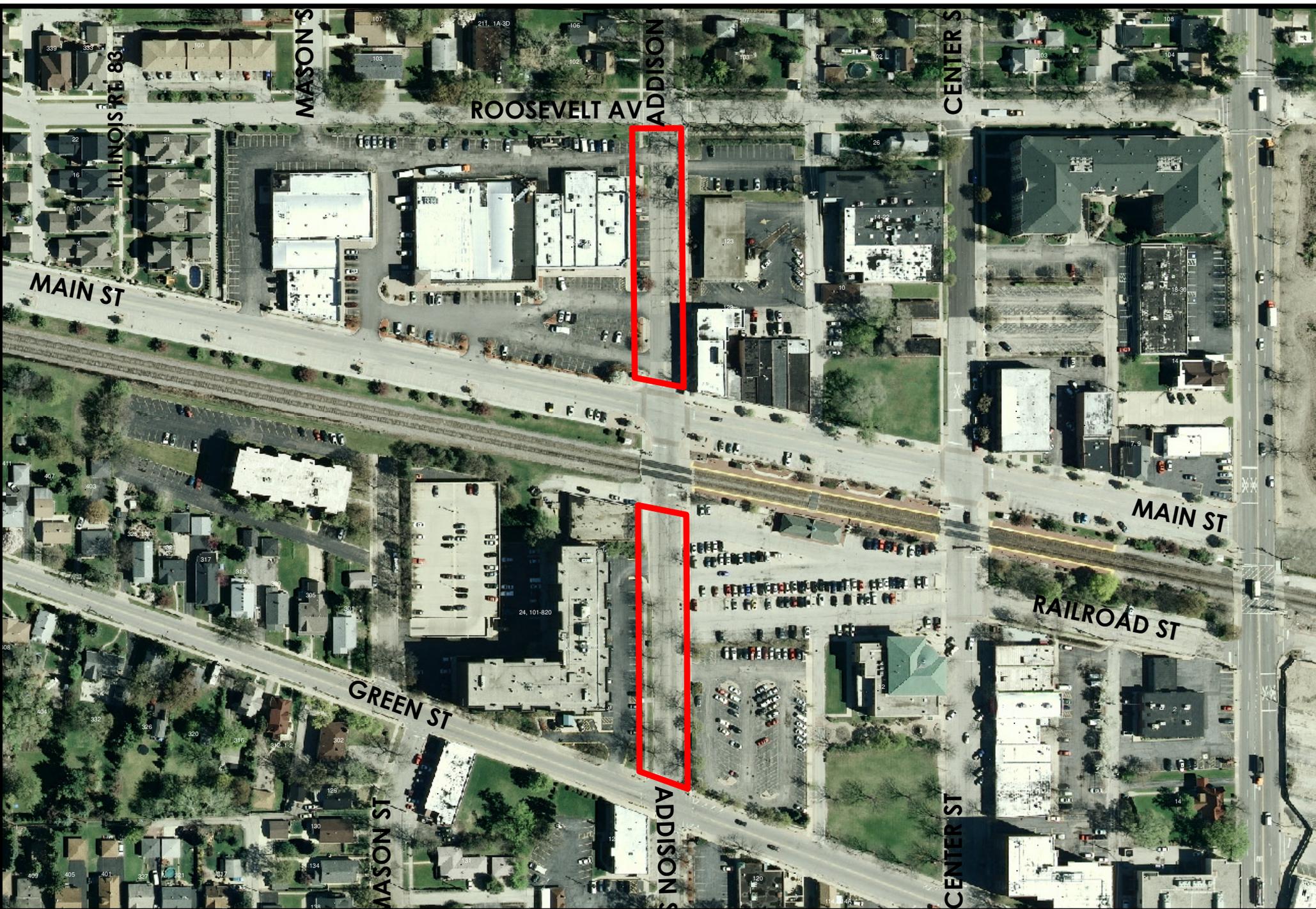
PREPARED BY:



Village of Bensenville

2016 Village Street Program- Addison St. Reconstruction

Original Location Map
2015

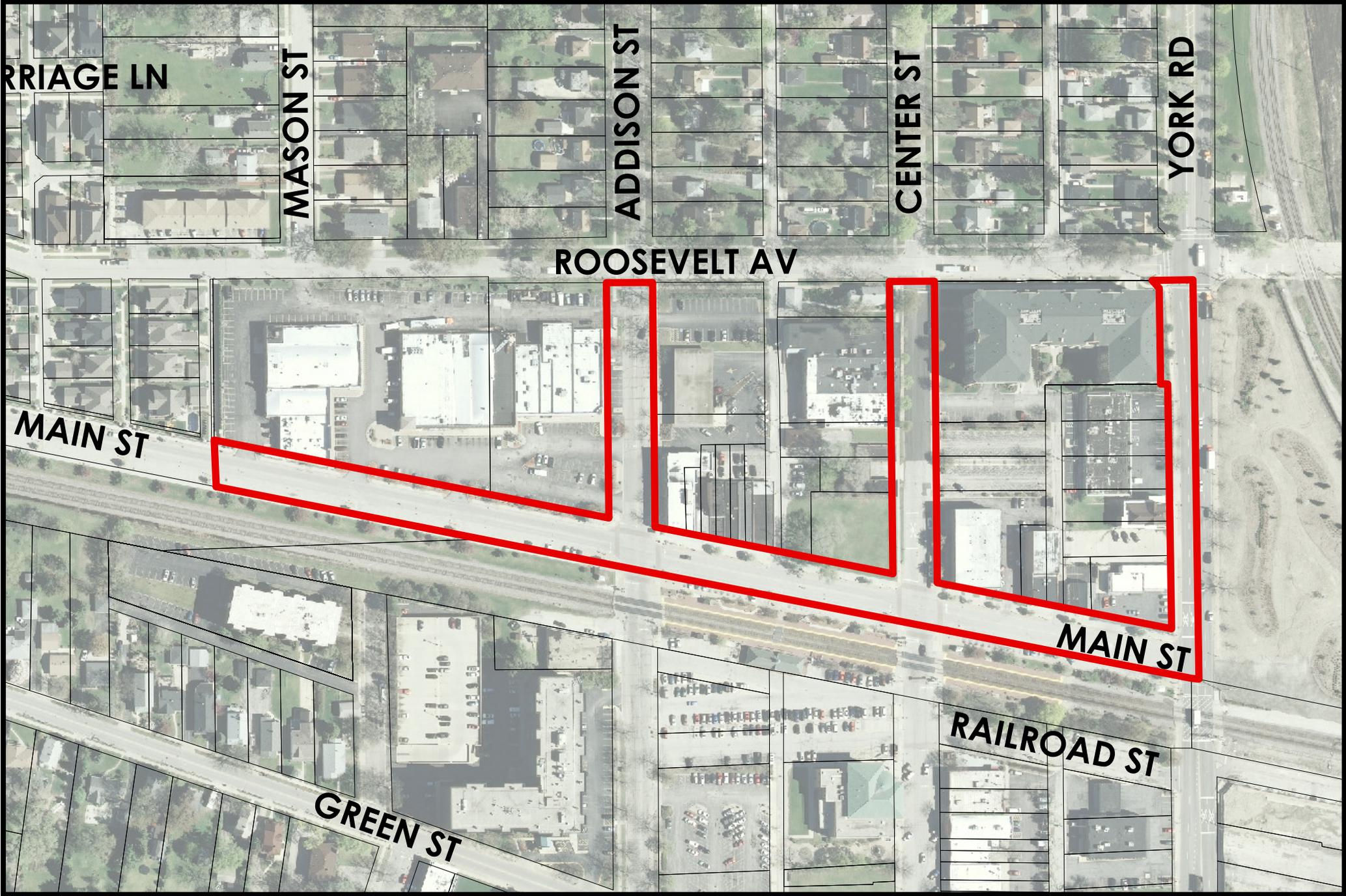




Village of Bensenville

2017 MFT Downtown Street Program

Revised Location Map
2016 (for budget)

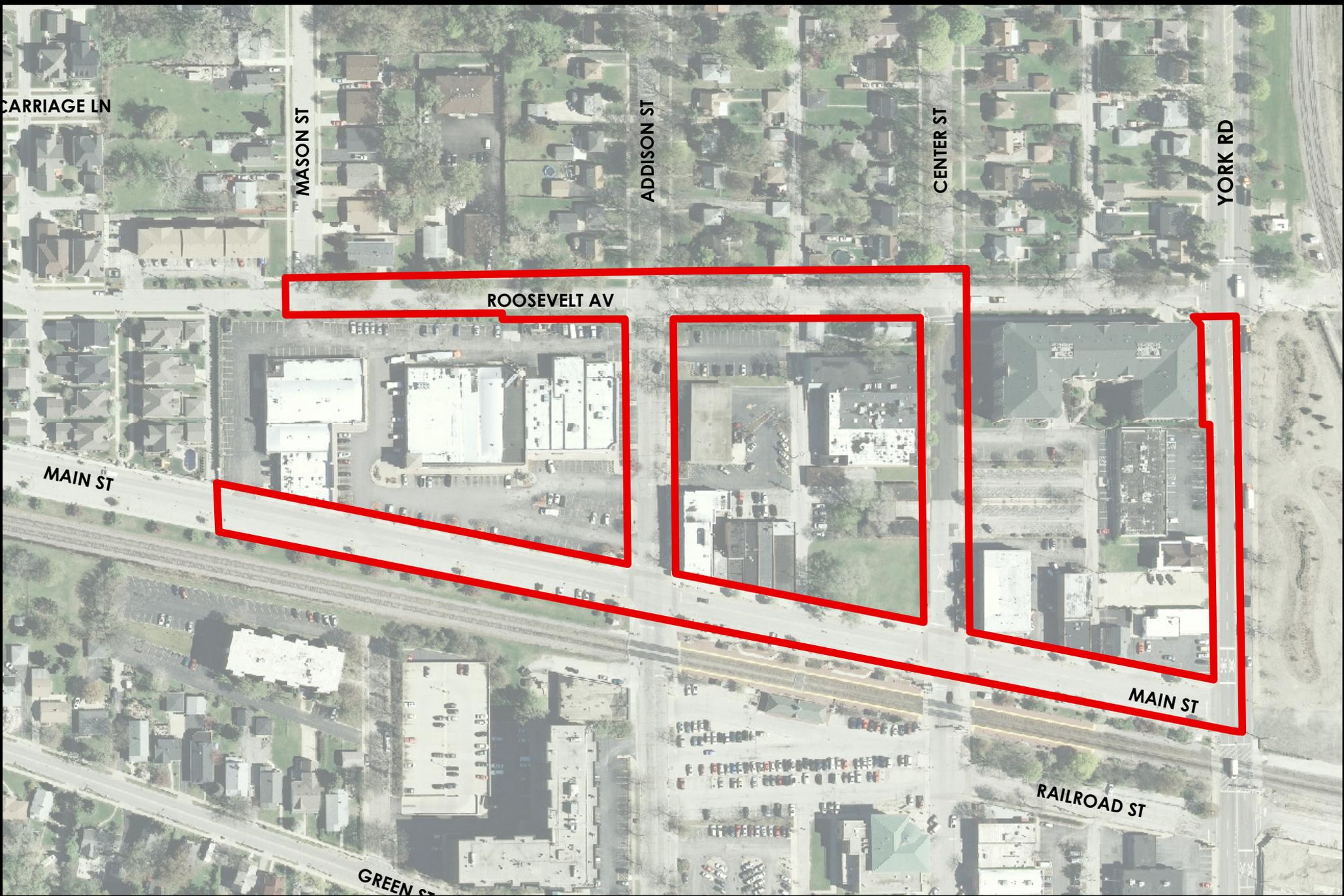




Village of Bensenville

Downtown Streetscape Phase I

Revised Location Map
2017 (As Bid)



Bensenville Memo

From: Amit Thakkar, Director of Finance
 To: Evan Summers - Village Manager, Joseph Caracci – Director of PW, Mehul Patel – Asst. Director of PW
 Date: May 9, 2017
 Subject: Downtown Streetscape Project – North

With reference to the above-mentioned subject and the Memo from Mr. Mehul Patel about the downtown streetscape project, I hereby submit as below.

Facts:

- a) During the budget sessions of the FY 2017, the project was discussed and was approved with budget amounts as listed below.

Project	Description/Component	Funding Source	F.Y. 2017 Approved Amount
Downtown Phase I Streetscape – North of Railroad Tracks	Street Construction	Motor Fuel Tax	\$ 1,189,000.00
	Construction Engineering	Motor Fuel Tax	\$ 118,900.00
	Watermain Component	Water/Sewer	\$ 154,000.00
	Storm Sewer	-	\$ -
Total			\$ 1,461,900.00

- b) Per the Memo from Mr. Mehul Patel, the scope of the project is revised multiple times and the RFP was advertised according to the revised scope. The lowest bid has come from R.W. Dunteman Company and the department of public works has recommended the Alternate 1, which has the total bid price of \$2,173,987.26. If we are to award

Description/Component	Funding Source	F.Y. 2017 Approved Amount	Revised Cost per Bid	Shortfall
Street Construction	Motor Fuel Tax	\$ 1,189,000.00	\$1,638,669.39	\$330,769.39
Construction Engineering	Motor Fuel Tax	\$ 118,900.00		
Watermain Component	Water/Sewer	\$ 154,000.00	\$ 299,368.75	\$145,368.75
Storm Sewer	-	\$ -	\$ 235,949.12	\$235,949.12
		\$ 1,461,900.00	\$2,173,987.26	\$712,087.26

- c) Per Mr. Patel’s memo, department of public works is proposing that the following projects will provide the benefit of cost savings which can be reallocated towards the downtown streetscape project. The following savings are estimated and are subject to confirmation from the Village Manager where it assumes the elimination of the projects completely.

Project	Amounts
Church Rd LAFO – Phase III Reimbursement	\$ 88,000.00
Church Rd Reconstruction – Design – Contract savings	\$ 98,000.00
IL 83 Bike path – Phase I Design – Negotiations Savings	\$ 6,000.00
Church Rd Bike path TAP – Phase II Design- Negotiations Savings	\$ 45,000.00
IL-19 Streetscape Phase II – Construction – Contract Savings*	\$ 90,000.00
IL-19 Streetscape Phase II – Construction – Speedway Reimbursement due to delay	\$ 43,000.00
EOWA Construction Assistance – Eliminate	\$ 50,000.00
York/Green Marquee Sign – Eliminate	\$ 150,000.00
Total	\$ 570,000.00

d) Alternative – 1

Description/Component	F.Y. 2017 Approved Amount	Revised Cost per Bid	Shortfall	Savings	TIF 12	Water/Sewer	Final Outcome
Street Construction	\$ 1,189,000.00	\$1,638,669.39	\$ (449,669.39)	449,669.39	-	-	(0.00)
Construction Engineering	\$ 118,900.00	\$ 138,000.00	\$ (19,100.00)	19,100.00	-	-	-
Watermain Component	\$ 140,000.00	\$ 299,368.75	\$ (159,368.75)	-	-	159,368.75	-
Watermain Component - Engineering	\$ 14,000.00	\$ 22,000.00	\$ (8,000.00)	-	-	8,000.00	-
Storm Sewer	\$ -	\$ 235,949.12	\$ (235,949.12)	101,230.61	134,718.51	-	-
	\$ 1,461,900.00	\$2,333,987.26	(\$872,087.26)	570,000.00	134,718.51	167,368.75	-

Since the proposed construction also serves the part of the TIF 12 territory, some of the storm sewer expense can become TIF eligible. With the current budget amounts in TIF 12 for the FY 2017, we can support \$134,718.51 in TIF eligible expenses out of TIF 12.

e) Alternative – 2

Description/Component	F.Y. 2017 Approved Amount	Revised Cost per Bid	Shortfall	Savings	Additional MFT Resolution	Water/Sewer
Street Construction	\$ 1,189,000.00	\$1,638,669.39	\$ (449,669.39)	449,669.39	-	-
Construction Engineering	\$ 118,900.00	\$ 138,000.00	\$ (19,100.00)	19,100.00	-	-
Watermain Component	\$ 140,000.00	\$ 299,368.75	\$ (159,368.75)	-	-	159,368.75
Watermain Component - Engineering	\$ 14,000.00	\$ 22,000.00	\$ (8,000.00)	-	-	8,000.00
Storm Sewer	\$ -	\$ 235,949.12	\$ (235,949.12)	101,230.61	134,718.51	-
	\$ 1,461,900.00	\$2,333,987.26	(\$872,087.26)	570,000.00	134,718.51	167,368.75

The alternative 2 allows us to deep into current motor fuel tax funds by \$134,718.51. The current Motor Fuel Tax fund has a balance of \$735,031.30 after considering all the resolutions done till date.

**Village of Bensenville
MFT Reconciliation**

	<u>Amount</u>	<u>Amount</u>
Ending MFT Balance - Dec-31-2015		<u>2,727,211.72</u>
Add: 2016 Revenue - MFT Allocation		<u>467,253.59</u>
		3,194,465.31
Less: R-13-2015		(639.00)
Less: 2016 Sidewalk		(50,000.00)
Less: 2016 Pavement Patching		(125,000.00)
Less: Church Road LAFO		(513,000.00)
Less: Church Road Recon		(350,000.00)
Less: Addison St Recon - SUP		(643,175.00)
Less: Addison St Recon		<u>(752,000.00)</u>
		(2,433,814.00)
2016 Ending MFT Projected		760,651.31
Jan-17 - Motor Fuel Tax Allocation	43,535.96	
Feb-17 - Motor Fuel Tax Allocation	41,385.63	
Mar-17 - Motor Fuel Tax Allocation	39,458.73	
Apr-17 - Motor Fuel Tax Allocation	-	
May-17 - Motor Fuel Tax Allocation	-	
Jun-17 - Motor Fuel Tax Allocation	-	
Jul-17 - Motor Fuel Tax Allocation	-	
Aug-17 - Motor Fuel Tax Allocation	-	
Sep-17 - Motor Fuel Tax Allocation	-	
Oct-17 - Motor Fuel Tax Allocation	-	
Nov-17 - Motor Fuel Tax Allocation	-	
Dec-17 - Motor Fuel Tax Allocation	-	
		<u>124,380.32</u>
		885,031.63
Add: 2017 MFT - Gen Maintenance		<u>(150,000.00)</u>
		<u>735,031.63</u>

Recommendations:

In the light of the above facts and scenarios, I am recommending going with alternative 1, which allows us to fund \$134,718.51 of storm sewer related project costs from TIF funds, subject to the approval from the Village Manager as well as the Village Board. Both the proposal will require an amendment to the current budget

DRAFT



Village of Bensenville Department of Public Works

717 E. Jefferson Street
Bensenville, IL 60106
Phone (630) 350-3435 Fax (630) 594-1148

Date: May 4, 2017
To: Joseph Caracci, P.E. - Director of Public Works
From: Mehul T. Patel, P.E. – Assistant Director of Public Works-Eng
Subject: **16.1.02 – Downtown Streetscape Project – North**

As you are aware, the limits as well as scope of improvements related to Downtown Streetscape projects has been revised multiple times over last few months. The subject project was advertised for bids on April 20, 2017. The project limits consist of Addison and Center St from Main to Roosevelt; Main St from York to west of Addison St; York Rd from Roosevelt to Main St; and Roosevelt Rd from Mason to Center St. On Thursday May 4, 2017, we opened the bids for the subject project. As-read bid results are shown in the table below.

Contractor	Base Bid	Alternate 1	Alternate 2	Rank
R.W. Dunteman Company, Addison, IL	\$2,093,865.93	\$2,173,987.26	\$2,243,212.56	1
Copenhaver Construction, Gilberts, IL	\$2,137,944.00	\$2,192,545.00	\$2,329,852.00	2
Alliance Contractors, Woodstock, IL	\$2,505,426.30	\$2,515,780.15	\$2,606,554.65	3
Martam Construction, Elgin, IL	\$2,537,533.10	\$2,570,591.60	\$2,721,292.55	4
A-Lamp Concrete, Schaumburg, IL	\$2,539,242.50	\$2,582,332.25	\$2,676,731.90	5
Landmark Contractors, Huntley, IL	\$2,572,462.00	\$2,616,681.52	\$2,669,212.30	6
Engineer's Estimate	\$2,112,170.00	\$2,133,573.00	\$2,233,864.00	N/A

Base Bid: Includes reconstruction of Addison St and Center St within project limits including new C&G, aprons and Hot-mix asphalt pavement. Addison St receives a new 8-inch watermain with new services. Center St receives a 30-inch storm sewer as identified in the master plan. Both streets receive parallel parking as well as aesthetic improvements such as stamped concrete sidewalk, benches, planters, etc. Main St receives similar aesthetic improvements on both sides of the streets. York Rd consists of stamped concrete sidewalk improvements similar to Irving Park Rd. Roosevelt Rd consists of abandoning one of the dual existing watermain and sanitary sewer by

transferring services as well as remove and replace severely deteriorated sanitary sewer structures.

Alternate 1: Includes everything listed in Base bid. The only change is that parallel parking stall pavement consists of permeable pavers instead of Hot-mix Asphalt.

Alternate 2: Includes all the scope of work in Base + Alternate 1. In addition, it includes resurfacing of Main St within project limits.

In FY 2017, the construction budget for this project is \$1,329,000 of which \$1,189,000 for streets and \$140,000 for watermain along Addison St. Since the budget the following items have been included in the scope of work to drive up the costs.

Additional/Revised Items	Amount[#]
Roosevelt Ave Sanitary/Water + Patching	\$180,000.00
Center St 30-inch Storm sewer + trench backfill	\$250,000.00
Non-special waste (all spoils will go to landfill)	\$120,000.00
Stamped sidewalk along Metra Platform (south side of Main St)	\$166,000.00
Raised Planter boxes	\$45,000.00
Enhanced stamped cross walks	\$50,000.00
Tree Removal	\$15,000.00
Additional Curb for Parallel Stalls	\$10,000.00
Total	\$836,000.00

[#]Based on Engineer's estimate

Based on the bid results of Alternate #1, the budget gap is \$845,000.00. Furthermore, there is a short fall of approximately \$28,000 to cover the construction engineering services. The following project savings can help offset some of the extra costs.

