



**NORTH AURORA VILLAGE BOARD MEETING
MONDAY, FEBRUARY 5, 2018 – 7:00 p.m.
NORTH AURORA VILLAGE HALL - 25 E. STATE ST.**

AGENDA

CALL TO ORDER - SILENT PRAYER - MEDITATION – PLEDGE OF ALLEGIANCE

ROLL CALL

AUDIENCE COMMENTS

TRUSTEE COMMENTS

CONSENT AGENDA

1. Village Board Minutes dated 01/15/2018; Committee of the Whole Minutes dated 01/15/2018
2. Travel and Expenses for Business Purposes in the amount of **\$65.00**
3. Pay Request No. 3, Final in the Amount of **\$5,176.19** to National Power Rodding Corp. for the 2016 Sanitary Sewer Televising
4. Interim Bills List dated 1/24/2018 in the Amount of **\$111,023.98**
5. Bills List dated 02/05/2018 in the Amount of **\$365,890.77**

NEW BUSINESS

1. Approval of an Intergovernmental Agreement with Kane County for G.I.S. Services
2. Approval of an Ordinance Approving a Temporary Use Permit for the Property at 1175 Oak Street, North Aurora, Illinois as a place of Religious Worship
3. Approval of an Engineering Agreement in the Amount of **\$73,078.00** with Rempe Sharpe & Associates for the 2018 Street Improvements Program
4. Approval of a Proposal from Rubino Engineering Inc. in the amount of **\$10,800.00** for Materials Testing Engineering
5. Motion to Waive Bids and Approve the Purchase of two MIOX Generator Units from Johnson Matthey MIOX Corporation for the West Treatment Plant in the Amount of **\$116,730.00**

OLD BUSINESS

VILLAGE PRESIDENT REPORT

COMMITTEE REPORTS

TRUSTEES' COMMENTS

ADMINISTRATOR'S REPORT

ATTORNEY'S REPORT

FIRE DISTRICT REPORT

VILLAGE DEPARTMENT REPORTS

1. Finance
2. Community Development
3. Police
4. Public Works

EXECUTIVE SESSION

ADJOURN

Initials

A handwritten signature in blue ink, consisting of a stylized 'S' or 'B' shape, is written over a horizontal line.

**VILLAGE OF NORTH AURORA
VILLAGE BOARD MEETING MINUTES
JANUARY 15, 2018**

CALL TO ORDER

Mayor Berman called the meeting to order.

SILENT PRAYER – MEDITATION – PLEDGE OF ALLEGIANCE

ROLL CALL

In attendance: Mayor Dale Berman, Trustee Mark Gaffino, Trustee Mike Lowery, Trustee Laura Curtis, Trustee Mark Carroll, Trustee Tao Martinez, Trustee Mark Guethle, Village Clerk Lori Murray.

Staff in attendance: Village Administrator Steve Bosco, Finance Director Bill Hannah, Community & Economic Development Director Mike Toth, Public Works Director John Laskowski, Police Chief David Fisher, Village Attorney Kevin Drendel.

AUDIENCE COMMENTS – None

TRUSTEE COMMENTS - None

CONSENT AGENDA

1. Village Board Minutes dated 12/18/2017; Committee of the Whole Minutes dated 12/18/2017

2. Interim Bill List dated 12/22/07 in the Amount of \$50,704.59

3. Bills List dated 1/15/2018 in the Amount of \$278,976.05

Motion for approval made by Trustee Guethle and seconded by Trustee Curtis. **Roll Call Vote:** Trustee Guethle – yes, Trustee Martinez – yes, Trustee Carroll – yes, Trustee Curtis – yes, Trustee Lowery – yes, Trustee Gaffino – yes. **Motion approved (6-0).**

NEW BUSINESS

1. Approval of an Ordinance Amending Chapter 15.48 of Title 15 of the North Aurora Code (Sign Ordinance) by Amending Section 15.48.100 Amending Signs in Business Zoning Districts Height at 30 feet.