Church Rd LAFO – Phase III Reimbursement	\$88,000.00
Church Rd Reconstruction – Design – Contract savings	\$98,000.00
IL 83 Bike path – Phase I Design – Negotiations Savings	\$6,000.00
Church Rd Bike path TAP – Phase II Design- Negotiations Savings	\$45,000.00
IL-19 Streetscape Phase II – Construction – Contract Savings*	\$90,000.00
IL-19 Streetscape Phase II – Construction – Speedway Reimbursement due to delay	\$43,000.00
EOWA Construction Assistance – Eliminate	\$50,000.00
York/Green Marquee Sign – Eliminate	\$150,000.00
Total	\$570,000.00

*estimated

Furthermore, there are items identified in the bid that are eligible TIF and water/sewer funds expenses.

TIF 5 & 12 Eligible Streetscape Enhancement	\$332,000.00
Water/sewer Eligible Improvements	\$160,000.00
Total	\$492,000.00

Downtown area improvements is one of the strategic goals of the Village Board. The underground utility improvements in this project are necessary from an asset management and maintenance perspective. Main St from Church Rd to York Rd is classified as a Federal Aid Route and is eligible for Surface Transportation Program funding. The goal will be to apply for a funding in the next call for projects. With that said, my recommendation is to award the Alternate 1 bid to R.W. Dunteman Company for \$2,173,987.26. Please advise how to proceed forward.

TYPE: Resolution **SUBMITTED BY:** Joe Caracci **DATE:** 04/19/2016

DESCRIPTION: Consideration of a Resolution authorizing award of a construction contract Alternate 1 (rejecting Base bid and Alternate 2) to R W Dunteman Company of Addison, IL for the Downtown Streetscape Project – North Half in the amount of \$2,173,987.26

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

<input checked="" type="checkbox"/>	<i>Financially Sound Village</i>	<input checked="" type="checkbox"/>	<i>Enrich the lives of Residents</i>
<input checked="" type="checkbox"/>	<i>Quality Customer Oriented Services</i>	<input checked="" type="checkbox"/>	<i>Major Business/Corporate Center</i>
<input checked="" type="checkbox"/>	<i>Safe and Beautiful Village</i>	<input checked="" type="checkbox"/>	<i>Vibrant Major Corridors</i>

ASSIGNED COMMITTEE: I&E

DATE: 5/16/17

BACKGROUND: Based on the Pavement Condition Index (PCI) report conducted in 2014, Addison St through downtown Bensenville has been identified as one of the streets needing to be reconstructed. The PCI rating for this segment between Main St and Roosevelt Rd is 28. One of the strategic goals of the Village Board is to also improve the aesthetics of the downtown Bensenville. Phase I to be constructed in 2017 will consist of north of the railroad tracks (Addison and Center St from Main to Roosevelt; Main St from York to west of Addison St and minor aesthetic improvements along York Rd from Roosevelt to Main). Addison St/Center St from Main St to Roosevelt Rd will be reconstructed with a new Hot-Mix Asphalt pavement, stamped sidewalk, C&G, driveway aprons, watermain replacement on Addison St along with new services, 30-inch storm sewer as identified in the master plan along Center St, striping and landscape restoration. Main St and York Rd will receive aesthetic upgrades including but not limited to stamped sidewalk, benches, planter boxes, stamped cross walks, etc.

KEY ISSUES: Bids were received on May 4, 2017 for the project. Six (6) contractors submitted bids. R W Dunteman submitted the lowest bid. A summary of the results is included below. The Base bid includes aforementioned scope of work. Alternate-1 includes base bid work but substitutes the parallel parking spaces with permeable pavers. Alternate-2 includes all Alternate-1 work plus resurfacing of Main St within the project limits.

Contractor	Base Bid	Alternate 1	Alternate 2	Rank
R.W. Dunteman Company, Addison, IL	\$2,093,865.93	\$2,173,987.26	\$2,243,212.56	1
Copenhaver Construction, Gilberts, IL	\$2,137,944.00	\$2,192,545.00	\$2,329,852.00	2
Alliance Contractors, Woodstock, IL	\$2,505,426.30	\$2,515,780.15	\$2,606,554.65	3
Martam Construction, Elgin, IL	\$2,537,533.10	\$2,570,591.60	\$2,721,292.55	4
A-Lamp Concrete, Schaumburg, IL	\$2,539,242.50	\$2,582,332.25	\$2,676,731.90	5
Landmark Contractors, Huntley, IL	\$2,572,462.00	\$2,616,681.52	\$2,669,212.30	6
Engineer's Estimate	\$2,112,170.00	\$2,133,573.00	\$2,233,864.00	N/A

ALTERNATIVES: Discretion of the Committee

RECOMMENDATION: Award of Alternate-1 to R.W. Dunteman Company in the amount of \$2,173,987.26

BUDGET IMPACT: A total of \$1,329,000 is budgeted for this project in utility funds of which \$140,000 is for watermain. Based on the bid tabulation \$1,874,618.00 of \$2,173,987.26 is streetscape related while the rest is water/sewer related. The scope of the project has increased since the budget with the additional underground utility and expanded streetscape. The current engineer's estimate for Alternate 1 is \$2,133,000.00. The added scope includes storm sewer on Center St as identified in the stormwater master plan, sanitary and watermain work along Roosevelt, streetscape along north side of

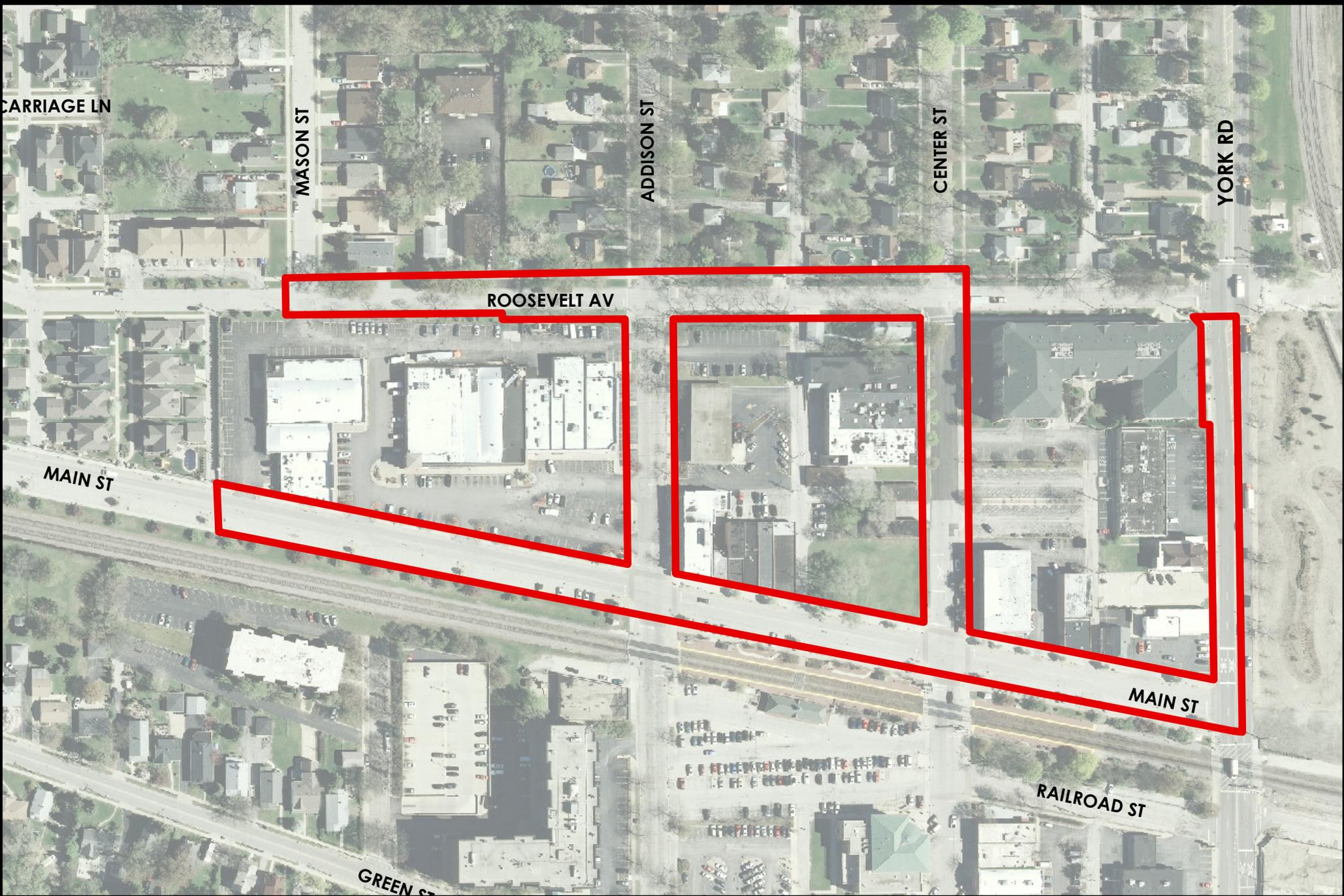
Metra platform, stamped cross walks, additional curb for the on street parking and permeable pavers.

ACTION REQUIRED: Consider a motion to approve a Resolution authorizing the award of a construction contract Alternate 1 (reject Base Bid and Alternate 2) to R.W. Dunteman Company for the Downtown Streetscape Project – North Half in the amount of \$2,173,987.26



Village of Bensenville

Downtown Streetscape Phase I





Municipal Expertise. Community Commitment.

Mark A. Wesolowski, P.E

Direct Line: (815) 412-2710

Email: mwesolowski@reltd.com

May 5, 2017

REL 15-R0650

Village of Bensenville
12 S. Center Street
Bensenville, IL Itasca, IL 60106

Attn: Mr. Joe Caracci, P.E.
Director of Public Works

RE: DOWNTOWN AREA IMPROVEMENTS – NORTH HALF
MFT SECTION No.#16-00093-00-FP

Dear Mr. Caracci:

We have reviewed the bids received May 4, 2017, at Village Hall, and find them to be correct and in order. The as-corrected bid tabulation is attached with the summaries as follows, in order based on the Based Bid:

Table with 4 columns: Contractor, Base Bid, Alternate Bid #1, Alternate Bid #2. Rows include R.W. Dunteman Co., Copenhagen Construction, Inc., Alliance Contractors, Inc., Martam Construction, Inc., A Lamp Concrete Construction, Inc., and Landmark Contractors.

We therefore recommend award of the contract to the low bidder, R.W. Dunteman Co. in the amount of Two Million, Ninety-Three Thousand, Eight Hundred Sixty-Five Dollars and Ninety-Three Cents (\$2,093,865.93) based on the Base Bid amount, and contingent upon IDOT concurrence. If you have any questions, please do not hesitate to contact me at your convenience.

Very truly yours,

ROBINSON ENGINEERING, LTD.

Handwritten signature of Mark A. Wesolowski

Mark A. Wesolowski, P.E., CFM
Senior Project Manager
MAW/rd

R:\2015-2019\2015\15-R0650.BN\15-R0650_Award Bid Ltr_05-05-17.docx

Encl:



Tabulation of Bids

Base Bid

Local Public Agency: Village of Bensenville Date: 5/4/2017
 County: DuPAGE Time: 11:00 AM
 Section: 16-00093-00-FP Appropriation: MFT AND GENERAL FUNDS
 Estimate: \$2,112,170.00

Attended By: Wesolowski, Mark

	Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
	Address of Bidder:			
	Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	369	\$35.00	\$12,915.00	\$16.00	\$5,904.00	\$16.00	\$5,904.00	\$15.00	\$5,535.00
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	84	\$45.00	\$3,780.00	\$19.00	\$1,596.00	\$19.00	\$1,596.00	\$25.00	\$2,100.00
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	380	\$40.00	\$15,200.00	\$29.55	\$11,229.00	\$15.00	\$5,700.00	\$30.00	\$11,400.00
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,140	\$2.00	\$2,280.00	\$2.16	\$2,462.40	\$2.00	\$2,280.00	\$1.00	\$1,140.00
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	400	\$7.00	\$2,800.00	\$0.10	\$40.00	\$4.00	\$1,600.00	\$0.10	\$40.00
28000510	INLET FILTERS	EACH	30	\$125.00	\$3,750.00	\$140.00	\$4,200.00	\$10.00	\$300.00	\$25.00	\$750.00
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3,590	\$16.00	\$57,440.00	\$11.17	\$40,100.30	\$8.00	\$28,720.00	\$6.25	\$22,437.50
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUN D	7,920	\$0.50	\$3,960.00	\$0.10	\$792.00	\$0.50	\$3,960.00	\$0.40	\$3,168.00
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUN D	1,840	\$0.50	\$920.00	\$0.10	\$184.00	\$0.50	\$920.00	\$0.40	\$736.00
40600625	LEVELING BINDER (MACHINE METHOD), N50	Ton	30	\$75.00	\$2,250.00	\$124.80	\$3,744.00	\$220.00	\$6,600.00	\$200.00	\$6,000.00
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	Ton	1,000	\$65.00	\$65,000.00	\$68.99	\$68,990.00	\$69.00	\$69,000.00	\$63.00	\$63,000.00
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	Ton	470	\$70.00	\$32,900.00	\$73.22	\$34,413.40	\$82.00	\$38,540.00	\$75.00	\$35,250.00
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	440	\$8.00	\$3,520.00	\$5.69	\$2,503.60	\$7.00	\$3,080.00	\$6.75	\$2,970.00
42400800	DETECTABLE WARNINGS	SQ FT	409	\$26.00	\$10,634.00	\$24.00	\$9,816.00	\$27.00	\$11,043.00	\$15.00	\$6,135.00
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	740	\$2.25	\$1,665.00	\$4.95	\$3,663.00	\$9.00	\$6,660.00	\$8.00	\$5,920.00