Motion for approval made by Trustee Guethle and seconded by Trustee Lowery. **Roll Call Vote:** Trustee Guethle -yes, Trustee Martinez – yes, Trustee Carroll – yes, Trustee Curtis – yes, Trustee Lowery – yes, Trustee Gaffino – yes. **Motion approved (6-0).**

2. Approval of an Ordinance Accepting a Bid for the Purchase of and Approving the Contract to the Sell the Property located at 24 S. Lincolnway, North Aurora, Illinois
Motion for approval made by Trustee Lowery and seconded by Trustee Gaffino. **Roll Call Vote:** Trustee Lowery – yes, Trustee Gaffino – yes, Trustee Curtis – yes, Trustee Carroll – yes, Trustee Martinez – yes, Trustee Guethle – yes. **Motion approved (6-0).**

3. Approval of an Ordinance Directing the Sale of Real Property consisting of 1.53 Acres Located at the Northwest Intersection of Randall Road and Interstate 88

Motion for approval made by Trustee Guethle and seconded by Trustee Curtis. **Roll Call Vote:** Trustee Guethle - yes, Trustee Martinez – yes, Trustee Carroll – yes, Trustee Curtis – yes, Trustee Lowery – yes, Trustee Gaffino – yes. **Motion approved (6-0).**

4. Approval of an Ordinance Authorizing the Placement and Enforcement of Traffic Control Devices at the Intersection of Hidden Creek Drive and Oak Street

Motion for approval made by Trustee Lowery and seconded by Trustee Gaffino. **Roll Call Vote:** Trustee Lowery – yes, Trustee Gaffino – yes, Trustee Curtis –yes, Trustee Carroll – yes, Trustee Martinez - yes, Trustee Guethle – yes. **Motion approved (6-0).**

5. Approval of an Engineering Agreement with Rempe-Sharpe and Associates Engineers for 2018 Capital Improvement projects in an Amount not to Exceed \$85,151.50

Motion for approval made by Trustee Gaffino and seconded by Trustee Lowery. **Roll Call Vote:** Trustee Gaffino - yes, Trustee Lowery – yes, Trustee Curtis – yes, Trustee Carroll – yes, Trustee Martinez – yes, Trustee Guethle – yes. **Motion approved (6-0).**

6. Approval of an Engineering Agreement with Rempe-Sharpe and Associates for Water Utility Atlas Updates in the Amount of \$10,950.00

Motion for approval made by Trustee Guethle and seconded by Trustee Carroll. **Roll Call Vote:** Trustee Guethle – yes, Trustee Carroll – yes, Trustee Martinez – yes, Trustee Curtis – yes, Trustee Lowery – yes, Trustee Gaffino – yes. **Motion approved (6-0).**

7. Approval of an Agreement with Hey and Associates for North Aurora Town Centre Wetlands Maintenance in the Amount of \$21,300.00

Motion for approval made by Trustee Gaffino and seconded by Trustee Curtis. **Roll Call Vote:** Trustee Gaffino – yes, Trustee Lowery – yes, Trustee Curtis – yes, Trustee Carroll – yes, Trustee Martinez – yes, Trustee Guethle – yes. **Motion approved (6-0).**

8. Approval of the Purchase of a Ford Explorer in the Amount of \$25,161.00 from Fox Valley Ford

The Village was able to get a price on a Ford Explorer from Fox Valley Ford that was less than the state bid price of \$25,993. The current vehicle the village is using will go to auction. Motion for approval made by Trustee Guethle and seconded by Trustee Gaffino. **Roll Call Vote:** Trustee Guethle – yes, Trustee Martinez – yes, Trustee Carroll – yes, Trustee Curtis – yes, Trustee Lowery – yes, Trustee Gaffino – yes. **Motion approved (6-0).**

OLD BUSINESS - None

VILLAGE PRESIDENT REPORT - None

COMMITTEE REPORTS - None

TRUSTEES' COMMENTS - None

ADMINISTRATOR'S REPORT - None

ATTORNEY'S REPORT - None

FIRE DISTRICT REPORT – Not in attendance

VILLAGE DEPARTMENT REPORTS

1. Finance - None

2. Community Development – items for the February agenda will include a special use for the proposed coffee shop on Route 31 and the proposal for the Holiday Inn Express.