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$20.00	\$7,380.00	\$16.50	\$6,088.50	\$14.50	\$5,350.50
\$24.00	\$2,016.00	\$27.50	\$2,310.00	\$17.50	\$1,470.00
\$46.00	\$17,480.00	\$40.00	\$15,200.00	\$62.00	\$23,560.00
\$2.50	\$2,850.00	\$1.00	\$1,140.00	\$1.50	\$1,710.00
\$6.00	\$2,400.00	\$6.00	\$2,400.00	\$0.10	\$40.00
\$180.00	\$5,400.00	\$15.00	\$450.00	\$140.00	\$4,200.00
\$8.00	\$28,720.00	\$8.00	\$28,720.00	\$10.90	\$39,131.00
\$0.50	\$3,960.00	\$0.01	\$79.20	\$0.01	\$79.20
\$0.50	\$920.00	\$0.01	\$18.40	\$0.01	\$18.40
\$240.00	\$7,200.00	\$150.00	\$4,500.00	\$100.00	\$3,000.00
\$74.00	\$74,000.00	\$69.00	\$69,000.00	\$80.00	\$80,000.00
\$86.00	\$40,420.00	\$75.00	\$35,250.00	\$90.00	\$42,300.00
\$6.50	\$2,860.00	\$8.00	\$3,520.00	\$7.00	\$3,080.00
\$26.00	\$10,634.00	\$25.00	\$10,225.00	\$13.80	\$5,644.20
\$10.00	\$7,400.00	\$6.50	\$4,810.00	\$4.50	\$3,330.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	700	\$20.00	\$14,000.00	\$16.39	\$11,473.00	\$14.00	\$9,800.00	\$23.00	\$16,100.00
44000300	CURB REMOVAL	FOOT	1,240	\$10.00	\$12,400.00	\$4.16	\$5,158.40	\$6.00	\$7,440.00	\$30.00	\$37,200.00
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,270	\$8.00	\$26,160.00	\$5.18	\$16,938.60	\$6.00	\$19,620.00	\$30.00	\$98,100.00
44000600	SIDEWALK REMOVAL	SQ FT	26,160	\$3.00	\$78,480.00	\$0.92	\$24,067.20	\$1.50	\$39,240.00	\$2.00	\$52,320.00
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	348	\$52.00	\$18,096.00	\$42.00	\$14,616.00	\$57.00	\$19,836.00	\$55.00	\$19,140.00
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	93	\$58.00	\$5,394.00	\$45.00	\$4,185.00	\$58.00	\$5,394.00	\$60.00	\$5,580.00
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	37	\$65.00	\$2,405.00	\$49.00	\$1,813.00	\$62.00	\$2,294.00	\$62.00	\$2,294.00
550A2580	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 30"	FOOT	508	\$125.00	\$63,500.00	\$71.00	\$36,068.00	\$75.00	\$38,100.00	\$98.00	\$49,784.00
56106300	ADJUSTING WATER MAIN 6"	FOOT	32	\$125.00	\$4,000.00	\$135.00	\$4,320.00	\$80.00	\$2,560.00	\$215.00	\$6,880.00
56106600	ADJUSTING WATER MAIN 12"	FOOT	152	\$250.00	\$38,000.00	\$141.00	\$21,432.00	\$70.00	\$10,640.00	\$250.00	\$38,000.00
56200500	WATER SERVICE LINE 1 1/2"	FOOT	135	\$35.00	\$4,725.00	\$55.00	\$7,425.00	\$32.00	\$4,320.00	\$32.00	\$4,320.00
56200700	WATER SERVICE LINE 2"	FOOT	135	\$65.00	\$8,775.00	\$59.00	\$7,965.00	\$39.00	\$5,265.00	\$40.00	\$5,400.00
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1	\$750.00	\$750.00	\$700.00	\$700.00	\$800.00	\$800.00	\$800.00	\$800.00
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	2	\$4,500.00	\$9,000.00	\$5,500.00	\$11,000.00	\$5,900.00	\$11,800.00	\$5,500.00	\$11,000.00
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	525	\$30.00	\$15,750.00	\$19.45	\$10,211.25	\$18.00	\$9,450.00	\$34.00	\$17,850.00
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	\$2,600.00	\$2,600.00	\$2,640.00	\$2,640.00	\$2,800.00	\$2,800.00	\$3,600.00	\$3,600.00
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	\$2,600.00	\$2,600.00	\$2,745.00	\$2,745.00	\$2,800.00	\$2,800.00	\$3,800.00	\$3,800.00
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	\$2,600.00	\$2,600.00	\$1,365.00	\$1,365.00	\$2,800.00	\$2,800.00	\$1,800.00	\$1,800.00
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	\$3,000.00	\$15,000.00	\$2,625.00	\$13,125.00	\$2,700.00	\$13,500.00	\$3,800.00	\$19,000.00
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$4,000.00	\$8,000.00	\$3,385.00	\$6,770.00	\$3,500.00	\$7,000.00	\$4,800.00	\$9,600.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$16.00	\$11,200.00	\$15.00	\$10,500.00	\$12.35	\$8,645.00
\$8.00	\$9,920.00	\$3.00	\$3,720.00	\$9.60	\$11,904.00
\$8.00	\$26,160.00	\$3.00	\$9,810.00	\$11.85	\$38,749.50
\$1.50	\$39,240.00	\$1.00	\$26,160.00	\$1.64	\$42,902.40
\$66.00	\$22,968.00	\$80.00	\$27,840.00	\$55.00	\$19,140.00
\$86.00	\$7,998.00	\$90.00	\$8,370.00	\$60.00	\$5,580.00
\$91.00	\$3,367.00	\$105.00	\$3,885.00	\$62.00	\$2,294.00
\$118.00	\$59,944.00	\$155.00	\$78,740.00	\$98.00	\$49,784.00
\$181.00	\$5,792.00	\$95.00	\$3,040.00	\$215.00	\$6,880.00
\$221.00	\$33,592.00	\$150.00	\$22,800.00	\$250.00	\$38,000.00
\$86.00	\$11,610.00	\$75.00	\$10,125.00	\$32.00	\$4,320.00
\$104.00	\$14,040.00	\$80.00	\$10,800.00	\$40.00	\$5,400.00
\$8,550.00	\$8,550.00	\$1,200.00	\$1,200.00	\$800.00	\$800.00
\$4,890.00	\$9,780.00	\$7,000.00	\$14,000.00	\$5,500.00	\$11,000.00
\$17.00	\$8,925.00	\$35.00	\$18,375.00	\$34.00	\$17,850.00
\$3,860.00	\$3,860.00	\$3,200.00	\$3,200.00	\$3,600.00	\$3,600.00
\$4,160.00	\$4,160.00	\$3,200.00	\$3,200.00	\$3,800.00	\$3,800.00
\$2,280.00	\$2,280.00	\$1,800.00	\$1,800.00	\$1,800.00	\$1,800.00
\$3,610.00	\$18,050.00	\$3,000.00	\$15,000.00	\$3,800.00	\$19,000.00
\$5,330.00	\$10,660.00	\$4,000.00	\$8,000.00	\$4,800.00	\$9,600.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$6,000.00	\$6,000.00	\$5,175.00	\$5,175.00	\$5,300.00	\$5,300.00	\$5,600.00	\$5,600.00
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	6	\$1,200.00	\$7,200.00	\$1,160.00	\$6,960.00	\$1,100.00	\$6,600.00	\$1,400.00	\$8,400.00
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	2	\$1,200.00	\$2,400.00	\$1,274.00	\$2,548.00	\$1,100.00	\$2,200.00	\$1,600.00	\$3,200.00
60600605	CONCRETE CURB, TYPE B	FOOT	140	\$20.00	\$2,800.00	\$17.18	\$2,405.20	\$25.00	\$3,500.00	\$26.25	\$3,675.00
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	3,520	\$20.00	\$70,400.00	\$18.87	\$66,422.40	\$23.00	\$80,960.00	\$28.75	\$101,200.00
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,130	\$50.00	\$106,500.00	\$68.32	\$145,521.60	\$20.00	\$42,600.00	\$1.00	\$2,130.00
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	588	\$5.00	\$2,940.00	\$3.50	\$2,058.00	\$2.00	\$1,176.00	\$4.00	\$2,352.00
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	436	\$2.00	\$872.00	\$1.25	\$545.00	\$2.00	\$872.00	\$0.80	\$348.80
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	208	\$3.00	\$624.00	\$2.25	\$468.00	\$5.00	\$1,040.00	\$1.25	\$260.00
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	250	\$12.00	\$3,000.00	\$4.00	\$1,000.00	\$9.00	\$2,250.00	\$4.00	\$1,000.00
R1001012	6" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	\$4,500.00	\$18,000.00	\$4,059.00	\$16,236.00	\$3,800.00	\$15,200.00	\$5,200.00	\$20,800.00
R1001016	8" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$5,500.00	\$11,000.00	\$4,733.00	\$9,466.00	\$4,200.00	\$8,400.00	\$5,800.00	\$11,600.00
R1001025	12" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$7,000.00	\$14,000.00	\$5,840.00	\$11,680.00	\$5,200.00	\$10,400.00	\$6,800.00	\$13,600.00
R1001470	VALVE VAULTS TO BE REMOVED	EACH	3	\$1,000.00	\$3,000.00	\$575.00	\$1,725.00	\$500.00	\$1,500.00	\$350.00	\$1,050.00
R1002077	6" PVC WATER MAIN	FOOT	124	\$50.00	\$6,200.00	\$76.00	\$9,424.00	\$75.00	\$9,300.00	\$95.00	\$11,780.00
R1002079	8" PVC WATER MAIN	FOOT	353	\$75.00	\$26,475.00	\$70.00	\$24,710.00	\$79.00	\$27,887.00	\$110.00	\$38,830.00
R1002225	6" CUT & CAP	EACH	6	\$1,500.00	\$9,000.00	\$425.00	\$2,550.00	\$600.00	\$3,600.00	\$750.00	\$4,500.00
R2001355	PVC SANITARY SEWER, 12"	FOOT	36	\$45.00	\$1,620.00	\$68.00	\$2,448.00	\$145.00	\$5,220.00	\$140.00	\$5,040.00
R2001360	PVC SANITARY SEWER, 15"	FOOT	19	\$50.00	\$950.00	\$119.00	\$2,261.00	\$150.00	\$2,850.00	\$165.00	\$3,135.00
R2001955	SANITARY SEWER TO BE ABANDONED, 15"	FOOT	805	\$15.00	\$12,075.00	\$19.00	\$15,295.00	\$3.00	\$2,415.00	\$12.00	\$9,660.00
R2002020	CCDD SAMPLING	L SUM	1	\$10,000.00	\$10,000.00	\$13,000.00	\$13,000.00	\$6,000.00	\$6,000.00	\$1.00	\$1.00
R2002160	SANITARY MANHOLE, 48" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	\$6,250.00	\$18,750.00	\$4,160.00	\$12,480.00	\$3,300.00	\$9,900.00	\$6,500.00	\$19,500.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$6,710.00	\$6,710.00	\$7,500.00	\$7,500.00	\$5,600.00	\$5,600.00
\$1,350.00	\$8,100.00	\$1,700.00	\$10,200.00	\$1,400.00	\$8,400.00
\$1,500.00	\$3,000.00	\$1,700.00	\$3,400.00	\$1,600.00	\$3,200.00
\$24.00	\$3,360.00	\$25.00	\$3,500.00	\$32.50	\$4,550.00
\$24.00	\$84,480.00	\$20.00	\$70,400.00	\$34.00	\$119,680.00
\$97.00	\$206,610.00	\$10.00	\$21,300.00	\$104.00	\$221,520.00
\$4.20	\$2,469.60	\$3.85	\$2,263.80	\$3.50	\$2,058.00
\$1.00	\$436.00	\$2.20	\$959.20	\$2.00	\$872.00
\$1.50	\$312.00	\$3.30	\$686.40	\$3.00	\$624.00
\$4.25	\$1,062.50	\$5.50	\$1,375.00	\$5.00	\$1,250.00
\$6,410.00	\$25,640.00	\$4,000.00	\$16,000.00	\$5,200.00	\$20,800.00
\$7,110.00	\$14,220.00	\$4,500.00	\$9,000.00	\$5,800.00	\$11,600.00
\$8,860.00	\$17,720.00	\$6,000.00	\$12,000.00	\$6,800.00	\$13,600.00
\$400.00	\$1,200.00	\$450.00	\$1,350.00	\$350.00	\$1,050.00
\$91.00	\$11,284.00	\$80.00	\$9,920.00	\$95.00	\$11,780.00
\$98.00	\$34,594.00	\$90.00	\$31,770.00	\$110.00	\$38,830.00
\$2,410.00	\$14,460.00	\$1,500.00	\$9,000.00	\$750.00	\$4,500.00
\$188.00	\$6,768.00	\$125.00	\$4,500.00	\$140.00	\$5,040.00
\$241.00	\$4,579.00	\$135.00	\$2,565.00	\$165.00	\$3,135.00
\$4.00	\$3,220.00	\$20.00	\$16,100.00	\$12.00	\$9,660.00
\$5,500.00	\$5,500.00	\$5,000.00	\$5,000.00	\$1,250.00	\$1,250.00
\$3,980.00	\$11,940.00	\$7,500.00	\$22,500.00	\$6,500.00	\$19,500.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
R2002190	SANITARY MANHOLE, DROP, 48" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$8,500.00	\$8,500.00	\$5,340.00	\$5,340.00	\$3,000.00	\$3,000.00	\$8,500.00	\$8,500.00
R2002195	SANITARY MANHOLE, DROP, 60" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$10,500.00	\$10,500.00	\$7,675.00	\$7,675.00	\$4,000.00	\$4,000.00	\$10,800.00	\$10,800.00
R2002325	SANITARY SEWER SERVICE, 6"	FOOT	56	\$200.00	\$11,200.00	\$71.00	\$3,976.00	\$45.00	\$2,520.00	\$60.00	\$3,360.00
R2004025	SEWER FLOW CONTROL AND BYPASS PUMPING	L SUM	1	\$20,000.00	\$20,000.00	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$4,800.00	\$4,800.00
R6001020	CLASS D PATCHES, 7 INCH	SQ YD	370	\$56.00	\$20,720.00	\$62.39	\$23,084.30	\$66.00	\$24,420.00	\$60.00	\$22,200.00
RX502132	RELOCATE EXISTING OUTLET BOX	EACH	14	\$150.00	\$2,100.00	\$1,398.00	\$19,572.00	\$1,020.00	\$14,280.00	\$1,398.00	\$19,572.00
RX502133	REMOVE EXISTING OUTLET BOX	EACH	10	\$100.00	\$1,000.00	\$630.00	\$6,300.00	\$1,750.00	\$17,500.00	\$630.00	\$6,300.00
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2	\$1,800.00	\$3,600.00	\$850.00	\$1,700.00	\$1,200.00	\$2,400.00	\$600.00	\$1,200.00
X0323389	STORM SEWER CONNECTION	EACH	3	\$1,000.00	\$3,000.00	\$1,050.00	\$3,150.00	\$1,100.00	\$3,300.00	\$750.00	\$2,250.00
X0324878	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	10	\$1,600.00	\$16,000.00	\$500.00	\$5,000.00	\$1,200.00	\$12,000.00	\$1,500.00	\$15,000.00
X0326275	RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	1	\$3,000.00	\$3,000.00	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
X0326862	STRUCTURES TO BE ADJUSTED	EACH	16	\$325.00	\$5,200.00	\$350.00	\$5,600.00	\$550.00	\$8,800.00	\$350.00	\$5,600.00
X0327762	RAILROAD FLAGGER	LSUM	1	\$2,500.00	\$2,500.00	\$5,489.54	\$5,489.54	\$3,000.00	\$3,000.00	\$700.00	\$700.00
X1200015	VALVE VAULTS TO BE ABANDONED	EACH	1	\$2,000.00	\$2,000.00	\$800.00	\$800.00	\$400.00	\$400.00	\$300.00	\$300.00
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	350	\$30.00	\$10,500.00	\$34.74	\$12,159.00	\$28.00	\$9,800.00	\$30.00	\$10,500.00
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	Ton	212	\$30.00	\$6,360.00	\$48.84	\$10,354.08	\$15.00	\$3,180.00	\$20.00	\$4,240.00
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	1,380	\$30.00	\$41,400.00	\$27.83	\$38,405.40	\$33.00	\$45,540.00	\$42.00	\$57,960.00
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	\$40.00	\$4,000.00	\$27.71	\$2,771.00	\$10.00	\$1,000.00	\$1.00	\$100.00
X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	400	\$15.00	\$6,000.00	\$28.50	\$11,400.00	\$7.00	\$2,800.00	\$28.50	\$11,400.00
X4230800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	SQ YD	750	\$65.00	\$48,750.00	\$46.34	\$34,755.00	\$67.00	\$50,250.00	\$75.00	\$56,250.00
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	4,510	\$15.00	\$67,650.00	\$11.95	\$53,894.50	\$14.00	\$63,140.00	\$30.00	\$135,300.00
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	380	\$12.00	\$4,560.00	\$22.00	\$8,360.00	\$6.00	\$2,280.00	\$15.00	\$5,700.00
X5510100	STORM SEWER REMOVAL	FOOT	211	\$35.00	\$7,385.00	\$20.00	\$4,220.00	\$12.00	\$2,532.00	\$10.00	\$2,110.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$7,410.00	\$7,410.00	\$9,000.00	\$9,000.00	\$8,500.00	\$8,500.00
\$8,920.00	\$8,920.00	\$12,000.00	\$12,000.00	\$10,800.00	\$10,800.00
\$141.00	\$7,896.00	\$60.00	\$3,360.00	\$60.00	\$3,360.00
\$8,500.00	\$8,500.00	\$15,000.00	\$15,000.00	\$4,800.00	\$4,800.00
\$70.00	\$25,900.00	\$60.00	\$22,200.00	\$64.00	\$23,680.00
\$1,600.00	\$22,400.00	\$1,200.00	\$16,800.00	\$1,398.00	\$19,572.00
\$1,000.00	\$10,000.00	\$700.00	\$7,000.00	\$630.00	\$6,300.00
\$850.00	\$1,700.00	\$1,500.00	\$3,000.00	\$600.00	\$1,200.00
\$650.00	\$1,950.00	\$1,500.00	\$4,500.00	\$750.00	\$2,250.00
\$350.00	\$3,500.00	\$600.00	\$6,000.00	\$1,500.00	\$15,000.00
\$1,800.00	\$1,800.00	\$7,500.00	\$7,500.00	\$1,000.00	\$1,000.00
\$440.00	\$7,040.00	\$350.00	\$5,600.00	\$350.00	\$5,600.00
\$35,000.00	\$35,000.00	\$15,000.00	\$15,000.00	\$5,600.00	\$5,600.00
\$480.00	\$480.00	\$400.00	\$400.00	\$300.00	\$300.00
\$46.00	\$16,100.00	\$45.00	\$15,750.00	\$62.00	\$21,700.00
\$28.00	\$5,936.00	\$35.00	\$7,420.00	\$29.00	\$6,148.00
\$42.00	\$57,960.00	\$32.00	\$44,160.00	\$42.00	\$57,960.00
\$56.00	\$5,600.00	\$75.00	\$7,500.00	\$25.00	\$2,500.00
\$12.00	\$4,800.00	\$20.00	\$8,000.00	\$28.50	\$11,400.00
\$69.00	\$51,750.00	\$65.00	\$48,750.00	\$78.00	\$58,500.00
\$15.00	\$67,650.00	\$15.00	\$67,650.00	\$15.60	\$70,356.00
\$8.00	\$3,040.00	\$10.00	\$3,800.00	\$15.00	\$5,700.00
\$8.00	\$1,688.00	\$1.00	\$211.00	\$10.00	\$2,110.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	745	\$15.00	\$11,175.00	\$9.25	\$6,891.25	\$6.00	\$4,470.00	\$10.00	\$7,450.00
X5610706	WATER MAIN REMOVAL, 6"	FOOT	126	\$60.00	\$7,560.00	\$18.50	\$2,331.00	\$10.00	\$1,260.00	\$5.00	\$630.00
X5620035	WATER SERVICE CONNECTION 1 1/2"	EACH	6	\$1,200.00	\$7,200.00	\$950.00	\$5,700.00	\$600.00	\$3,600.00	\$2,200.00	\$13,200.00
X5620040	WATER SERVICE CONNECTION 2"	EACH	6	\$1,200.00	\$7,200.00	\$1,090.00	\$6,540.00	\$700.00	\$4,200.00	\$2,750.00	\$16,500.00
X5620128	ADJUSTING WATER SERVICE LINES	EACH	5	\$750.00	\$3,750.00	\$300.00	\$1,500.00	\$1,200.00	\$6,000.00	\$750.00	\$3,750.00
X5630704	CONNECTION TO EXISTING WATER MAIN 4"	EACH	1	\$250.00	\$250.00	\$750.00	\$750.00	\$1,100.00	\$1,100.00	\$2,000.00	\$2,000.00
X5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	10	\$250.00	\$2,500.00	\$1,275.00	\$12,750.00	\$90.00	\$900.00	\$2,400.00	\$24,000.00
X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	6	\$250.00	\$1,500.00	\$1,810.00	\$10,860.00	\$1,700.00	\$10,200.00	\$3,500.00	\$21,000.00
X6020175	DRAINAGE STRUCTURES WITH RESTRICTOR	EACH	1	\$10,000.00	\$10,000.00	\$6,560.00	\$6,560.00	\$5,500.00	\$5,500.00	\$8,200.00	\$8,200.00
X6023508	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	1	\$1,200.00	\$1,200.00	\$1,330.00	\$1,330.00	\$1,100.00	\$1,100.00	\$1,650.00	\$1,650.00
X6024090	MANHOLES, TYPE A, 6'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	3	\$6,500.00	\$19,500.00	\$5,600.00	\$16,800.00	\$4,900.00	\$14,700.00	\$5,800.00	\$17,400.00
X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	4	\$500.00	\$2,000.00	\$425.00	\$1,700.00	\$600.00	\$2,400.00	\$500.00	\$2,000.00
X6029510	CATCH BASINS, TYPE C, WITH SPECIAL FRAME AND GRATE	EACH	1	\$2,200.00	\$2,200.00	\$1,475.00	\$1,475.00	\$2,900.00	\$2,900.00	\$1,950.00	\$1,950.00
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	1,430	\$30.00	\$42,900.00	\$19.38	\$27,713.40	\$45.00	\$64,350.00	\$125.00	\$178,750.00
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	\$25,000.00	\$25,000.00	\$138,326.60	\$138,326.60	\$250,000.00	\$250,000.00	\$188,334.00	\$188,334.00
XX001621	BRICK PAVER REMOVAL	SQ FT	16,780	\$2.00	\$33,560.00	\$2.06	\$34,566.80	\$2.00	\$33,560.00	\$2.00	\$33,560.00
XX007817	BUFFALO BOX REMOVAL AND REPLACEMENT	EACH	5	\$325.00	\$1,625.00	\$770.00	\$3,850.00	\$1,000.00	\$5,000.00	\$500.00	\$2,500.00
XX007852	PEDESTRIAN BENCH, FURNISH AND INSTALL	EACH	9	\$750.00	\$6,750.00	\$1,921.91	\$17,297.19	\$1,950.00	\$17,550.00	\$2,050.00	\$18,450.00
XX007857	TRASH RECEPTACLE, FURNISH & INSTALL	EACH	10	\$450.00	\$4,500.00	\$1,500.83	\$15,008.30	\$1,700.00	\$17,000.00	\$1,815.00	\$18,150.00
XX008257	STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	52,610	\$12.00	\$631,320.00	\$13.00	\$683,930.00	\$12.00	\$631,320.00	\$11.90	\$626,059.00
XX008260	STAMPED COLORED PORTLAND CEMENT CONCRETE CROSSWALK, 18 INCH	SQ FT	2,352	\$25.00	\$58,800.00	\$21.37	\$50,262.24	\$40.00	\$94,080.00	\$32.50	\$76,440.00
Z0003855	BICYCLE RACKS	EACH	6	\$250.00	\$1,500.00	\$405.83	\$2,434.98	\$550.00	\$3,300.00	\$550.00	\$3,300.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$4.00	\$2,980.00	\$10.00	\$7,450.00	\$10.00	\$7,450.00
\$6.00	\$756.00	\$1.00	\$126.00	\$5.00	\$630.00
\$1,120.00	\$6,720.00	\$2,500.00	\$15,000.00	\$2,200.00	\$13,200.00
\$1,460.00	\$8,760.00	\$3,000.00	\$18,000.00	\$2,750.00	\$16,500.00
\$210.00	\$1,050.00	\$450.00	\$2,250.00	\$750.00	\$3,750.00
\$1,860.00	\$1,860.00	\$2,500.00	\$2,500.00	\$2,000.00	\$2,000.00
\$1,860.00	\$18,600.00	\$3,200.00	\$32,000.00	\$2,400.00	\$24,000.00
\$2,690.00	\$16,140.00	\$4,000.00	\$24,000.00	\$3,500.00	\$21,000.00
\$7,960.00	\$7,960.00	\$7,000.00	\$7,000.00	\$8,200.00	\$8,200.00
\$1,610.00	\$1,610.00	\$1,700.00	\$1,700.00	\$1,650.00	\$1,650.00
\$6,710.00	\$20,130.00	\$5,200.00	\$15,600.00	\$5,800.00	\$17,400.00
\$480.00	\$1,920.00	\$450.00	\$1,800.00	\$500.00	\$2,000.00
\$1,920.00	\$1,920.00	\$1,800.00	\$1,800.00	\$1,950.00	\$1,950.00
\$46.60	\$66,638.00	\$40.00	\$57,200.00	\$131.00	\$187,330.00
\$97,000.00	\$97,000.00	\$252,000.00	\$252,000.00	\$85,800.00	\$85,800.00
\$2.00	\$33,560.00	\$1.50	\$25,170.00	\$2.70	\$45,306.00
\$850.00	\$4,250.00	\$500.00	\$2,500.00	\$500.00	\$2,500.00
\$2,210.00	\$19,890.00	\$3,000.00	\$27,000.00	\$1,930.00	\$17,370.00
\$2,000.00	\$20,000.00	\$2,200.00	\$22,000.00	\$1,725.00	\$17,250.00
\$13.60	\$715,496.00	\$16.00	\$841,760.00	\$12.40	\$652,364.00
\$46.00	\$108,192.00	\$35.00	\$82,320.00	\$23.65	\$55,624.80
\$380.00	\$2,280.00	\$1,800.00	\$10,800.00	\$390.00	\$2,340.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	\$20,000.00	\$20,000.00	\$20,450.00	\$20,450.00	\$18,000.00	\$18,000.00	\$11,900.00	\$11,900.00
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	16	\$700.00	\$11,200.00	\$300.00	\$4,800.00	\$330.00	\$5,280.00	\$300.00	\$4,800.00
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	\$8,000.00	\$8,000.00	\$3,500.00	\$3,500.00	\$8,000.00	\$8,000.00	\$1,000.00	\$1,000.00
				TOTAL:	\$2,112,170.00		\$2,093,865.93		\$2,137,944.00		\$2,505,426.30

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$16,000.00	\$16,000.00	\$20,000.00	\$20,000.00	\$10,250.00	\$10,250.00
\$350.00	\$5,600.00	\$350.00	\$5,600.00	\$300.00	\$4,800.00
\$7,800.00	\$7,800.00	\$7,500.00	\$7,500.00	\$5,000.00	\$5,000.00
\$2,537,533.10		\$2,539,242.50		\$2,572,462.00	



Tabulation of Bids Alternate Bid #1

Local Public Agency: Village of Bensenville Date: 5/4/2017
 County: DuPAGE Time: 11:00 AM
 Section: 16-00093-00-FP Appropriation: MFT AND GENERAL FUNDS
 Estimate: \$2,133,573.00

Attended By: Wesolowski, Mark

	Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
	Address of Bidder:			
	Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	369	\$35.00	\$12,915.00	\$16.00	\$5,904.00	\$16.00	\$5,904.00	\$15.00	\$5,535.00
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	84	\$45.00	\$3,780.00	\$19.00	\$1,596.00	\$19.00	\$1,596.00	\$25.00	\$2,100.00
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	380	\$40.00	\$15,200.00	\$29.21	\$11,099.80	\$15.00	\$5,700.00	\$30.00	\$11,400.00
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,140	\$2.00	\$2,280.00	\$2.14	\$2,439.60	\$2.00	\$2,280.00	\$1.00	\$1,140.00
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	400	\$7.00	\$2,800.00	\$0.10	\$40.00	\$4.00	\$1,600.00	\$0.10	\$40.00
28000510	INLET FILTERS	EACH	30	\$125.00	\$3,750.00	\$140.00	\$4,200.00	\$10.00	\$300.00	\$25.00	\$750.00
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3,143	\$16.00	\$50,288.00	\$11.05	\$34,730.15	\$8.00	\$25,144.00	\$6.25	\$19,643.75
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUN D	6,940	\$0.50	\$3,470.00	\$0.10	\$694.00	\$0.50	\$3,470.00	\$0.40	\$2,776.00
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUN D	1,640	\$0.50	\$820.00	\$0.10	\$164.00	\$0.50	\$820.00	\$0.40	\$656.00
40600625	LEVELING BINDER (MACHINE METHOD), N50	Ton	30	\$75.00	\$2,250.00	\$123.39	\$3,701.70	\$220.00	\$6,600.00	\$200.00	\$6,000.00
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	Ton	870	\$65.00	\$56,550.00	\$68.21	\$59,342.70	\$71.00	\$61,770.00	\$65.00	\$56,550.00
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	Ton	410	\$70.00	\$28,700.00	\$72.40	\$29,684.00	\$88.00	\$36,080.00	\$80.00	\$32,800.00
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	440	\$8.00	\$3,520.00	\$5.68	\$2,499.20	\$7.00	\$3,080.00	\$6.75	\$2,970.00
42400800	DETECTABLE WARNINGS	SQ FT	409	\$26.00	\$10,634.00	\$24.00	\$9,816.00	\$27.00	\$11,043.00	\$15.00	\$6,135.00
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	740	\$2.25	\$1,665.00	\$4.95	\$3,663.00	\$9.00	\$6,660.00	\$8.00	\$5,920.00

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$20.00	\$7,380.00	\$16.50	\$6,088.50	\$14.50	\$5,350.50
\$24.00	\$2,016.00	\$27.50	\$2,310.00	\$17.50	\$1,470.00
\$46.00	\$17,480.00	\$40.00	\$15,200.00	\$62.00	\$23,560.00
\$2.50	\$2,850.00	\$1.00	\$1,140.00	\$1.50	\$1,710.00
\$6.00	\$2,400.00	\$6.00	\$2,400.00	\$0.10	\$40.00
\$180.00	\$5,400.00	\$15.00	\$450.00	\$140.00	\$4,200.00
\$8.00	\$25,144.00	\$8.00	\$25,144.00	\$10.90	\$34,258.70
\$0.50	\$3,470.00	\$0.01	\$69.40	\$0.01	\$69.40
\$0.50	\$820.00	\$0.01	\$16.40	\$0.01	\$16.40
\$240.00	\$7,200.00	\$150.00	\$4,500.00	\$100.00	\$3,000.00
\$76.00	\$66,120.00	\$69.00	\$60,030.00	\$80.00	\$69,600.00
\$91.00	\$37,310.00	\$75.00	\$30,750.00	\$90.00	\$36,900.00
\$6.50	\$2,860.00	\$8.00	\$3,520.00	\$7.00	\$3,080.00
\$26.00	\$10,634.00	\$25.00	\$10,225.00	\$13.80	\$5,644.20
\$10.00	\$7,400.00	\$6.50	\$4,810.00	\$4.50	\$3,330.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	700	\$20.00	\$14,000.00	\$16.39	\$11,473.00	\$14.00	\$9,800.00	\$23.00	\$16,100.00
44000300	CURB REMOVAL	FOOT	1,240	\$10.00	\$12,400.00	\$4.16	\$5,158.40	\$6.00	\$7,440.00	\$30.00	\$37,200.00
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,270	\$8.00	\$26,160.00	\$5.18	\$16,938.60	\$6.00	\$19,620.00	\$30.00	\$98,100.00
44000600	SIDEWALK REMOVAL	SQ FT	26,160	\$3.00	\$78,480.00	\$0.92	\$24,067.20	\$1.50	\$39,240.00	\$2.00	\$52,320.00
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	348	\$52.00	\$18,096.00	\$42.00	\$14,616.00	\$57.00	\$19,836.00	\$55.00	\$19,140.00
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	93	\$58.00	\$5,394.00	\$45.00	\$4,185.00	\$58.00	\$5,394.00	\$60.00	\$5,580.00
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	37	\$65.00	\$2,405.00	\$49.00	\$1,813.00	\$62.00	\$2,294.00	\$62.00	\$2,294.00
550A2580	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 30"	FOOT	508	\$125.00	\$63,500.00	\$71.00	\$36,068.00	\$75.00	\$38,100.00	\$98.00	\$49,784.00
56106300	ADJUSTING WATER MAIN 6"	FOOT	32	\$125.00	\$4,000.00	\$135.00	\$4,320.00	\$80.00	\$2,560.00	\$215.00	\$6,880.00
56106600	ADJUSTING WATER MAIN 12"	FOOT	152	\$250.00	\$38,000.00	\$141.00	\$21,432.00	\$70.00	\$10,640.00	\$250.00	\$38,000.00
56200500	WATER SERVICE LINE 1 1/2"	FOOT	135	\$35.00	\$4,725.00	\$55.00	\$7,425.00	\$37.00	\$4,995.00	\$32.00	\$4,320.00
56200700	WATER SERVICE LINE 2"	FOOT	135	\$65.00	\$8,775.00	\$59.00	\$7,965.00	\$39.00	\$5,265.00	\$40.00	\$5,400.00
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1	\$750.00	\$750.00	\$700.00	\$700.00	\$800.00	\$800.00	\$800.00	\$800.00
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	2	\$4,500.00	\$9,000.00	\$5,500.00	\$11,000.00	\$5,900.00	\$11,800.00	\$5,500.00	\$11,000.00
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	525	\$30.00	\$15,750.00	\$19.45	\$10,211.25	\$18.00	\$9,450.00	\$34.00	\$17,850.00
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	\$2,600.00	\$2,600.00	\$2,640.00	\$2,640.00	\$2,800.00	\$2,800.00	\$3,600.00	\$3,600.00
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	\$2,600.00	\$2,600.00	\$2,745.00	\$2,745.00	\$2,800.00	\$2,800.00	\$3,800.00	\$3,800.00
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	\$2,600.00	\$2,600.00	\$1,365.00	\$1,365.00	\$2,800.00	\$2,800.00	\$1,800.00	\$1,800.00
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	\$3,000.00	\$15,000.00	\$2,625.00	\$13,125.00	\$2,700.00	\$13,500.00	\$3,800.00	\$19,000.00
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$4,000.00	\$8,000.00	\$3,385.00	\$6,770.00	\$3,500.00	\$7,000.00	\$4,800.00	\$9,600.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$16.00	\$11,200.00	\$15.00	\$10,500.00	\$12.35	\$8,645.00
\$8.00	\$9,920.00	\$3.00	\$3,720.00	\$9.60	\$11,904.00
\$8.00	\$26,160.00	\$3.00	\$9,810.00	\$11.85	\$38,749.50
\$1.50	\$39,240.00	\$1.00	\$26,160.00	\$1.64	\$42,902.40
\$66.00	\$22,968.00	\$80.00	\$27,840.00	\$55.00	\$19,140.00
\$86.00	\$7,998.00	\$90.00	\$8,370.00	\$60.00	\$5,580.00
\$91.00	\$3,367.00	\$105.00	\$3,885.00	\$62.00	\$2,294.00
\$118.00	\$59,944.00	\$155.00	\$78,740.00	\$98.00	\$49,784.00
\$181.00	\$5,792.00	\$95.00	\$3,040.00	\$215.00	\$6,880.00
\$221.00	\$33,592.00	\$150.00	\$22,800.00	\$250.00	\$38,000.00
\$86.00	\$11,610.00	\$75.00	\$10,125.00	\$32.00	\$4,320.00
\$104.00	\$14,040.00	\$80.00	\$10,800.00	\$40.00	\$5,400.00
\$8,550.00	\$8,550.00	\$1,200.00	\$1,200.00	\$800.00	\$800.00
\$4,890.00	\$9,780.00	\$7,000.00	\$14,000.00	\$5,500.00	\$11,000.00
\$17.00	\$8,925.00	\$35.00	\$18,375.00	\$34.00	\$17,850.00
\$3,860.00	\$3,860.00	\$3,200.00	\$3,200.00	\$3,600.00	\$3,600.00
\$4,160.00	\$4,160.00	\$3,200.00	\$3,200.00	\$3,800.00	\$3,800.00
\$2,280.00	\$2,280.00	\$1,800.00	\$1,800.00	\$1,800.00	\$1,800.00
\$3,610.00	\$18,050.00	\$3,000.00	\$15,000.00	\$3,800.00	\$19,000.00
\$5,330.00	\$10,660.00	\$4,000.00	\$8,000.00	\$4,800.00	\$9,600.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$6,000.00	\$6,000.00	\$5,175.00	\$5,175.00	\$5,300.00	\$5,300.00	\$5,600.00	\$5,600.00
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	6	\$1,200.00	\$7,200.00	\$1,160.00	\$6,960.00	\$1,100.00	\$6,600.00	\$1,400.00	\$8,400.00
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	2	\$1,200.00	\$2,400.00	\$1,274.00	\$2,548.00	\$1,100.00	\$2,200.00	\$1,600.00	\$3,200.00
60600605	CONCRETE CURB, TYPE B	FOOT	140	\$20.00	\$2,800.00	\$17.18	\$2,405.20	\$25.00	\$3,500.00	\$26.25	\$3,675.00
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	3,520	\$20.00	\$70,400.00	\$18.87	\$66,422.40	\$23.00	\$80,960.00	\$28.75	\$101,200.00
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,130	\$50.00	\$106,500.00	\$68.32	\$145,521.60	\$20.00	\$42,600.00	\$1.00	\$2,130.00
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	123	\$5.00	\$615.00	\$3.50	\$430.50	\$2.00	\$246.00	\$4.00	\$492.00
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	588	\$2.00	\$1,176.00	\$2.00	\$1,176.00	\$2.00	\$1,176.00	\$0.80	\$470.40
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	436	\$3.00	\$1,308.00	\$3.00	\$1,308.00	\$5.00	\$2,180.00	\$1.25	\$545.00
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	208	\$12.00	\$2,496.00	\$5.00	\$1,040.00	\$9.00	\$1,872.00	\$4.00	\$832.00
R1001012	6" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	\$4,500.00	\$18,000.00	\$4,059.00	\$16,236.00	\$3,800.00	\$15,200.00	\$5,200.00	\$20,800.00
R1001016	8" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$5,500.00	\$11,000.00	\$4,733.00	\$9,466.00	\$4,200.00	\$8,400.00	\$5,800.00	\$11,600.00
R1001025	12" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$7,000.00	\$14,000.00	\$5,840.00	\$11,680.00	\$5,200.00	\$10,400.00	\$6,800.00	\$13,600.00
R1001470	VALVE VAULTS TO BE REMOVED	EACH	3	\$1,000.00	\$3,000.00	\$575.00	\$1,725.00	\$500.00	\$1,500.00	\$350.00	\$1,050.00
R1002077	6" PVC WATER MAIN	FOOT	124	\$50.00	\$6,200.00	\$76.00	\$9,424.00	\$75.00	\$9,300.00	\$95.00	\$11,780.00
R1002079	8" PVC WATER MAIN	FOOT	353	\$75.00	\$26,475.00	\$70.00	\$24,710.00	\$79.00	\$27,887.00	\$110.00	\$38,830.00
R1002225	6" CUT & CAP	EACH	6	\$1,500.00	\$9,000.00	\$425.00	\$2,550.00	\$600.00	\$3,600.00	\$750.00	\$4,500.00
R2001355	PVC SANITARY SEWER, 12"	FOOT	36	\$45.00	\$1,620.00	\$68.00	\$2,448.00	\$145.00	\$5,220.00	\$140.00	\$5,040.00
R2001360	PVC SANITARY SEWER, 15"	FOOT	19	\$50.00	\$950.00	\$119.00	\$2,261.00	\$150.00	\$2,850.00	\$165.00	\$3,135.00
R2001955	SANITARY SEWER TO BE ABANDONED, 15"	FOOT	805	\$15.00	\$12,075.00	\$19.00	\$15,295.00	\$3.00	\$2,415.00	\$12.00	\$9,660.00
R2002020	CCDD SAMPLING	L SUM	1	\$10,000.00	\$10,000.00	\$13,000.00	\$13,000.00	\$6,000.00	\$6,000.00	\$1.00	\$1.00
R2002160	SANITARY MANHOLE, 48" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	\$6,250.00	\$18,750.00	\$4,160.00	\$12,480.00	\$3,300.00	\$9,900.00	\$6,500.00	\$19,500.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$6,710.00	\$6,710.00	\$7,500.00	\$7,500.00	\$5,600.00	\$5,600.00
\$1,350.00	\$8,100.00	\$1,700.00	\$10,200.00	\$1,400.00	\$8,400.00
\$1,500.00	\$3,000.00	\$1,700.00	\$3,400.00	\$1,600.00	\$3,200.00
\$24.00	\$3,360.00	\$25.00	\$3,500.00	\$32.50	\$4,550.00
\$24.00	\$84,480.00	\$20.00	\$70,400.00	\$34.00	\$119,680.00
\$97.00	\$206,610.00	\$10.00	\$21,300.00	\$104.00	\$221,520.00
\$4.20	\$516.60	\$3.85	\$473.55	\$3.50	\$430.50
\$1.00	\$588.00	\$2.20	\$1,293.60	\$2.00	\$1,176.00
\$1.50	\$654.00	\$3.30	\$1,438.80	\$3.00	\$1,308.00
\$4.25	\$884.00	\$5.50	\$1,144.00	\$5.00	\$1,040.00
\$6,410.00	\$25,640.00	\$4,000.00	\$16,000.00	\$5,200.00	\$20,800.00
\$7,110.00	\$14,220.00	\$4,500.00	\$9,000.00	\$5,800.00	\$11,600.00
\$8,860.00	\$17,720.00	\$6,000.00	\$12,000.00	\$6,800.00	\$13,600.00
\$400.00	\$1,200.00	\$450.00	\$1,350.00	\$350.00	\$1,050.00
\$91.00	\$11,284.00	\$80.00	\$9,920.00	\$95.00	\$11,780.00
\$98.00	\$34,594.00	\$90.00	\$31,770.00	\$110.00	\$38,830.00
\$2,410.00	\$14,460.00	\$1,500.00	\$9,000.00	\$750.00	\$4,500.00
\$188.00	\$6,768.00	\$125.00	\$4,500.00	\$140.00	\$5,040.00
\$241.00	\$4,579.00	\$135.00	\$2,565.00	\$165.00	\$3,135.00
\$4.00	\$3,220.00	\$10.00	\$8,050.00	\$12.00	\$9,660.00
\$5,500.00	\$5,500.00	\$5,000.00	\$5,000.00	\$1,250.00	\$1,250.00
\$3,980.00	\$11,940.00	\$7,500.00	\$22,500.00	\$6,500.00	\$19,500.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
R2002190	SANITARY MANHOLE, DROP, 48" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$8,500.00	\$8,500.00	\$5,340.00	\$5,340.00	\$3,000.00	\$3,000.00	\$8,500.00	\$8,500.00
R2002195	SANITARY MANHOLE, DROP, 60" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$10,500.00	\$10,500.00	\$7,675.00	\$7,675.00	\$4,000.00	\$4,000.00	\$10,800.00	\$10,800.00
R2002325	SANITARY SEWER SERVICE, 6"	FOOT	56	\$200.00	\$11,200.00	\$71.00	\$3,976.00	\$45.00	\$2,520.00	\$60.00	\$3,360.00
R2004025	SEWER FLOW CONTROL AND BYPASS PUMPING	L SUM	1	\$20,000.00	\$20,000.00	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$4,800.00	\$4,800.00
R6001020	CLASS D PATCHES, 7 INCH	SQ YD	370	\$56.00	\$20,720.00	\$62.39	\$23,084.30	\$66.00	\$24,420.00	\$60.00	\$22,200.00
RX502132	RELOCATE EXISTING OUTLET BOX	EACH	14	\$150.00	\$2,100.00	\$1,398.00	\$19,572.00	\$1,020.00	\$14,280.00	\$1,398.00	\$19,572.00
RX502133	REMOVE EXISTING OUTLET BOX	EACH	10	\$100.00	\$1,000.00	\$630.00	\$6,300.00	\$1,750.00	\$17,500.00	\$630.00	\$6,300.00
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2	\$1,800.00	\$3,600.00	\$850.00	\$1,700.00	\$1,200.00	\$2,400.00	\$600.00	\$1,200.00
X0323389	STORM SEWER CONNECTION	EACH	3	\$1,000.00	\$3,000.00	\$1,050.00	\$3,150.00	\$1,100.00	\$3,300.00	\$750.00	\$2,250.00
X0324878	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	10	\$1,600.00	\$16,000.00	\$500.00	\$5,000.00	\$1,500.00	\$15,000.00	\$1,500.00	\$15,000.00
X0326275	RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	1	\$3,000.00	\$3,000.00	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
X0326862	STRUCTURES TO BE ADJUSTED	EACH	16	\$325.00	\$5,200.00	\$350.00	\$5,600.00	\$550.00	\$8,800.00	\$350.00	\$5,600.00
X0327762	RAILROAD FLAGGER	LSUM	1	\$2,500.00	\$2,500.00	\$5,489.54	\$5,489.54	\$3,000.00	\$3,000.00	\$700.00	\$700.00
X1200015	VALVE VAULTS TO BE ABANDONED	EACH	1	\$2,000.00	\$2,000.00	\$800.00	\$800.00	\$400.00	\$400.00	\$300.00	\$300.00
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	350	\$30.00	\$10,500.00	\$34.74	\$12,159.00	\$28.00	\$9,800.00	\$30.00	\$10,500.00
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	Ton	212	\$30.00	\$6,360.00	\$48.84	\$10,354.08	\$15.00	\$3,180.00	\$20.00	\$4,240.00
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	1,380	\$30.00	\$41,400.00	\$27.83	\$38,405.40	\$33.00	\$45,540.00	\$42.00	\$57,960.00
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	\$40.00	\$4,000.00	\$27.71	\$2,771.00	\$10.00	\$1,000.00	\$1.00	\$100.00
X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	400	\$15.00	\$6,000.00	\$28.50	\$11,400.00	\$7.00	\$2,800.00	\$28.50	\$11,400.00
X4230800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	SQ YD	750	\$65.00	\$48,750.00	\$46.34	\$34,755.00	\$67.00	\$50,250.00	\$75.00	\$56,250.00
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	4,510	\$15.00	\$67,650.00	\$11.95	\$53,894.50	\$14.00	\$63,140.00	\$30.00	\$135,300.00
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	380	\$12.00	\$4,560.00	\$22.00	\$8,360.00	\$6.00	\$2,280.00	\$15.00	\$5,700.00
X5510100	STORM SEWER REMOVAL	FOOT	211	\$35.00	\$7,385.00	\$20.00	\$4,220.00	\$12.00	\$2,532.00	\$10.00	\$2,110.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$7,410.00	\$7,410.00	\$9,000.00	\$9,000.00	\$8,500.00	\$8,500.00
\$8,920.00	\$8,920.00	\$12,000.00	\$12,000.00	\$10,800.00	\$10,800.00
\$141.00	\$7,896.00	\$60.00	\$3,360.00	\$60.00	\$3,360.00
\$8,500.00	\$8,500.00	\$15,000.00	\$15,000.00	\$4,800.00	\$4,800.00
\$70.00	\$25,900.00	\$60.00	\$22,200.00	\$64.00	\$23,680.00
\$1,600.00	\$22,400.00	\$1,200.00	\$16,800.00	\$1,398.00	\$19,572.00
\$1,000.00	\$10,000.00	\$700.00	\$7,000.00	\$630.00	\$6,300.00
\$850.00	\$1,700.00	\$1,500.00	\$3,000.00	\$600.00	\$1,200.00
\$650.00	\$1,950.00	\$1,500.00	\$4,500.00	\$750.00	\$2,250.00
\$350.00	\$3,500.00	\$600.00	\$6,000.00	\$1,500.00	\$15,000.00
\$1,800.00	\$1,800.00	\$7,500.00	\$7,500.00	\$1,000.00	\$1,000.00
\$440.00	\$7,040.00	\$350.00	\$5,600.00	\$350.00	\$5,600.00
\$35,000.00	\$35,000.00	\$15,000.00	\$15,000.00	\$5,600.00	\$5,600.00
\$480.00	\$480.00	\$400.00	\$400.00	\$300.00	\$300.00
\$46.00	\$16,100.00	\$45.00	\$15,750.00	\$62.00	\$21,700.00
\$28.00	\$5,936.00	\$35.00	\$7,420.00	\$29.00	\$6,148.00
\$42.00	\$57,960.00	\$32.00	\$44,160.00	\$42.00	\$57,960.00
\$56.00	\$5,600.00	\$75.00	\$7,500.00	\$25.00	\$2,500.00
\$12.00	\$4,800.00	\$20.00	\$8,000.00	\$28.50	\$11,400.00
\$69.00	\$51,750.00	\$65.00	\$48,750.00	\$78.00	\$58,500.00
\$13.00	\$58,630.00	\$15.00	\$67,650.00	\$15.60	\$70,356.00
\$8.00	\$3,040.00	\$10.00	\$3,800.00	\$15.00	\$5,700.00
\$8.00	\$1,688.00	\$1.00	\$211.00	\$10.00	\$2,110.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	745	\$15.00	\$11,175.00	\$9.25	\$6,891.25	\$6.00	\$4,470.00	\$10.00	\$7,450.00
X5610706	WATER MAIN REMOVAL, 6"	FOOT	126	\$60.00	\$7,560.00	\$18.50	\$2,331.00	\$10.00	\$1,260.00	\$5.00	\$630.00
X5620035	WATER SERVICE CONNECTION 1 1/2"	EACH	6	\$1,200.00	\$7,200.00	\$950.00	\$5,700.00	\$600.00	\$3,600.00	\$2,200.00	\$13,200.00
X5620040	WATER SERVICE CONNECTION 2"	EACH	6	\$1,200.00	\$7,200.00	\$1,090.00	\$6,540.00	\$700.00	\$4,200.00	\$2,750.00	\$16,500.00
X5620128	ADJUSTING WATER SERVICE LINES	EACH	5	\$750.00	\$3,750.00	\$300.00	\$1,500.00	\$2,200.00	\$11,000.00	\$750.00	\$3,750.00
X5630704	CONNECTION TO EXISTING WATER MAIN 4"	EACH	1	\$250.00	\$250.00	\$750.00	\$750.00	\$1,100.00	\$1,100.00	\$2,000.00	\$2,000.00
X5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	10	\$250.00	\$2,500.00	\$1,275.00	\$12,750.00	\$900.00	\$9,000.00	\$2,400.00	\$24,000.00
X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	6	\$250.00	\$1,500.00	\$1,810.00	\$10,860.00	\$1,000.00	\$6,000.00	\$3,500.00	\$21,000.00
X6020175	DRAINAGE STRUCTURES WITH RESTRICTOR	EACH	1	\$10,000.00	\$10,000.00	\$6,560.00	\$6,560.00	\$5,500.00	\$5,500.00	\$8,200.00	\$8,200.00
X6023508	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	1	\$1,200.00	\$1,200.00	\$1,330.00	\$1,330.00	\$1,100.00	\$1,100.00	\$1,650.00	\$1,650.00
X6024090	MANHOLES, TYPE A, 6'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	3	\$6,500.00	\$19,500.00	\$5,600.00	\$16,800.00	\$4,900.00	\$14,700.00	\$5,800.00	\$17,400.00
X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	4	\$500.00	\$2,000.00	\$425.00	\$1,700.00	\$600.00	\$2,400.00	\$500.00	\$2,000.00
X6029510	CATCH BASINS, TYPE C, WITH SPECIAL FRAME AND GRATE	EACH	1	\$2,200.00	\$2,200.00	\$1,475.00	\$1,475.00	\$2,900.00	\$2,900.00	\$1,950.00	\$1,950.00
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	1,430	\$30.00	\$42,900.00	\$19.38	\$27,713.40	\$45.00	\$64,350.00	\$125.00	\$178,750.00
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	\$25,000.00	\$25,000.00	\$136,610.70	\$136,610.70	\$250,000.00	\$250,000.00	\$188,504.00	\$188,504.00
XX001621	BRICK PAVER REMOVAL	SQ FT	16,748	\$2.00	\$33,496.00	\$2.06	\$34,500.88	\$2.00	\$33,496.00	\$2.00	\$33,496.00
XX007817	BUFFALO BOX REMOVAL AND REPLACEMENT	EACH	5	\$325.00	\$1,625.00	\$770.00	\$3,850.00	\$800.00	\$4,000.00	\$500.00	\$2,500.00
XX007852	PEDESTRIAN BENCH, FURNISH AND INSTALL	EACH	9	\$750.00	\$6,750.00	\$1,921.91	\$17,297.19	\$1,950.00	\$17,550.00	\$2,050.00	\$18,450.00
XX007857	TRASH RECEPTACLE, FURNISH & INSTALL	EACH	10	\$450.00	\$4,500.00	\$1,500.83	\$15,008.30	\$1,700.00	\$17,000.00	\$1,815.00	\$18,150.00
XX008257	STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	52,610	\$12.00	\$631,320.00	\$13.00	\$683,930.00	\$12.00	\$631,320.00	\$11.90	\$626,059.00
XX008260	STAMPED COLORED PORTLAND CEMENT CONCRETE CROSSWALK, 18 INCH	SQ FT	2,352	\$25.00	\$58,800.00	\$21.37	\$50,262.24	\$40.00	\$94,080.00	\$32.50	\$76,440.00
Z0003855	BICYCLE RACKS	EACH	6	\$250.00	\$1,500.00	\$405.83	\$2,434.98	\$550.00	\$3,300.00	\$550.00	\$3,300.00

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$4.00	\$2,980.00	\$10.00	\$7,450.00	\$10.00	\$7,450.00
\$6.00	\$756.00	\$1.00	\$126.00	\$5.00	\$630.00
\$1,120.00	\$6,720.00	\$2,500.00	\$15,000.00	\$2,200.00	\$13,200.00
\$1,460.00	\$8,760.00	\$3,000.00	\$18,000.00	\$2,750.00	\$16,500.00
\$210.00	\$1,050.00	\$450.00	\$2,250.00	\$750.00	\$3,750.00
\$1,860.00	\$1,860.00	\$2,500.00	\$2,500.00	\$2,000.00	\$2,000.00
\$1,860.00	\$18,600.00	\$3,200.00	\$32,000.00	\$2,400.00	\$24,000.00
\$2,690.00	\$16,140.00	\$4,000.00	\$24,000.00	\$3,500.00	\$21,000.00
\$7,960.00	\$7,960.00	\$7,000.00	\$7,000.00	\$8,200.00	\$8,200.00
\$1,610.00	\$1,610.00	\$1,700.00	\$1,700.00	\$1,650.00	\$1,650.00
\$6,710.00	\$20,130.00	\$5,200.00	\$15,600.00	\$5,800.00	\$17,400.00
\$480.00	\$1,920.00	\$450.00	\$1,800.00	\$500.00	\$2,000.00
\$1,920.00	\$1,920.00	\$1,800.00	\$1,800.00	\$1,950.00	\$1,950.00
\$46.60	\$66,638.00	\$40.00	\$57,200.00	\$131.00	\$187,330.00
\$100,000.00	\$100,000.00	\$260,000.00	\$260,000.00	\$85,800.00	\$85,800.00
\$2.00	\$33,496.00	\$1.50	\$25,122.00	\$2.70	\$45,219.60
\$850.00	\$4,250.00	\$500.00	\$2,500.00	\$500.00	\$2,500.00
\$2,210.00	\$19,890.00	\$3,000.00	\$27,000.00	\$1,930.00	\$17,370.00
\$2,000.00	\$20,000.00	\$2,200.00	\$22,000.00	\$1,725.00	\$17,250.00
\$13.60	\$715,496.00	\$16.00	\$841,760.00	\$12.40	\$652,364.00
\$46.00	\$108,192.00	\$35.00	\$82,320.00	\$23.65	\$55,624.80
\$380.00	\$2,280.00	\$1,800.00	\$10,800.00	\$390.00	\$2,340.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	\$20,000.00	\$20,000.00	\$20,450.00	\$20,450.00	\$18,000.00	\$18,000.00	\$11,900.00	\$11,900.00
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	16	\$700.00	\$11,200.00	\$300.00	\$4,800.00	\$330.00	\$5,280.00	\$300.00	\$4,800.00
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	\$8,000.00	\$8,000.00	\$3,500.00	\$3,500.00	\$8,000.00	\$8,000.00	\$1,000.00	\$1,000.00
XX008721	PERMEABLE CLAY PAVERS	SQ FT	4,370	\$10.00	\$43,700.00	\$23.36	\$102,083.20	\$13.00	\$56,810.00	\$5.50	\$24,035.00
				TOTAL:	\$2,133,573.00		\$2,173,987.26		\$2,192,545.00		\$2,515,780.15

Bid Evaluation Detail Report

Martam Construction Inc.		A Lamp Concrete Construction Inc.		Landmark Contractors	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$16,000.00	\$16,000.00	\$20,000.00	\$20,000.00	\$10,250.00	\$10,250.00
\$350.00	\$5,600.00	\$350.00	\$5,600.00	\$300.00	\$4,800.00
\$7,800.00	\$7,800.00	\$7,500.00	\$7,500.00	\$5,000.00	\$5,000.00
\$12.80	\$55,936.00	\$14.00	\$61,180.00	\$15.07	\$65,855.90
\$2,570,591.60		\$2,582,332.25		\$2,616,697.90	



Tabulation of Bids Alternate Bid #2

Local Public Agency: Village of Bensenville Date: 5/4/2017
 County: DuPage Time: 11:00 AM
 Section: 16-00093-00-FP Appropriation: MFT AND GENERAL FUNDS
 Estimate: \$2,233,864.00

Attended By: Wesolowski, Mark

	Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
	Address of Bidder:			
	Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	369	\$35.00	\$12,915.00	\$16.00	\$5,904.00	\$16.00	\$5,904.00	\$15.00	\$5,535.00
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	84	\$45.00	\$3,780.00	\$19.00	\$1,596.00	\$19.00	\$1,596.00	\$25.00	\$2,100.00
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	380	\$40.00	\$15,200.00	\$28.88	\$10,974.40	\$15.00	\$5,700.00	\$30.00	\$11,400.00
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,140	\$2.00	\$2,280.00	\$2.11	\$2,405.40	\$2.00	\$2,280.00	\$1.00	\$1,140.00
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	400	\$7.00	\$2,800.00	\$0.10	\$40.00	\$4.00	\$1,600.00	\$0.10	\$40.00
28000510	INLET FILTERS	EACH	30	\$125.00	\$3,750.00	\$140.00	\$4,200.00	\$10.00	\$300.00	\$25.00	\$750.00
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3,143	\$16.00	\$50,288.00	\$10.92	\$34,321.56	\$8.00	\$25,144.00	\$6.25	\$19,643.75
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUN D	6,940	\$0.50	\$3,470.00	\$0.10	\$694.00	\$0.50	\$3,470.00	\$1.14	\$7,911.60
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUN D	4,570	\$0.50	\$2,285.00	\$0.10	\$457.00	\$0.50	\$2,285.00	\$1.00	\$4,570.00
40600625	LEVELING BINDER (MACHINE METHOD), N50	Ton	30	\$75.00	\$2,250.00	\$122.01	\$3,660.30	\$220.00	\$6,600.00	\$104.97	\$3,149.10
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	Ton	870	\$65.00	\$56,550.00	\$68.70	\$59,769.00	\$71.00	\$61,770.00	\$75.15	\$65,380.50
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	Ton	1,060	\$70.00	\$74,200.00	\$68.99	\$73,129.40	\$85.00	\$90,100.00	\$69.48	\$73,648.80
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	440	\$8.00	\$3,520.00	\$5.67	\$2,494.80	\$7.00	\$3,080.00	\$6.75	\$2,970.00
42400800	DETECTABLE WARNINGS	SQ FT	409	\$26.00	\$10,634.00	\$24.00	\$9,816.00	\$27.00	\$11,043.00	\$15.00	\$6,135.00
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	7,300	\$2.25	\$16,425.00	\$2.10	\$15,330.00	\$8.00	\$58,400.00	\$3.14	\$22,922.00

Landmark Contractors		A Lamp Concrete Construction Inc.		Martam Construction Inc.	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$14.50	\$5,350.50	\$16.50	\$6,088.50	\$20.00	\$7,380.00
\$17.50	\$1,470.00	\$27.50	\$2,310.00	\$24.00	\$2,016.00
\$62.00	\$23,560.00	\$40.00	\$15,200.00	\$46.00	\$17,480.00
\$1.50	\$1,710.00	\$1.00	\$1,140.00	\$2.50	\$2,850.00
\$0.10	\$40.00	\$6.00	\$2,400.00	\$6.00	\$2,400.00
\$140.00	\$4,200.00	\$15.00	\$450.00	\$180.00	\$5,400.00
\$10.90	\$34,258.70	\$8.00	\$25,144.00	\$8.00	\$25,144.00
\$0.01	\$69.40	\$0.01	\$69.40	\$0.50	\$3,470.00
\$0.01	\$45.70	\$0.01	\$45.70	\$0.50	\$2,285.00
\$100.00	\$3,000.00	\$150.00	\$4,500.00	\$240.00	\$7,200.00
\$80.00	\$69,600.00	\$69.00	\$60,030.00	\$76.00	\$66,120.00
\$90.00	\$95,400.00	\$75.00	\$79,500.00	\$89.00	\$94,340.00
\$7.00	\$3,080.00	\$8.00	\$3,520.00	\$6.50	\$2,860.00
\$13.80	\$5,644.20	\$25.00	\$10,225.00	\$26.00	\$10,634.00
\$2.30	\$16,790.00	\$2.75	\$20,075.00	\$10.00	\$73,000.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	700	\$20.00	\$14,000.00	\$16.39	\$11,473.00	\$14.00	\$9,800.00	\$23.00	\$16,100.00
44000300	CURB REMOVAL	FOOT	1,240	\$10.00	\$12,400.00	\$4.16	\$5,158.40	\$6.00	\$7,440.00	\$30.00	\$37,200.00
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,270	\$8.00	\$26,160.00	\$5.18	\$16,938.60	\$6.00	\$19,620.00	\$30.00	\$98,100.00
44000600	SIDEWALK REMOVAL	SQ FT	26,160	\$3.00	\$78,480.00	\$0.92	\$24,067.20	\$1.50	\$39,240.00	\$2.00	\$52,320.00
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	348	\$52.00	\$18,096.00	\$42.00	\$14,616.00	\$57.00	\$19,836.00	\$55.00	\$19,140.00
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	93	\$58.00	\$5,394.00	\$45.00	\$4,185.00	\$58.00	\$5,394.00	\$60.00	\$5,580.00
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	37	\$65.00	\$2,405.00	\$49.00	\$1,813.00	\$62.00	\$2,294.00	\$62.00	\$2,294.00
550A2580	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 30"	FOOT	508	\$125.00	\$63,500.00	\$71.00	\$36,068.00	\$75.00	\$38,100.00	\$98.00	\$49,784.00
56106300	ADJUSTING WATER MAIN 6"	FOOT	32	\$125.00	\$4,000.00	\$135.00	\$4,320.00	\$80.00	\$2,560.00	\$215.00	\$6,880.00
56106600	ADJUSTING WATER MAIN 12"	FOOT	152	\$250.00	\$38,000.00	\$141.00	\$21,432.00	\$70.00	\$10,640.00	\$250.00	\$38,000.00
56200500	WATER SERVICE LINE 1 1/2"	FOOT	135	\$35.00	\$4,725.00	\$55.00	\$7,425.00	\$37.00	\$4,995.00	\$32.00	\$4,320.00
56200700	WATER SERVICE LINE 2"	FOOT	135	\$65.00	\$8,775.00	\$59.00	\$7,965.00	\$39.00	\$5,265.00	\$40.00	\$5,400.00
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1	\$750.00	\$750.00	\$700.00	\$700.00	\$800.00	\$800.00	\$800.00	\$800.00
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	2	\$4,500.00	\$9,000.00	\$5,500.00	\$11,000.00	\$5,900.00	\$11,800.00	\$5,500.00	\$11,000.00
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	525	\$30.00	\$15,750.00	\$19.45	\$10,211.25	\$18.00	\$9,450.00	\$34.00	\$17,850.00
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	\$2,600.00	\$2,600.00	\$2,640.00	\$2,640.00	\$2,800.00	\$2,800.00	\$3,600.00	\$3,600.00
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	\$2,600.00	\$2,600.00	\$2,745.00	\$2,745.00	\$2,800.00	\$2,800.00	\$3,800.00	\$3,800.00
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	\$2,600.00	\$2,600.00	\$1,365.00	\$1,365.00	\$2,800.00	\$2,800.00	\$1,800.00	\$1,800.00
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	\$3,000.00	\$15,000.00	\$2,625.00	\$13,125.00	\$2,700.00	\$13,500.00	\$3,800.00	\$19,000.00
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$4,000.00	\$8,000.00	\$3,385.00	\$6,770.00	\$3,500.00	\$7,000.00	\$4,800.00	\$9,600.00

Bid Evaluation Detail Report

Landmark Contractors		A Lamp Concrete Construction Inc.		Martam Construction Inc.	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$12.35	\$8,645.00	\$15.00	\$10,500.00	\$16.00	\$11,200.00
\$9.60	\$11,904.00	\$3.00	\$3,720.00	\$8.00	\$9,920.00
\$11.85	\$38,749.50	\$3.00	\$9,810.00	\$8.00	\$26,160.00
\$1.64	\$42,902.40	\$1.00	\$26,160.00	\$1.50	\$39,240.00
\$55.00	\$19,140.00	\$80.00	\$27,840.00	\$66.00	\$22,968.00
\$60.00	\$5,580.00	\$90.00	\$8,370.00	\$86.00	\$7,998.00
\$62.00	\$2,294.00	\$105.00	\$3,885.00	\$91.00	\$3,367.00
\$98.00	\$49,784.00	\$155.00	\$78,740.00	\$118.00	\$59,944.00
\$215.00	\$6,880.00	\$95.00	\$3,040.00	\$181.00	\$5,792.00
\$250.00	\$38,000.00	\$150.00	\$22,800.00	\$221.00	\$33,592.00
\$32.00	\$4,320.00	\$75.00	\$10,125.00	\$86.00	\$11,610.00
\$40.00	\$5,400.00	\$80.00	\$10,800.00	\$104.00	\$14,040.00
\$800.00	\$800.00	\$1,200.00	\$1,200.00	\$8,550.00	\$8,550.00
\$5,500.00	\$11,000.00	\$7,000.00	\$14,000.00	\$4,890.00	\$9,780.00
\$34.00	\$17,850.00	\$35.00	\$18,375.00	\$17.00	\$8,925.00
\$3,600.00	\$3,600.00	\$3,200.00	\$3,200.00	\$3,860.00	\$3,860.00
\$3,800.00	\$3,800.00	\$3,200.00	\$3,200.00	\$4,160.00	\$4,160.00
\$1,800.00	\$1,800.00	\$1,800.00	\$1,800.00	\$2,280.00	\$2,280.00
\$3,800.00	\$19,000.00	\$3,000.00	\$15,000.00	\$3,610.00	\$18,050.00
\$4,800.00	\$9,600.00	\$4,000.00	\$8,000.00	\$5,330.00	\$10,660.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$6,000.00	\$6,000.00	\$5,175.00	\$5,175.00	\$5,300.00	\$5,300.00	\$5,600.00	\$5,600.00
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	6	\$1,200.00	\$7,200.00	\$1,160.00	\$6,960.00	\$1,100.00	\$6,600.00	\$1,400.00	\$8,400.00
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	2	\$1,200.00	\$2,400.00	\$1,274.00	\$2,548.00	\$1,100.00	\$2,200.00	\$1,600.00	\$3,200.00
60600605	CONCRETE CURB, TYPE B	FOOT	140	\$20.00	\$2,800.00	\$17.18	\$2,405.20	\$25.00	\$3,500.00	\$26.25	\$3,675.00
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	3,520	\$20.00	\$70,400.00	\$18.87	\$66,422.40	\$23.00	\$80,960.00	\$28.75	\$101,200.00
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,130	\$50.00	\$106,500.00	\$68.32	\$145,521.60	\$20.00	\$42,600.00	\$1.00	\$2,130.00
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	159	\$5.00	\$795.00	\$4.00	\$636.00	\$2.00	\$318.00	\$4.00	\$636.00
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,198	\$2.00	\$10,396.00	\$0.75	\$3,898.50	\$1.50	\$7,797.00	\$0.75	\$3,898.50
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	452	\$3.00	\$1,356.00	\$1.00	\$452.00	\$5.00	\$2,260.00	\$1.00	\$452.00
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	267	\$12.00	\$3,204.00	\$4.00	\$1,068.00	\$9.00	\$2,403.00	\$4.00	\$1,068.00
R1001012	6" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	\$4,500.00	\$18,000.00	\$4,059.00	\$16,236.00	\$3,800.00	\$15,200.00	\$5,200.00	\$20,800.00
R1001016	8" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$5,500.00	\$11,000.00	\$4,733.00	\$9,466.00	\$4,200.00	\$8,400.00	\$5,800.00	\$11,600.00
R1001025	12" VALVE AND VALVE VAULT, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	\$7,000.00	\$14,000.00	\$5,840.00	\$11,680.00	\$5,200.00	\$10,400.00	\$6,800.00	\$13,600.00
R1001470	VALVE VAULTS TO BE REMOVED	EACH	3	\$1,000.00	\$3,000.00	\$575.00	\$1,725.00	\$500.00	\$1,500.00	\$350.00	\$1,050.00
R1002077	6" PVC WATER MAIN	FOOT	124	\$50.00	\$6,200.00	\$76.00	\$9,424.00	\$75.00	\$9,300.00	\$95.00	\$11,780.00
R1002079	8" PVC WATER MAIN	FOOT	353	\$75.00	\$26,475.00	\$70.00	\$24,710.00	\$79.00	\$27,887.00	\$110.00	\$38,830.00
R1002225	6" CUT & CAP	EACH	6	\$1,500.00	\$9,000.00	\$425.00	\$2,550.00	\$600.00	\$3,600.00	\$750.00	\$4,500.00
R2001355	PVC SANITARY SEWER, 12"	FOOT	36	\$45.00	\$1,620.00	\$68.00	\$2,448.00	\$145.00	\$5,220.00	\$140.00	\$5,040.00
R2001360	PVC SANITARY SEWER, 15"	FOOT	19	\$50.00	\$950.00	\$119.00	\$2,261.00	\$150.00	\$2,850.00	\$165.00	\$3,135.00
R2001955	SANITARY SEWER TO BE ABANDONED, 15"	FOOT	805	\$15.00	\$12,075.00	\$19.00	\$15,295.00	\$3.00	\$2,415.00	\$12.00	\$9,660.00
R2002020	CCDD SAMPLING	L SUM	1	\$10,000.00	\$10,000.00	\$13,000.00	\$13,000.00	\$6,000.00	\$6,000.00	\$1.00	\$1.00
R2002160	SANITARY MANHOLE, 48" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	\$6,250.00	\$18,750.00	\$4,160.00	\$12,480.00	\$3,300.00	\$9,900.00	\$6,500.00	\$19,500.00

Bid Evaluation Detail Report

Landmark Contractors		A Lamp Concrete Construction Inc.		Martam Construction Inc.	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$5,600.00	\$5,600.00	\$7,500.00	\$7,500.00	\$6,710.00	\$6,710.00
\$1,400.00	\$8,400.00	\$1,700.00	\$10,200.00	\$1,350.00	\$8,100.00
\$1,600.00	\$3,200.00	\$1,700.00	\$3,400.00	\$1,500.00	\$3,000.00
\$32.50	\$4,550.00	\$25.00	\$3,500.00	\$24.00	\$3,360.00
\$34.00	\$119,680.00	\$20.00	\$70,400.00	\$24.00	\$84,480.00
\$104.00	\$221,520.00	\$10.00	\$21,300.00	\$97.00	\$206,610.00
\$4.00	\$636.00	\$4.40	\$699.60	\$4.20	\$667.80
\$0.75	\$3,898.50	\$2.20	\$11,435.60	\$1.00	\$5,198.00
\$1.00	\$452.00	\$3.30	\$1,491.60	\$1.50	\$678.00
\$4.00	\$1,068.00	\$5.50	\$1,468.50	\$4.25	\$1,134.75
\$5,200.00	\$20,800.00	\$4,000.00	\$16,000.00	\$6,410.00	\$25,640.00
\$5,800.00	\$11,600.00	\$4,500.00	\$9,000.00	\$7,110.00	\$14,220.00
\$6,800.00	\$13,600.00	\$6,000.00	\$12,000.00	\$8,860.00	\$17,720.00
\$350.00	\$1,050.00	\$450.00	\$1,350.00	\$400.00	\$1,200.00
\$95.00	\$11,780.00	\$80.00	\$9,920.00	\$91.00	\$11,284.00
\$110.00	\$38,830.00	\$90.00	\$31,770.00	\$98.00	\$34,594.00
\$750.00	\$4,500.00	\$1,500.00	\$9,000.00	\$2,410.00	\$14,460.00
\$140.00	\$5,040.00	\$125.00	\$4,500.00	\$188.00	\$6,768.00
\$165.00	\$3,135.00	\$135.00	\$2,565.00	\$241.00	\$4,579.00
\$12.00	\$9,660.00	\$20.00	\$16,100.00	\$4.00	\$3,220.00
\$1,250.00	\$1,250.00	\$5,000.00	\$5,000.00	\$5,500.00	\$5,500.00
\$6,500.00	\$19,500.00	\$7,500.00	\$22,500.00	\$3,980.00	\$11,940.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
R2002190	SANITARY MANHOLE, DROP, 48" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$8,500.00	\$8,500.00	\$5,340.00	\$5,340.00	\$3,000.00	\$3,000.00	\$8,500.00	\$8,500.00
R2002195	SANITARY MANHOLE, DROP, 60" DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	\$10,500.00	\$10,500.00	\$7,675.00	\$7,675.00	\$4,000.00	\$4,000.00	\$10,800.00	\$10,800.00
R2002325	SANITARY SEWER SERVICE, 6"	FOOT	56	\$200.00	\$11,200.00	\$71.00	\$3,976.00	\$45.00	\$2,520.00	\$60.00	\$3,360.00
R2004025	SEWER FLOW CONTROL AND BYPASS PUMPING	L SUM	1	\$20,000.00	\$20,000.00	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$4,800.00	\$4,800.00
R6001020	CLASS D PATCHES, 7 INCH	SQ YD	370	\$56.00	\$20,720.00	\$62.39	\$23,084.30	\$65.00	\$24,050.00	\$49.82	\$18,433.40
RX502132	RELOCATE EXISTING OUTLET BOX	EACH	14	\$150.00	\$2,100.00	\$1,398.00	\$19,572.00	\$1,020.00	\$14,280.00	\$1,398.00	\$19,572.00
RX502133	REMOVE EXISTING OUTLET BOX	EACH	10	\$100.00	\$1,000.00	\$630.00	\$6,300.00	\$1,750.00	\$17,500.00	\$630.00	\$6,300.00
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2	\$1,800.00	\$3,600.00	\$850.00	\$1,700.00	\$1,200.00	\$2,400.00	\$600.00	\$1,200.00
X0323389	STORM SEWER CONNECTION	EACH	3	\$1,000.00	\$3,000.00	\$1,050.00	\$3,150.00	\$1,100.00	\$3,300.00	\$750.00	\$2,250.00
X0324878	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	10	\$1,600.00	\$16,000.00	\$500.00	\$5,000.00	\$1,500.00	\$15,000.00	\$1,500.00	\$15,000.00
X0326275	RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	1	\$3,000.00	\$3,000.00	\$1,000.00	\$1,000.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
X0326862	STRUCTURES TO BE ADJUSTED	EACH	50	\$325.00	\$16,250.00	\$350.00	\$17,500.00	\$550.00	\$27,500.00	\$350.00	\$17,500.00
X0327762	RAILROAD FLAGGER	LSUM	1	\$2,500.00	\$2,500.00	\$5,489.54	\$5,489.54	\$3,000.00	\$3,000.00	\$700.00	\$700.00
X1200015	VALVE VAULTS TO BE ABANDONED	EACH	1	\$2,000.00	\$2,000.00	\$800.00	\$800.00	\$400.00	\$400.00	\$300.00	\$300.00
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	216	\$30.00	\$6,480.00	\$34.74	\$7,503.84	\$28.00	\$6,048.00	\$30.00	\$6,480.00
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	Ton	212	\$30.00	\$6,360.00	\$48.84	\$10,354.08	\$15.00	\$3,180.00	\$20.00	\$4,240.00
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	1,380	\$30.00	\$41,400.00	\$27.83	\$38,405.40	\$33.00	\$45,540.00	\$42.00	\$57,960.00
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	\$40.00	\$4,000.00	\$27.71	\$2,771.00	\$10.00	\$1,000.00	\$1.00	\$100.00
X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	400	\$15.00	\$6,000.00	\$28.50	\$11,400.00	\$7.00	\$2,800.00	\$28.50	\$11,400.00
X4230800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	SQ YD	750	\$65.00	\$48,750.00	\$46.34	\$34,755.00	\$67.00	\$50,250.00	\$75.00	\$56,250.00
X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	4,540	\$15.00	\$68,100.00	\$11.95	\$54,253.00	\$14.00	\$63,560.00	\$30.00	\$136,200.00
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	380	\$12.00	\$4,560.00	\$22.00	\$8,360.00	\$6.00	\$2,280.00	\$15.00	\$5,700.00
X5510100	STORM SEWER REMOVAL	FOOT	211	\$35.00	\$7,385.00	\$20.00	\$4,220.00	\$12.00	\$2,532.00	\$10.00	\$2,110.00

Bid Evaluation Detail Report

Landmark Contractors		A Lamp Concrete Construction Inc.		Martam Construction Inc.	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$8,500.00	\$8,500.00	\$9,000.00	\$9,000.00	\$7,410.00	\$7,410.00
\$10,800.00	\$10,800.00	\$12,000.00	\$12,000.00	\$8,920.00	\$8,920.00
\$60.00	\$3,360.00	\$60.00	\$3,360.00	\$141.00	\$7,896.00
\$4,800.00	\$4,800.00	\$15,000.00	\$15,000.00	\$8,500.00	\$8,500.00
\$64.00	\$23,680.00	\$60.00	\$22,200.00	\$70.00	\$25,900.00
\$1,398.00	\$19,572.00	\$1,200.00	\$16,800.00	\$1,600.00	\$22,400.00
\$630.00	\$6,300.00	\$700.00	\$7,000.00	\$1,000.00	\$10,000.00
\$600.00	\$1,200.00	\$1,500.00	\$3,000.00	\$850.00	\$1,700.00
\$750.00	\$2,250.00	\$1,500.00	\$4,500.00	\$650.00	\$1,950.00
\$1,500.00	\$15,000.00	\$600.00	\$6,000.00	\$350.00	\$3,500.00
\$1,000.00	\$1,000.00	\$7,500.00	\$7,500.00	\$1,800.00	\$1,800.00
\$350.00	\$17,500.00	\$350.00	\$17,500.00	\$440.00	\$22,000.00
\$5,600.00	\$5,600.00	\$15,000.00	\$15,000.00	\$35,000.00	\$35,000.00
\$300.00	\$300.00	\$400.00	\$400.00	\$480.00	\$480.00
\$62.00	\$13,392.00	\$45.00	\$9,720.00	\$46.00	\$9,936.00
\$29.00	\$6,148.00	\$35.00	\$7,420.00	\$28.00	\$5,936.00
\$42.00	\$57,960.00	\$32.00	\$44,160.00	\$42.00	\$57,960.00
\$25.00	\$2,500.00	\$75.00	\$7,500.00	\$56.00	\$5,600.00
\$28.50	\$11,400.00	\$20.00	\$8,000.00	\$12.00	\$4,800.00
\$78.00	\$58,500.00	\$65.00	\$48,750.00	\$69.00	\$51,750.00
\$15.60	\$70,824.00	\$15.00	\$68,100.00	\$13.00	\$59,020.00
\$15.00	\$5,700.00	\$10.00	\$3,800.00	\$8.00	\$3,040.00
\$10.00	\$2,110.00	\$1.00	\$211.00	\$8.00	\$1,688.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	745	\$15.00	\$11,175.00	\$9.25	\$6,891.25	\$6.00	\$4,470.00	\$10.00	\$7,450.00
X5610706	WATER MAIN REMOVAL, 6"	FOOT	126	\$60.00	\$7,560.00	\$18.50	\$2,331.00	\$10.00	\$1,260.00	\$5.00	\$630.00
X5620035	WATER SERVICE CONNECTION 1 1/2"	EACH	6	\$1,200.00	\$7,200.00	\$950.00	\$5,700.00	\$600.00	\$3,600.00	\$2,200.00	\$13,200.00
X5620040	WATER SERVICE CONNECTION 2"	EACH	6	\$1,200.00	\$7,200.00	\$1,090.00	\$6,540.00	\$700.00	\$4,200.00	\$2,750.00	\$16,500.00
X5620128	ADJUSTING WATER SERVICE LINES	EACH	5	\$750.00	\$3,750.00	\$300.00	\$1,500.00	\$2,200.00	\$11,000.00	\$750.00	\$3,750.00
X5630704	CONNECTION TO EXISTING WATER MAIN 4"	EACH	1	\$250.00	\$250.00	\$750.00	\$750.00	\$1,100.00	\$1,100.00	\$2,000.00	\$2,000.00
X5630706	CONNECTION TO EXISTING WATER MAIN 6"	EACH	10	\$250.00	\$2,500.00	\$1,275.00	\$12,750.00	\$900.00	\$9,000.00	\$2,400.00	\$24,000.00
X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	6	\$250.00	\$1,500.00	\$1,810.00	\$10,860.00	\$1,000.00	\$6,000.00	\$3,500.00	\$21,000.00
X6020175	DRAINAGE STRUCTURES WITH RESTRICTOR	EACH	1	\$10,000.00	\$10,000.00	\$6,560.00	\$6,560.00	\$5,500.00	\$5,500.00	\$8,200.00	\$8,200.00
X6023508	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	1	\$1,200.00	\$1,200.00	\$1,330.00	\$1,330.00	\$1,100.00	\$1,100.00	\$1,650.00	\$1,650.00
X6024090	MANHOLES, TYPE A, 6'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	3	\$6,500.00	\$19,500.00	\$5,600.00	\$16,800.00	\$4,900.00	\$14,700.00	\$5,800.00	\$17,400.00
X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	4	\$500.00	\$2,000.00	\$425.00	\$1,700.00	\$600.00	\$2,400.00	\$500.00	\$2,000.00
X6029510	CATCH BASINS, TYPE C, WITH SPECIAL FRAME AND GRATE	EACH	1	\$2,200.00	\$2,200.00	\$1,475.00	\$1,475.00	\$2,900.00	\$2,900.00	\$1,950.00	\$1,950.00
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	1,430	\$30.00	\$42,900.00	\$19.38	\$27,713.40	\$45.00	\$64,350.00	\$125.00	\$178,750.00
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	\$25,000.00	\$25,000.00	\$132,047.73	\$132,047.73	\$250,000.00	\$250,000.00	\$189,944.00	\$189,944.00
XX001621	BRICK PAVER REMOVAL	SQ FT	16,748	\$2.00	\$33,496.00	\$2.06	\$34,500.88	\$2.00	\$33,496.00	\$2.00	\$33,496.00
XX007817	BUFFALO BOX REMOVAL AND REPLACEMENT	EACH	1	\$325.00	\$325.00	\$770.00	\$770.00	\$800.00	\$800.00	\$500.00	\$500.00
XX007852	PEDESTRIAN BENCH, FURNISH AND INSTALL	EACH	9	\$750.00	\$6,750.00	\$1,921.91	\$17,297.19	\$1,950.00	\$17,550.00	\$2,050.00	\$18,450.00
XX007857	TRASH RECEPTACLE, FURNISH & INSTALL	EACH	1	\$450.00	\$450.00	\$1,500.82	\$1,500.82	\$1,700.00	\$1,700.00	\$1,815.00	\$1,815.00
XX008257	STAMPED COLORED PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	54,800	\$12.00	\$657,600.00	\$13.00	\$712,400.00	\$12.00	\$657,600.00	\$11.90	\$652,120.00
XX008260	STAMPED COLORED PORTLAND CEMENT CONCRETE CROSSWALK, 18 INCH	SQ FT	2,352	\$25.00	\$58,800.00	\$21.37	\$50,262.24	\$40.00	\$94,080.00	\$32.50	\$76,440.00
Z0003855	BICYCLE RACKS	EACH	6	\$250.00	\$1,500.00	\$405.83	\$2,434.98	\$550.00	\$3,300.00	\$550.00	\$3,300.00

Bid Evaluation Detail Report

Landmark Contractors		A Lamp Concrete Construction Inc.		Martam Construction Inc.	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$10.00	\$7,450.00	\$10.00	\$7,450.00	\$4.00	\$2,980.00
\$5.00	\$630.00	\$1.00	\$126.00	\$6.00	\$756.00
\$2,200.00	\$13,200.00	\$2,500.00	\$15,000.00	\$1,120.00	\$6,720.00
\$2,750.00	\$16,500.00	\$3,000.00	\$18,000.00	\$1,460.00	\$8,760.00
\$750.00	\$3,750.00	\$450.00	\$2,250.00	\$210.00	\$1,050.00
\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$1,860.00	\$1,860.00
\$2,400.00	\$24,000.00	\$3,200.00	\$32,000.00	\$1,860.00	\$18,600.00
\$3,500.00	\$21,000.00	\$4,000.00	\$24,000.00	\$2,690.00	\$16,140.00
\$8,200.00	\$8,200.00	\$7,000.00	\$7,000.00	\$7,960.00	\$7,960.00
\$1,650.00	\$1,650.00	\$1,700.00	\$1,700.00	\$1,610.00	\$1,610.00
\$5,800.00	\$17,400.00	\$5,200.00	\$15,600.00	\$6,710.00	\$20,130.00
\$500.00	\$2,000.00	\$450.00	\$1,800.00	\$480.00	\$1,920.00
\$1,950.00	\$1,950.00	\$1,800.00	\$1,800.00	\$1,920.00	\$1,920.00
\$131.00	\$187,330.00	\$40.00	\$57,200.00	\$46.60	\$66,638.00
\$85,800.00	\$85,800.00	\$252,000.00	\$252,000.00	\$104,000.00	\$104,000.00
\$2.70	\$45,219.60	\$1.50	\$25,122.00	\$2.00	\$33,496.00
\$500.00	\$500.00	\$500.00	\$500.00	\$850.00	\$850.00
\$1,930.00	\$17,370.00	\$3,000.00	\$27,000.00	\$2,210.00	\$19,890.00
\$1,725.00	\$1,725.00	\$2,200.00	\$2,200.00	\$2,000.00	\$2,000.00
\$12.40	\$679,520.00	\$16.00	\$876,800.00	\$13.60	\$745,280.00
\$23.65	\$55,624.80	\$35.00	\$82,320.00	\$46.00	\$108,192.00
\$390.00	\$2,340.00	\$1,800.00	\$10,800.00	\$380.00	\$2,280.00

Name of Bidder:	R.W. Dunteman Company	Copenhaver Construction Inc.	Alliance Contractors Inc.
Address of Bidder:			
Approved Engineer's Estimate			

Item No.	Item Description	Unit	QTY	Unit Price	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	\$20,000.00	\$20,000.00	\$20,450.00	\$20,450.00	\$18,000.00	\$18,000.00	\$11,900.00	\$11,900.00
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	16	\$700.00	\$11,200.00	\$300.00	\$4,800.00	\$330.00	\$5,280.00	\$300.00	\$4,800.00
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	\$8,000.00	\$8,000.00	\$3,500.00	\$3,500.00	\$8,000.00	\$8,000.00	\$1,000.00	\$1,000.00
XX008721	PERMEABLE CLAY PAVERS	SQ FT	4,370	\$10.00	\$43,700.00	\$22.67	\$99,067.90	\$13.00	\$56,810.00	\$5.50	\$24,035.00
				TOTAL:	\$2,233,864.00		\$2,243,212.56		\$2,329,852.00		\$2,606,554.65

Bid Evaluation Detail Report

Landmark Contractors		A Lamp Concrete Construction Inc.		Martam Construction Inc.	
Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
\$10,250.00	\$10,250.00	\$20,000.00	\$20,000.00	\$16,000.00	\$16,000.00
\$300.00	\$4,800.00	\$350.00	\$5,600.00	\$350.00	\$5,600.00
\$5,000.00	\$5,000.00	\$7,500.00	\$7,500.00	\$7,800.00	\$7,800.00
\$7.00	\$30,590.00	\$14.00	\$61,180.00	\$12.80	\$55,936.00
\$2,669,212.30		\$2,676,731.90		\$2,721,292.55	



TYPE:

Resolution

SUBMITTED BY:

Joe Caracci

DEPARTMENT:

Public Works

DATE:

May 8, 2017

DESCRIPTION:

Consideration of a Resolution Authorizing the Execution of an Engineering Services Agreement with Civiltech Engineering, Inc. for the Downtown Streetscape Project – North Half in the not to exceed amount of \$160,759.00

SUPPORTS THE FOLLOWING APPLICABLE VILLAGE GOALS:

<input checked="" type="checkbox"/>	Financially Sound Village	<input checked="" type="checkbox"/>	Enrich the lives of Residents
<input checked="" type="checkbox"/>	Quality Customer Oriented Services	<input checked="" type="checkbox"/>	Major Business/Corporate Center
<input checked="" type="checkbox"/>	Safe and Beautiful Village	<input checked="" type="checkbox"/>	Vibrant Major Corridors

COMMITTEE ACTION:

I&E

DATE:

May 16, 2017

BACKGROUND:

Based on the Pavement Condition Index (PCI) report conducted in 2014, Addison St through downtown Bensenville has been identified as one of the streets needing to be reconstructed. The PCI rating for this segment between Main St and Roosevelt Rd is 28. One of the strategic goals of the Village Board is to also improve the aesthetics of the downtown Bensenville. Phase I to be constructed in 2017 will consist of north of the railroad tracks (Addison and Center St from Main to Roosevelt; Main St from York to west of Addison St and minor aesthetic improvements along York Rd from Roosevelt to Main). Addison St/Center St from Main St to Roosevelt Rd will be reconstructed with a new Hot-Mix Asphalt pavement, stamped sidewalk, C&G, driveway aprons, watermain replacement on Addison St along with new services, 30-inch storm sewer as identified in the master plan along Center St, striping and landscape restoration. Main St and York Rd will receive aesthetic upgrades including but not limited to stamped sidewalk, benches, planter boxes, stamped cross walks, etc.

KEY ISSUES:

In 2011, the Village advertised for and selected through a Qualification Based System (QBS) approach a list of engineering firms to provide design as well as construction engineering services for the upcoming years. Civiltech Engineering Inc (Civiltech) is one of the short listed firms to provide construction-engineering services. Civiltech performed construction-engineering services on the all NIBD SSA project a few years ago. One of the key component of that project was the coordination with the businesses during construction, which was handled extremely well. Staff feels that will be a key component for the Downtown improvements as well. The Village staff feels very confident of hiring them for the upcoming construction project due to their excellent professional skills, knowledge, and familiarity of the similar projects. The project team of Civiltech and Village staff has worked well together in the past. The staff recommends continuing with this team.

The proposed assignment scope includes on-site inspections, review of project layout, construction documentation, material testing and preparation of record drawings. The material testing required for the project will be performed by Midland Standard Testing as a sub-consultant, and includes all sub-grade, concrete and asphalt pavement assessments and observations.

Civiltech's original proposed work effort and fee totals \$171,980, of which, about \$16,000 is included for material testing. After negotiations, the fees have been reduced to \$160,759.00. This not-to-exceed fee equates to 7.5% of the Engineer's estimated cost for the project. Construction engineering costs typically fall in the 7-10% range.

The scope of the project has increased since the budget with additional underground utility and expanded streetscape. The current engineer's estimate is \$2,133,000.00. The added scope includes storm sewer on Center St as identified in the stormwater master plan, sanitary and watermain work along Roosevelt, streetscape along north side of Metra platform, stamped cross walks, additional curb for the on street parking and permeable pavers.

ALTERNATIVES:

Discretion of the Committee

RECOMMENDATION:

Staff recommends approval of the engineering service agreement

BUDGET IMPACT:

In FY 2017, a total of \$132,900.00 has been budgeted for the construction engineering services, \$118,900 of which is funded through MFT while the \$14,000 is water-sewer funds.

ACTION REQUIRED:

Motion to consider a Resolution Authorizing the Execution of an Engineering Services Agreement with Civiltech Engineering, Inc. for the Downtown Streetscape Project – North Half in the not to exceed amount of \$160,759.00

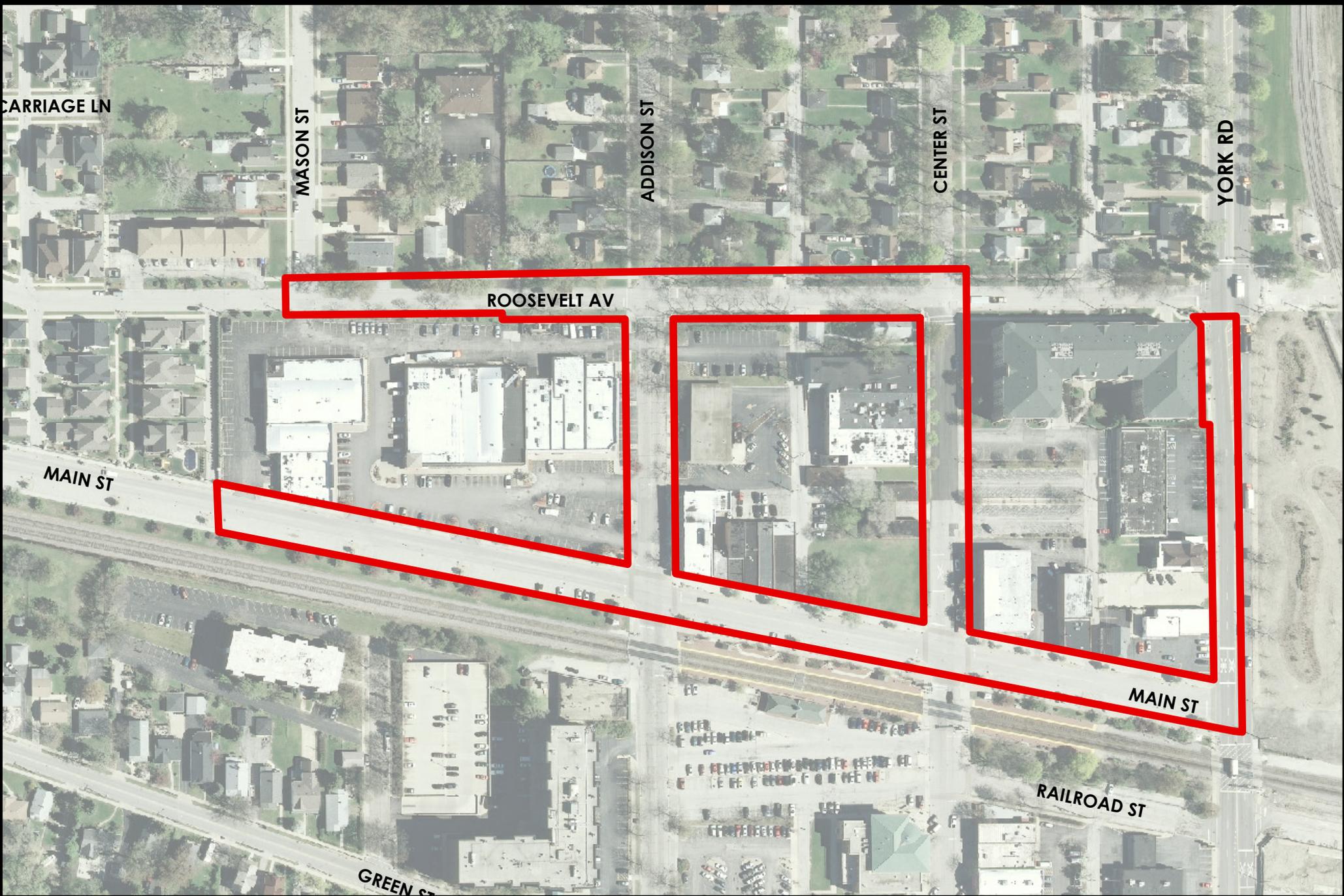
ATTACHMENTS:

Description	Upload Date	Type
Original Proposal	5/8/2017	Backup Material
Revised Proposal	5/8/2017	Backup Material
Location Map	5/8/2017	Backup Material
Resolution	5/8/2017	Resolution Letter



Village of Bensenville

Downtown Streetscape Phase I



RESOLUTION NO.

AUTHORIZING THE EXECUTION OF AN ENGINEERING SERVICES AGREEMENT WITH CIVILTECH ENGINEERING INC FOR THE DOWNTOWN STREETSCAPE PROJECT – NORTH HALF IN THE NOT-TO-EXCEED AMOUNT OF \$160,759.00

WHEREAS the Village Board has identified beautification of downtown Bensenville as one of its strategic goals; and

WHEREAS the segment of Addison St through downtown Bensenville has received a Pavement Condition Index rating of twenty eight (28); and

WHEREAS the recommended repair method for such rating is reconstruction; and

WHEREAS staff has also identified the need for underground utility improvements within the project limits; and

WHEREAS the Village has an approved short list of firms to provide construction engineering services; and

WHEREAS Civiltech Engineering Inc is one of the short listed firms; and

WHEREAS Civiltech has performed similar services for the North Industrial Business District SSA Project, and

WHEREAS the Village requested a proposal from Civiltech; and

WHEREAS after negotiations the total construction engineering cost proposal received is in the not-to-exceed amount of \$160,759.00; and

WHEREAS the Village feels confident retaining the services of Civiltech due to their knowledge and familiarity with similar projects; and

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

SECTION ONE: The recitals set forth above are incorporated herein and made a part hereof.

SECTION TWO: The Village President and Board of Trustees authorizes and approves the attached Resolution authorizing an engineering services agreement with Civiltech Engineering Inc for the Downtown Streetscape Project – North Half in the not to exceed amount of \$160,759.00.

SECTION THREE: The Village Manger is hereby authorized and directed to execute on behalf of the Village of Bensenville, and the Deputy Clerk is hereby authorized to attest thereto, the necessary paperwork.

SECTION FOUR: This Resolution shall take effect immediately upon its passage and approval as provided by law.

APPROVED:

Frank DeSimone, Village President

ATTEST:

Nancy Quinn, Village Clerk

AYES: _____

NAYS: _____

ABSENT: _____

Municipality Village of Bensenville	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary/Construction Engineering Services Agreement For Motor Fuel Tax Funds	C O N S U L T A N T	Name Civiltech Engineering, Inc.
Township				Address Two Pierce Place
County DuPage				City Itasca
Section 16-00093-00-FP				State Illinois, 60143

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above PROJECT. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director Division of Highways, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LA in immediate charge of the engineering details of the PROJECT
Contractor	Company or Companies to which the construction contract was awarded

Section Description

Name Downtown Area Imprvt Route Main St. Length 0.65 miles Structure No. _____

Termini North Half: W. Main St. N. Addison St., N. Central St., and York Rd.

Description

The work consists of bituminous removal and resurfacing with sidewalk removal, brick paver installation, storm and sanitary sewer, watermain, PCC curb & gutter, ADA sidewalk, pavement markings, and all incidental and collateral work necessary to complete the improvement.

Agreement Provisions

The Engineer Agrees,

1. To perform or be responsible for the performance of the following engineering services for the LA in connection with the proposed improvement herein before described, and checked below:
 - a. Make such detailed surveys as are necessary for the preparation of detailed roadway plans.
 - b. Make stream and flood plain hydraulic surveys and gather high water data and flood histories for the preparation of detailed bridge plans.
 - c. Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
 - d. Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.

- e. Prepare Army Corps of Engineers Permit, Division of Water Resources Permit, Bridge waterway sketch and/or Channel Change sketch, Utility plan and locations and Railroad Crossing work agreements.
- f. Prepare Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.

NOTE Four copies to be submitted to the Regional Engineer

- g. Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with five (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
- h. Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
- i. Assist the LA in the receipt and evaluation of proposals and the awarding of the construction contract.
- j. Furnish or cause to be furnished:
 - (1) Proportioning and testing of concrete mixtures in accordance with the "Manual of Instructions for Concrete Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT and promptly submit reports on forms prepared by said Bureau.
 - (2) Proportioning and testing of bituminous mixtures (including extracting test) in accordance with the "Manual of Instructions for Bituminous Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT, and promptly submit reports on forms prepared by said Bureau.
 - (3) All compaction tests as required by the specifications and report promptly the same on forms prepared by the Bureau of Materials and Physical Research.
 - (4) Quality and sieve analyses on local aggregates to see that they comply with the specifications contained in the contract.
 - (5) Inspection of all materials when inspection is not provided at the sources by the Bureau of Materials and Physical Research, of the DEPARTMENT and submit inspection reports to the LA and the DEPARTMENT in accordance with the policies of the said DEPARTMENT.
- k. Furnish or cause to be furnished
 - (1) A resident construction supervisor, inspectors, and other technical personnel to perform the following work: (The number of such inspectors and other technical personnel required shall be subject to the approval of the LA.)
 - a. Continuous observation of the work and the contractor's operations for compliance with the plans and specifications as construction proceeds, but the ENGINEER does not guarantee the performance of the contract by the contractor.
 - b. Establishment and setting of lines and grades.
 - c. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work.
 - d. Supervision of inspectors, proportioning engineers and other technical personnel and the taking and submitting of material samples.
 - e. Revision of contract drawings to reflect as built conditions.
 - f. Preparation and submission to the LA in the required form and number of copies, all partial and final payment estimates, change orders, records and reports required by the LA and the DEPARTMENT.

NOTE: When Federal funds are used for construction and the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor, the ENGINEER is required to be prequalified with the STATE in Construction Inspection. The onsite resident construction supervisor and project inspectors shall possess valid Documentation of Contract Quantities certification.

2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to this agreement will be in accordance with the current standard specifications and policies of the DEPARTMENT, it being understood that all such reports, plats, plans and drafts shall before being finally accepted, be subject to approval by the LA and the said DEPARTMENT.
3. To attend conferences at any reasonable time when requested to do so by the LA or representatives of the DEPARTMENT.
4. In the event plans, surveys or construction staking are found to be in error during the construction of the PROJECT and revisions of the plans or survey or construction staking corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the contractor.
5. The basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this agreement will be made available upon request to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
6. To make such changes in working plans, including all necessary preliminary surveys and investigations, as may be required after the award of the construction contract and during the construction of the improvement.
7. That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.
8. To submit, upon request by the LA or the DEPARTMENT a list of the personnel and the equipment he/she proposes to use in fulfilling the requirements of this AGREEMENT.

The LA Agrees,

1. To pay the Engineer as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:
 - a. A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
 - b. A sum of money equal to the percentage of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	
Under \$50,000	_____	(see note)
	_____	%
	_____	%
	_____	%
	_____	%
	_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j and 1k of THE ENGINEER AGREES at the hourly rates stipulated below for personnel assigned to this PROJECT as payment in full to the ENGINEER for the actual time spent in providing these services the hourly rates to include profit, overhead, readiness to serve, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under paragraphs 1b, 1c, 1d, 1e, 1f, 1j and 1k of THE ENGINEER AGREES. If the ENGINEER sublets all or a part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge. "Cost to ENGINEER" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm including the Principal Engineer perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

**Grade Classification
of Employee**

Hourly Rate

Principal Engineer	\$186.92
Resident Construction Supervisor	\$141.51
Chief of Party	\$88.04
Instrument Man	
Rodmen	
Inspectors	\$45.39
<hr/>	
*Please see attached	
Exhibit A for Cost	
Estimate of Consultant	
Services (CECS)	

The hourly rates itemized above shall be effective the date the parties, hereunto entering this AGREEMENT, have affixed their hands and seals and shall remain in effect until 3/31/2018. In event the services of the ENGINEER extend beyond 3/31/2018, the hourly rates will be adjusted yearly by addendum to this AGREEMENT to compensate for increases or decreases in the salary structure of the ENGINEER that are in effect at that time.

3. That payments due the ENGINEER for services rendered pursuant to this AGREEMENT will be made as soon as practicable after the services have been performed, in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee based on the above fee schedule and the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee (excluding any fees paragraphs 1j and 1k of the ENGINEER AGREES), based on the above fee schedule and the awarded contract cost, less any previous payment.
 - c. Upon completion of the construction of the improvement, 90 percent of the fee due for services stipulated in paragraphs 1j and 1k.
 - d. Upon completion of all final reports required by the LA and the DEPARTMENT and acceptance of the improvement by the DEPARTMENT, 100 percent of the total fees due under this AGREEMENT, less any amounts previously paid.

By mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

4. That should the improvements be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a and 1g, and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs plus 167 percent incurred up to the time he is notified in writing of such abandonment "actual cost" being defined as material costs plus actual payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost.
5. That should the LA require changes in any of the detailed plans, specifications or estimates (except for those required pursuant to paragraph 4 of THE ENGINEER AGREES) after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 167 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 4 above. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans.
6. That should the LA extend completion of the improvement beyond the time limit given in the contract, the LA will pay the ENGINEER, in addition to the fees provided herein, his actual cost incurred beyond such time limit - "actual cost" being defined as in paragraph 4 above.
7. To submit approved forms BC 775 and BC 776 with this AGREEMENT when federal funds are used for construction.

It is Mutually Agreed,

1. That any difference between the ENGINEER and the LA concerning the interpretation of the provisions of this AGREEMENT shall be referred to a committee of disinterested parties consisting of one member appointed by the

ENGINEER one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.

2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all drawings, specifications, partial and completed estimates and data if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under the AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award or making of this contract. For breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized offices.

Executed by the LA:

Village of Bensenville _____ of the
(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By _____ ,

_____ ,

Clerk

By _____

(Seal)

Title:

Executed by the ENGINEER:

ATTEST:

By _____

Title:

Title:

Approved

Date
Department of Transportation

Regional Engineer

**Exhibit A - Construction Engineering
COST ESTIMATE OF CONSTRUCTION SERVICES
PHASE III ENGINEERING SERVICES
Downtown Area Improvements; North Half
Village of Bensenville**

Route: Downtown Area Improvements; North Half
Local Agency: Village of Bensenville
Section No.: 16-00093-00-FP
Project No.:
Job No.:
County: DuPage

*Includes annual increase (3%) for work in 2017
 **Labor x 0.145 x 2.33 = Fixed Fee
 Complexity factor (R=0.00)

Consultant: Civiltech Engineering, Inc.

Revised: 5/5/2017

ITEM	Employee Classification	Total Number of Manhours	Percent of Total	DOLLARS (\$)				
				Payroll Rate*	Payroll Costs	Payroll, Burden & Fringe Costs; Overhead & Expenses (Labor x 1.33)	Fixed Fee** (Labor x 0.34)	TOTAL
Construction Engineering:	Res. Engr. V	942	90.75%	\$ 53.00	\$ 49,926	\$ 66,402	\$ 16,975	\$ 133,303
	Asst. RE (Res. Engr. III)	0	0.00%	\$ 36.57	\$ -	\$ -	\$ -	\$ -
	Inspector (Res. Engr. I)	0	0.00%	\$ 28.84	\$ -	\$ -	\$ -	\$ -
	Intern (Field Tech. I)	84	8.09%	\$ 17.00	\$ 1,428	\$ 1,899	\$ 486	\$ 3,813
	Chief Layout Specialist	0	0.00%	\$ 32.97	\$ -	\$ -	\$ -	\$ -
	Structural Engr. V	0	0.00%	\$ 43.65	\$ -	\$ -	\$ -	\$ -
	Sr. Proj. Mngr.	12	1.16%	\$ 70.00	\$ 840	\$ 1,117	\$ 286	\$ 2,243
								SUBTOTAL
								\$ 139,359
Direct Expenses:								
1.) Vehicle Expense								\$ 5,400
2.) Material Testing								\$ 16,000
3.) Printing Expense								\$ -
4.) Photography								\$ -
TOTALS		1,038	100.00%		\$ 52,194	\$ 69,418	\$ 17,747	\$ 160,759

- 1.) 120 Days @ \$45.00/Day
- 2.) Material Testing by Village's Materials Testing Consultant
- 3.) Estimated printing expense for Record Drawings
- 4.) Estimated photography expense

Downtown Area Improvements; North Half Summary of Direct Costs

Route: Downtown Area Improvements; North Half
Local Agency: Village of Bensenville
Section: 16-00093-00-FP
Proj. No.:
Job No.:
County: DuPage
Contract No.:

Direct Costs:

Printing Expense

Assume 2 large sets for working drawings & 1 set for final "As-Builts"
Bond Prints: 3 sets X 36 sheets/set X \$0.95 per sheet = \$102.60

Total = \$102.60

Say: \$0.00

Photography Expense

Assume 10 sets of developed digital pictures @ \$10.00 ea. = \$100.00

Say: \$0.00

Vehicle Expense

120 vehicle days required @ \$45.00 per day = \$5,400.00

Total: \$5,400.00

MIDLAND STANDARD ENGINEERING & TESTING, INC.

558 Plate Drive Unit 6
East Dundee, Illinois 60118
(847) 844-1895 f (847) 844-3875

March 2, 2017

Mr. James D. Ewers, P.E.
Civiltech Engineering, Inc.
Two Pierce Place
Suite 1400
Itasca, Illinois 60143

Re: **Quality Assurance** Inspection and Testing Services
Downtown Area Improvements
Bensenville, Illinois

Dear Mr. Ewers:

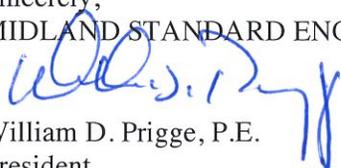
We have prepared this unit rate and cost estimate proposal to provide Quality Assurance services for your project in Bensenville, Illinois. In this proposal we have included rates for personnel, equipment and materials to conduct field inspection for earthwork, field inspection of subgrade soils and backfill, portland cement concrete and hot mix asphalt, laboratory testing and documentation required.

We propose to provide the necessary inspections and testing using experienced, certified personnel and recognized test procedures developed by IDOT, ASTM, AASHTO, ACI, etc. Our services would be provided at the request of your designated representative on a unit rate basis in accordance with the Schedules of Services and Fees-Attachment 1, included in this proposal package. The final cost of these services will be based upon the total amount of work performed.

We are staffed and equipped to aid you in the successful completion of your projects and are available to discuss any aspect of our proposal at your convenience.

Based on the project information submitted we have prepared cost estimates for the anticipated work. The estimate submitted assumes PREVAILING WAGE work. The final cost of these services will be based upon the total amount of work performed.

Sincerely,
MIDLAND STANDARD ENGINEERING & TESTING, INC.


William D. Prigge, P.E.
President
WDP/mlj

Attachment 1: Schedule of Services and Fees
Attachment 1.1: Cost Estimate

SCHEDULE OF SERVICES AND FEES-ATTACHMENT 1
QUALITY ASSURANCE
CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES

FOR

Downtown Area Improvements
Bensenville, IL

PREPARED BY
MIDLAND STANDARD ENGINEERING & TESTING, INC.

EAST DUNDEE, ILLINOIS

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BASIS OF RATES

SCHEDULE OF SERVICES AND FEES-ATTACHMENT 1

We propose to provide the necessary Engineering Consultation and Quality Control inspections and testing, using experienced personnel, in accordance with the project specifications and recognized test procedures developed by, IDOT, ASTM, ACI, AASHTO, etc. We can also provide engineering analysis, problem solving and consultation services as requested.

Our services would be provided at the request of your designated representative on a unit rate basis in accordance with the Schedules of Services and Fees.

Engineering Technicians or Field Engineers would be assigned to provide the field services as requested by your Designated Representatives. Engineering liaison, review and supervision will be provided by a Project Engineer.

In addition to the field and laboratory technical staff, we are able to provide full engineering backup services. Our engineering staff will be available to provide consultation and recommendations which may be required when job site problems are experienced.

Our billing philosophy is simple and direct. We account and invoice for all time expended on a project by our personnel for inspections, preparing and reviewing reports, attending meetings, resolving problems or providing services productive to the project.

Our field people are quoted on a time basis, which includes being fully equipped and expendable supplies.

ATTACHMENT 1
FEE SCHEDULE GENERAL INSPECTION AND TESTING

CONSTRUCTION TESTING AND INSPECTION SERVICES

A. Engineering Technicians

Engineering Technicians will be assigned to the project on the basis of complexity and/or specific experience requirements:

Material Tester 1, PCC	per day	\$ 768.00
	per half day	\$ 384.00
	per hour, 4-8 hr	\$ 96.00
	per hour overtime 8 hr+	\$ 116.00

Material Tester 1, HMA	per day	\$ 768.00
	per half day	\$ 384.00
	per hour, 4-8 hr	\$ 96.00
	per hour overtime 8 hr+	\$ 116.00

Material Tester 2	per day	\$ 792.00
	per half day	\$ 396.00
	per hour, 4-8 hr	\$ 99.00
	per hour overtime 8 hr+	\$ 120.00

Material Tester 2 Technicians will be assigned on mass earthwork assignments to monitor density, approve subgrade, obtain soil samples for laboratory testing. Concrete batch plant and Hot Mix batch plant inspection.

Material Tester 1 PCC Technicians will conduct field testing of concrete including slump, air content, temperature and casting strength specimens.

Material Tester 1 HMA Technicians will conduct field testing of hot mix asphalt pavement, conduct rolling patterns and monitor compaction operations.

*A four (4) hour minimum day is applicable to Technician and Technician (Level 1 and 2) assignments.

B. Engineering Services

Engineering Services for inspection, test evaluation, contract administration, laboratory and field supervision, resolution of special problems, preparation of reports, job-site and other job related meetings and consultation will be furnished in accordance with the following schedule of hourly rates:

Prevailing Wage Administration	\$ 75.00
Field Engineer	\$ 100.00
Staff (Graduate) Engineer	\$ 100.00
Project Engineer	\$ 110.00
Project Manager or Materials Consultant, P.E.	\$ 125.00
Geotechnical Engineer	\$ 135.00
Principal Engineer	\$ 145.00

ATTACHMENT 1 (CONT'D)

C. Laboratory Services

Our fully equipped laboratory can provide a full range of tests, rates for tests not specifically quoted available on request.

1. Compressive Strength tests of concrete cylinders, including expendable supplies (molds), curing at MSET, (Pick-up additional)	6"x12" 4"x8"	\$ 17.50 ea. \$ 15.00 ea.
2. Flexural Strength tests of concrete beams, including reusable molds, curing at MSET and disposal, (Pick up additional)		\$ 50.00 ea.
3. Aggregate Gradation		
Dry Sieve Analysis.....		\$ 63.00 ea.
Washed Sieve Analysis.....		\$ 74.00 ea.
Hydrometer & Sieve Analysis.....		\$ 95.00 ea.
4. Atterberg Limits ASTM D4318.....		\$ 84.00 ea.
5. Theoretical Maximum Density ASTM D 2041		\$ 163.00 ea.
6. Asphalt Content by Reflux Extraction		\$ 105.00 ea.
7. Asphalt Content by Reflux Extraction with Gradation		\$ 163.00 ea.
8. Asphalt Content by Ignition Oven		\$ 110.00 ea.
9. Asphalt Content by Ignition Oven with Gradation		\$ 163.00 ea.
10. Bulk Specific Gravity of Gyratory Specimen		
i. (set of two) and air voids.....		\$ 326.00 ea.
11. Laboratory Compaction Characteristics Using Standard Effort ASTM D 698.....		\$ 165.00 ea.
12. Laboratory Compaction Characteristics Using Modified Effort ASTM D 1557.....		\$ 185.00 ea.

D. Miscellaneous Services

Concrete cylinder pick-up trips will be invoiced when cylinders are picked up as a special trip and not returned to laboratory by MSET personnel commuting to jobsite\$ 75.00 each

NOTES TO FEE SCHEDULE

1. a. Personnel rates quoted are based on rates quoted above are based on first shift work days, Monday through Friday, and up to 8 hours, per man, per day. Shift differentials are applied to straight time rates as follows:
 - First Shift - 6am-2pm, Rates x 1.0
 - Second Shift - 2pm-10pm, Rates x 1.10
 - Third Shift - 10pm-6am, Rates x 1.25Shift rate differentials are determined by the starting time of the inspection shift.
- b. Overtime rates are applicable to all work per man, over 8 hours per day, on Saturdays, Sundays and holidays. Overtime rates are **1.2±** times the applicable straight time rate, (after applying the shift differential). An eight (8) hour minimum daily charge applies for second shift, third shift, weekend and holiday work.
- c. An overtime multiplier of 1.5 times the listed rates may be applied for laboratory testing such as concrete strength testing conducted outside of normal business hours, if required on a job to job basis.
2. Personnel rates are billed portal to portal from our East Dundee facilities. For full time assignments we will attempt to assign personnel to report directly to the job site.
3. Invoices will be submitted once a month for services rendered during the prior month.
4. Rates quoted above include 4 copies of reports distributed and mailed in accordance with your instructions.
5. The presence of our personnel on site will be for the express purpose of observing the work and performing specific tests to document compliance of the work with the applicable specifications. We will not be responsible for job site safety, that duty being properly an obligation of the Contractor, who should be so informed. We will comply fully with the Contractor's safety program.
6. Services and fees not specifically listed above will be quoted upon request.
7. Unit Rates quoted above are applicable until 12/31/17 and are based on our staffing conditions, current as of the date of this proposal.

Downtown Area Improvements
Bensenville, Illinois

Estimate of Testing & Inspection Costs																	ATTACHMENT 1.1		
WORK DESCRIPTION	TEST QTY	INSPECTION PERSONNEL REQUIREMENTS			COST	LABORATORY TESTING											LAB COST	WORK ITEM	
		PCC TESTER 1 (mandays)	HMA TESTER 1 (mandays)	MAT'L TESTER 2 (mandays)		EXTENSION	Cylinders	Asphalt Content & Gradation	Gyratory Voids	Maximum Specific Gravity	Topsoil Qualification	Wash Sieve	Rip Rap/ PGE Gradation	Standard Proctor	Hydrometer & Atterberg	Sample Pickup			
Estimate of Testing & Inspection Costs																			
CONCRETE																			
750 PCC Driveway, 8"	750 sq yd		2.0		\$1,536.00	12										2	\$330.00	\$1,866.00	
440 PCC Sidewalk, 5"	440 sq ft		0.5		\$384.00	6										1	\$165.00	\$549.00	
3660 Curb and Gutter	3,660 lf		1.0		\$768.00	6										1	\$165.00	\$933.00	
##### Stamped Sidewalk, 5"	52,610 sq ft		5.5		\$4,224.00	72												\$1,080.00	\$5,304.00
2352 Stamped Crosswalk, 18"	2,352 sq ft		1.0		\$768.00	6										5	\$465.00	\$1,233.00	
HMA PAVEMENT																			
750 Class D Patches, 7"	370 sq yd			1.0	\$768.00											1	\$75.00	\$75.00	
30 Level Binder	30 tons																		\$768.00
870 Binder Course	870 tons			2.0	\$1,932.00		1	1	1									\$652.00	\$2,584.00
1060 Surface Mix, N50	410 tons			1.0	\$1,164.00		1	1	1									\$652.00	\$1,816.00
SUBTOTAL TECHNICIANS			10.0	4.0	\$11,544.00	102.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	\$3,584.00	\$15,128.00	
			\$768.00 /dy	\$768.00 /dy	\$792.00 /dy		\$15.00 /ea	\$163.00 /ea	\$326.00 /ea	\$163.00 /ea	\$249.00 /ea	\$74.00 /ea	\$150.00 /ea	\$165.00 /ea	\$178.00 /ea	\$75.00 /ea			
			\$7,680.00	\$3,072.00	\$792.00	\$11,544.00	\$1,530.00	\$326.00	\$652.00	\$326.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750.00	\$3,584.00	\$15,128.00	
ALLOWANCE FOR ADDITIONAL ITEMS																			
PCC Tester 1	hr.				\$0.00														
HMA Tester 1	4 hr.				\$463.87														
Material Tester 2	hr.				\$0.00														
PW Administration	hr.				\$0.00														
Field Engineer	hr.				\$0.00														
Project Engineer	3.0 hr.				\$375.00														
Principal Engineer	hr.				\$0.00														
SUB TOTAL ADDITIONAL ITEMS					\$838.87														
																	SAY=	\$16,000.00	

subtotal of laboratory testing= \$3,584.00
 subtotal of technician time= \$11,544.00
 subtotal of additional allowances= \$838.87
GRAND TOTAL w/additional allowance= \$15,966.87

Municipality Village of Bensenville	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary/Construction Engineering Services Agreement For Motor Fuel Tax Funds	C O N S U L T A N T	Name Civiltech Engineering, Inc.
Township				Address Two Pierce Place
County DuPage				City Itasca
Section 16-00093-00-FP				State Illinois, 60143

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above PROJECT. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director Division of Highways, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LA in immediate charge of the engineering details of the PROJECT
Contractor	Company or Companies to which the construction contract was awarded

Section Description

Name Downtown Area Imprvt Route Main St. Length 0.65 miles Structure No. _____

Termini North Half: W. Main St. N. Addison St., N. Central St., and York Rd.

Description

The work consists of bituminous removal and resurfacing with sidewalk removal, brick paver installation, storm and sanitary sewer, watermain, PCC curb & gutter, ADA sidewalk, pavement markings, and all incidental and collateral work necessary to complete the improvement.

Agreement Provisions

The Engineer Agrees,

1. To perform or be responsible for the performance of the following engineering services for the LA in connection with the proposed improvement herein before described, and checked below:
 - a. Make such detailed surveys as are necessary for the preparation of detailed roadway plans.
 - b. Make stream and flood plain hydraulic surveys and gather high water data and flood histories for the preparation of detailed bridge plans.
 - c. Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
 - d. Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.

- e. Prepare Army Corps of Engineers Permit, Division of Water Resources Permit, Bridge waterway sketch and/or Channel Change sketch, Utility plan and locations and Railroad Crossing work agreements.
- f. Prepare Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.

NOTE Four copies to be submitted to the Regional Engineer

- g. Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with five (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
- h. Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
- i. Assist the LA in the receipt and evaluation of proposals and the awarding of the construction contract.
- j. Furnish or cause to be furnished:
 - (1) Proportioning and testing of concrete mixtures in accordance with the "Manual of Instructions for Concrete Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT and promptly submit reports on forms prepared by said Bureau.
 - (2) Proportioning and testing of bituminous mixtures (including extracting test) in accordance with the "Manual of Instructions for Bituminous Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT, and promptly submit reports on forms prepared by said Bureau.
 - (3) All compaction tests as required by the specifications and report promptly the same on forms prepared by the Bureau of Materials and Physical Research.
 - (4) Quality and sieve analyses on local aggregates to see that they comply with the specifications contained in the contract.
 - (5) Inspection of all materials when inspection is not provided at the sources by the Bureau of Materials and Physical Research, of the DEPARTMENT and submit inspection reports to the LA and the DEPARTMENT in accordance with the policies of the said DEPARTMENT.
- k. Furnish or cause to be furnished
 - (1) A resident construction supervisor, inspectors, and other technical personnel to perform the following work: (The number of such inspectors and other technical personnel required shall be subject to the approval of the LA.)
 - a. Continuous observation of the work and the contractor's operations for compliance with the plans and specifications as construction proceeds, but the ENGINEER does not guarantee the performance of the contract by the contractor.
 - b. Establishment and setting of lines and grades.
 - c. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work.
 - d. Supervision of inspectors, proportioning engineers and other technical personnel and the taking and submitting of material samples.
 - e. Revision of contract drawings to reflect as built conditions.
 - f. Preparation and submission to the LA in the required form and number of copies, all partial and final payment estimates, change orders, records and reports required by the LA and the DEPARTMENT.

NOTE: When Federal funds are used for construction and the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor, the ENGINEER is required to be prequalified with the STATE in Construction Inspection. The onsite resident construction supervisor and project inspectors shall possess valid Documentation of Contract Quantities certification.

2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to this agreement will be in accordance with the current standard specifications and policies of the DEPARTMENT, it being understood that all such reports, plats, plans and drafts shall before being finally accepted, be subject to approval by the LA and the said DEPARTMENT.
3. To attend conferences at any reasonable time when requested to do so by the LA or representatives of the DEPARTMENT.
4. In the event plans, surveys or construction staking are found to be in error during the construction of the PROJECT and revisions of the plans or survey or construction staking corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the contractor.
5. The basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this agreement will be made available upon request to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
6. To make such changes in working plans, including all necessary preliminary surveys and investigations, as may be required after the award of the construction contract and during the construction of the improvement.
7. That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.
8. To submit, upon request by the LA or the DEPARTMENT a list of the personnel and the equipment he/she proposes to use in fulfilling the requirements of this AGREEMENT.

The LA Agrees,

1. To pay the Engineer as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:
 - a. A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
 - b. A sum of money equal to the percentage of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	
Under \$50,000	_____	(see note)
	_____	%
	_____	%
	_____	%
	_____	%
	_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j and 1k of THE ENGINEER AGREES at the hourly rates stipulated below for personnel assigned to this PROJECT as payment in full to the ENGINEER for the actual time spent in providing these services the hourly rates to include profit, overhead, readiness to serve, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under paragraphs 1b, 1c, 1d, 1e, 1f, 1j and 1k of THE ENGINEER AGREES. If the ENGINEER sublets all or a part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge. "Cost to ENGINEER" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm including the Principal Engineer perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

**Grade Classification
of Employee**

Hourly Rate

Principal Engineer	\$186.92
Resident Construction Supervisor	\$141.51
Chief of Party	\$88.04
Instrument Man	
Rodmen	
Inspectors	\$45.39
<hr/>	
*Please see attached	
Exhibit A for Cost	
Estimate of Consultant	
Services (CECS)	

The hourly rates itemized above shall be effective the date the parties, hereunto entering this AGREEMENT, have affixed their hands and seals and shall remain in effect until 3/31/2018. In event the services of the ENGINEER extend beyond 3/31/2018, the hourly rates will be adjusted yearly by addendum to this AGREEMENT to compensate for increases or decreases in the salary structure of the ENGINEER that are in effect at that time.

3. That payments due the ENGINEER for services rendered pursuant to this AGREEMENT will be made as soon as practicable after the services have been performed, in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee based on the above fee schedule and the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee (excluding any fees paragraphs 1j and 1k of the ENGINEER AGREES), based on the above fee schedule and the awarded contract cost, less any previous payment.
 - c. Upon completion of the construction of the improvement, 90 percent of the fee due for services stipulated in paragraphs 1j and 1k.
 - d. Upon completion of all final reports required by the LA and the DEPARTMENT and acceptance of the improvement by the DEPARTMENT, 100 percent of the total fees due under this AGREEMENT, less any amounts previously paid.

By mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

4. That should the improvements be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a and 1g, and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs plus 167 percent incurred up to the time he is notified in writing of such abandonment "actual cost" being defined as material costs plus actual payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost.
5. That should the LA require changes in any of the detailed plans, specifications or estimates (except for those required pursuant to paragraph 4 of THE ENGINEER AGREES) after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 167 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 4 above. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans.
6. That should the LA extend completion of the improvement beyond the time limit given in the contract, the LA will pay the ENGINEER, in addition to the fees provided herein, his actual cost incurred beyond such time limit - "actual cost" being defined as in paragraph 4 above.
7. To submit approved forms BC 775 and BC 776 with this AGREEMENT when federal funds are used for construction.

It is Mutually Agreed,

1. That any difference between the ENGINEER and the LA concerning the interpretation of the provisions of this AGREEMENT shall be referred to a committee of disinterested parties consisting of one member appointed by the

ENGINEER one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.

2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all drawings, specifications, partial and completed estimates and data if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under the AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award or making of this contract. For breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized offices.

Executed by the LA:

Village of Bensenville _____ of the
(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By _____ ,

_____ ,

Clerk

By _____

(Seal)

Title:

Executed by the ENGINEER:

ATTEST:

By _____

Title:

Title:

Approved

Date
Department of Transportation

Regional Engineer

**Exhibit A - Construction Engineering
COST ESTIMATE OF CONSTRUCTION SERVICES
PHASE III ENGINEERING SERVICES
Downtown Area Improvements; North Half
Village of Bensenville**

Route: Downtown Area Improvements; North Half
Local Agency: Village of Bensenville
Section No.: 16-00093-00-FP
Project No.:
Job No.:
County: DuPage

*Includes annual increase (3%) for work in 2017
 **Labor x 0.145 x 2.33 = Fixed Fee
 Complexity factor (R=0.00)

Consultant: Civiltech Engineering, Inc.

Prepared: 5/4/2017

ITEM	Employee Classification	Total Number of Manhours	Percent of Total	DOLLARS (\$)				
				Payroll Rate*	Payroll Costs	Payroll, Burden & Fringe Costs; Overhead & Expenses (Labor x 1.33)	Fixed Fee** (Labor x 0.34)	TOTAL
Construction Engineering:	Res. Engr. V	970	84.35%	\$ 53.00	\$ 51,410	\$ 68,375	\$ 17,479	\$ 137,264
	Asst. RE (Res. Engr. III)	0	0.00%	\$ 36.57	\$ -	\$ -	\$ -	\$ -
	Inspector (Res. Engr. I)	0	0.00%	\$ 28.84	\$ -	\$ -	\$ -	\$ -
	Intern (Field Tech. I)	120	10.43%	\$ 17.00	\$ 2,040	\$ 2,713	\$ 694	\$ 5,447
	Chief Layout Specialist	48	4.17%	\$ 32.97	\$ 1,583	\$ 2,105	\$ 538	\$ 4,226
	Structural Engr. V	0	0.00%	\$ 43.65	\$ -	\$ -	\$ -	\$ -
	Sr. Proj. Mngr.	12	1.04%	\$ 70.00	\$ 840	\$ 1,117	\$ 286	\$ 2,243
								SUBTOTAL
								\$ 149,180
Direct Expenses:								
1.) Vehicle Expense								\$ 6,600
2.) Material Testing								\$ 16,000
3.) Printing Expense								\$ 100
4.) Photography								\$ 100
TOTALS		1,150	100.00%		\$ 55,873	\$ 74,310	\$ 18,997	\$ 171,980

- 1.) 120 Days @ \$55.00/Day
- 2.) Material Testing by Village's Materials Testing Consultant
- 3.) Estimated printing expense for Record Drawings
- 4.) Estimated photography expense

Downtown Area Improvements; North Half Summary of Direct Costs

Route: Downtown Area Improvements; North Half
Local Agency: Village of Bensenville
Section: 16-00093-00-FP
Proj. No.:
Job No.:
County: DuPage
Contract No.:

Direct Costs:

Printing Expense

Assume 2 large sets for working drawings & 1 set for final "As-Builts"
Bond Prints: 3 sets X 36 sheets/set X \$0.95 per sheet = \$102.60

Total = \$102.60

Say: \$100.00

Photography Expense

Assume 10 sets of developed digital pictures @ \$10.00 ea. = \$100.00

Total: \$100.00

Vehicle Expense

120 vehicle days required @ \$55.00 per day = \$6,660.00

Total: \$6,660.00

MIDLAND STANDARD ENGINEERING & TESTING, INC.

558 Plate Drive Unit 6
East Dundee, Illinois 60118
(847) 844-1895 f (847) 844-3875

March 2, 2017

Mr. James D. Ewers, P.E.
Civiltech Engineering, Inc.
Two Pierce Place
Suite 1400
Itasca, Illinois 60143

Re: **Quality Assurance** Inspection and Testing Services
Downtown Area Improvements
Bensenville, Illinois

Dear Mr. Ewers:

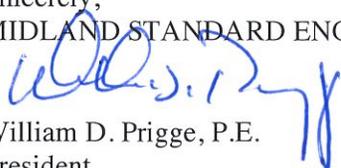
We have prepared this unit rate and cost estimate proposal to provide Quality Assurance services for your project in Bensenville, Illinois. In this proposal we have included rates for personnel, equipment and materials to conduct field inspection for earthwork, field inspection of subgrade soils and backfill, portland cement concrete and hot mix asphalt, laboratory testing and documentation required.

We propose to provide the necessary inspections and testing using experienced, certified personnel and recognized test procedures developed by IDOT, ASTM, AASHTO, ACI, etc. Our services would be provided at the request of your designated representative on a unit rate basis in accordance with the Schedules of Services and Fees-Attachment 1, included in this proposal package. The final cost of these services will be based upon the total amount of work performed.

We are staffed and equipped to aid you in the successful completion of your projects and are available to discuss any aspect of our proposal at your convenience.

Based on the project information submitted we have prepared cost estimates for the anticipated work. The estimate submitted assumes PREVAILING WAGE work. The final cost of these services will be based upon the total amount of work performed.

Sincerely,
MIDLAND STANDARD ENGINEERING & TESTING, INC.


William D. Prigge, P.E.
President
WDP/mlj

Attachment 1: Schedule of Services and Fees
Attachment 1.1: Cost Estimate

SCHEDULE OF SERVICES AND FEES-ATTACHMENT 1
QUALITY ASSURANCE
CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES

FOR

Downtown Area Improvements
Bensenville, IL

PREPARED BY
MIDLAND STANDARD ENGINEERING & TESTING, INC.

EAST DUNDEE, ILLINOIS

MIDLAND STANDARD ENGINEERING & TESTING, INC.

BASIS OF RATES

SCHEDULE OF SERVICES AND FEES-ATTACHMENT 1

We propose to provide the necessary Engineering Consultation and Quality Control inspections and testing, using experienced personnel, in accordance with the project specifications and recognized test procedures developed by, IDOT, ASTM, ACI, AASHTO, etc. We can also provide engineering analysis, problem solving and consultation services as requested.

Our services would be provided at the request of your designated representative on a unit rate basis in accordance with the Schedules of Services and Fees.

Engineering Technicians or Field Engineers would be assigned to provide the field services as requested by your Designated Representatives. Engineering liaison, review and supervision will be provided by a Project Engineer.

In addition to the field and laboratory technical staff, we are able to provide full engineering backup services. Our engineering staff will be available to provide consultation and recommendations which may be required when job site problems are experienced.

Our billing philosophy is simple and direct. We account and invoice for all time expended on a project by our personnel for inspections, preparing and reviewing reports, attending meetings, resolving problems or providing services productive to the project.

Our field people are quoted on a time basis, which includes being fully equipped and expendable supplies.

ATTACHMENT 1
FEE SCHEDULE GENERAL INSPECTION AND TESTING

CONSTRUCTION TESTING AND INSPECTION SERVICES

A. Engineering Technicians

Engineering Technicians will be assigned to the project on the basis of complexity and/or specific experience requirements:

Material Tester 1, PCC	per day	\$ 768.00
	per half day	\$ 384.00
	per hour, 4-8 hr	\$ 96.00
	per hour overtime 8 hr+	\$ 116.00

Material Tester 1, HMA	per day	\$ 768.00
	per half day	\$ 384.00
	per hour, 4-8 hr	\$ 96.00
	per hour overtime 8 hr+	\$ 116.00

Material Tester 2	per day	\$ 792.00
	per half day	\$ 396.00
	per hour, 4-8 hr	\$ 99.00
	per hour overtime 8 hr+	\$ 120.00

Material Tester 2 Technicians will be assigned on mass earthwork assignments to monitor density, approve subgrade, obtain soil samples for laboratory testing. Concrete batch plant and Hot Mix batch plant inspection.

Material Tester 1 PCC Technicians will conduct field testing of concrete including slump, air content, temperature and casting strength specimens.

Material Tester 1 HMA Technicians will conduct field testing of hot mix asphalt pavement, conduct rolling patterns and monitor compaction operations.

*A four (4) hour minimum day is applicable to Technician and Technician (Level 1 and 2) assignments.

B. Engineering Services

Engineering Services for inspection, test evaluation, contract administration, laboratory and field supervision, resolution of special problems, preparation of reports, job-site and other job related meetings and consultation will be furnished in accordance with the following schedule of hourly rates:

Prevailing Wage Administration	\$ 75.00
Field Engineer	\$ 100.00
Staff (Graduate) Engineer	\$ 100.00
Project Engineer	\$ 110.00
Project Manager or Materials Consultant, P.E.	\$ 125.00
Geotechnical Engineer	\$ 135.00
Principal Engineer	\$ 145.00

ATTACHMENT 1 (CONT'D)

C. Laboratory Services

Our fully equipped laboratory can provide a full range of tests, rates for tests not specifically quoted available on request.

1. Compressive Strength tests of concrete cylinders, including expendable supplies (molds), curing at MSET, (Pick-up additional)	6"x12" 4"x8"	\$ 17.50 ea. \$ 15.00 ea.
2. Flexural Strength tests of concrete beams, including reusable molds, curing at MSET and disposal, (Pick up additional)		\$ 50.00 ea.
3. Aggregate Gradation		
Dry Sieve Analysis.....		\$ 63.00 ea.
Washed Sieve Analysis.....		\$ 74.00 ea.
Hydrometer & Sieve Analysis.....		\$ 95.00 ea.
4. Atterberg Limits ASTM D4318.....		\$ 84.00 ea.
5. Theoretical Maximum Density ASTM D 2041		\$ 163.00 ea.
6. Asphalt Content by Reflux Extraction		\$ 105.00 ea.
7. Asphalt Content by Reflux Extraction with Gradation		\$ 163.00 ea.
8. Asphalt Content by Ignition Oven		\$ 110.00 ea.
9. Asphalt Content by Ignition Oven with Gradation		\$ 163.00 ea.
10. Bulk Specific Gravity of Gyratory Specimen		
i. (set of two) and air voids.....		\$ 326.00 ea.
11. Laboratory Compaction Characteristics Using Standard Effort ASTM D 698.....		\$ 165.00 ea.
12. Laboratory Compaction Characteristics Using Modified Effort ASTM D 1557.....		\$ 185.00 ea.

D. Miscellaneous Services

Concrete cylinder pick-up trips will be invoiced when cylinders are picked up as a special trip and not returned to laboratory by MSET personnel commuting to jobsite\$ 75.00 each

NOTES TO FEE SCHEDULE

1. a. Personnel rates quoted are based on rates quoted above are based on first shift work days, Monday through Friday, and up to 8 hours, per man, per day. Shift differentials are applied to straight time rates as follows:
 - First Shift - 6am-2pm, Rates x 1.0
 - Second Shift - 2pm-10pm, Rates x 1.10
 - Third Shift - 10pm-6am, Rates x 1.25Shift rate differentials are determined by the starting time of the inspection shift.
- b. Overtime rates are applicable to all work per man, over 8 hours per day, on Saturdays, Sundays and holidays. Overtime rates are **1.2±** times the applicable straight time rate, (after applying the shift differential). An eight (8) hour minimum daily charge applies for second shift, third shift, weekend and holiday work.
- c. An overtime multiplier of 1.5 times the listed rates may be applied for laboratory testing such as concrete strength testing conducted outside of normal business hours, if required on a job to job basis.
2. Personnel rates are billed portal to portal from our East Dundee facilities. For full time assignments we will attempt to assign personnel to report directly to the job site.
3. Invoices will be submitted once a month for services rendered during the prior month.
4. Rates quoted above include 4 copies of reports distributed and mailed in accordance with your instructions.
5. The presence of our personnel on site will be for the express purpose of observing the work and performing specific tests to document compliance of the work with the applicable specifications. We will not be responsible for job site safety, that duty being properly an obligation of the Contractor, who should be so informed. We will comply fully with the Contractor's safety program.
6. Services and fees not specifically listed above will be quoted upon request.
7. Unit Rates quoted above are applicable until 12/31/17 and are based on our staffing conditions, current as of the date of this proposal.