3. Police - None

4. Public Works - None

EXECUTIVE SESSION – None

ADJOURNMENT

Motion to adjourn made by Trustee Guethle and seconded by Trustee Lowery. All in favor.

Motion approved.

Respectfully Submitted,

Lori J. Murray
Village Clerk

**VILLAGE OF NORTH AURORA
COMMITTEE OF THE WHOLE MEETING MINUTES
JANUARY 15, 2018**

CALL TO ORDER

Mayor Berman called the meeting to order.

ROLL CALL

In attendance: Mayor Dale Berman, Trustee Mark Gaffino, Trustee Laura Curtis, Trustee Mike Lowery, Trustee Mark Carroll, Trustee Tao Martinez, Trustee Mark Guethle, Village Clerk Lori Murray.

Staff in attendance: Village Administrator Steve Bosco, Finance Director Bill Hannah, Community & Economic Development Director Mike Toth, Public Works Director John Laskowski, Police Chief David Fisher, Village Attorney Kevin Drendel.

AUDIENCE COMMENTS - None

TRUSTEE COMMENTS - None

DISCUSSION

1. Kane County G.I.S. Intergovernmental Agreement

The G.I.S. is a digital database system which would allow the village to have a database that would keep historical information on the location of water mains, sewers, roads and traffic devices throughout the Village. The Village has looked into several options on maintaining the G.I.S. such as a full-time employee, a part-time employee, a consultant and the County. The two most cost effective ways would be to hire a part-time employee to work on the G.I.S. only or to use the County. The advantage of going with the County is that they would store the data and they have full-time staff that would be utilized. If the Village partners with the County, it would be the first town to do this. It would allow the Village to have a more efficient system than what is currently being used.

The Board was in agreement to move forward.

2. Mid-Year Financial Update

Finance Director Bill Hannah provided an overview of the Village's mid-year financial update. Some of the items mentioned are listed below.

- A balanced budget was passed for the current fiscal year.
- Positive surpluses (in the black) the last 4 years.
- The Village maintained their AA+ bond rating
- General Fund Revenues - \$10,743,320
- Sales Tax revenue up 2.8% first 5 months of the year.
- State shared income tax revenue down 1.3% for the first 7 months of the year.
- Building permits received to-date are \$156,000 versus a budget of \$225, 000.
- Interest on Investments are slowly rising.

- MFT allotments through the first 5 months are 7.7% higher than last year.
- TIF fund increment this year - \$385,159.
- The reserve at the beginning of the year was \$1,163,048, 8 years remaining in the TIF.

**A full list of the mid-year financial update report is available through Village Hall.

EXECUTIVE SESSION

Motion made by Trustee Guethle and seconded by Trustee Gaffino to adjourn to Executive Session for the purpose of discussing the sale of village property. All in favor. **Motion approved.**

(return from Executive Session)

ADJOURNMENT

Motion made by Trustee Guethle and seconded by Trustee to Curtis to adjourn the meeting. All in favor. **Motion approved.**

Respectfully Submitted,

Lori J. Murray
Village Clerk

Travel and Expenses for Business Purposes

NAME	EVENT	EXPENSE or REIMBURSEMENT	AMOUNT	DATE
Dale Berman	Aurora Regional Chamber Economic Pulse Luncheon	Expense	\$30.00	2/15/2018
Dale Berman	Metro West January Board Meeting	Expense	\$35.00	1/17/2018
Total			\$65.00	

For 2.05.2018 Board Meeting Approval

**AURORA REGIONAL
CHAMBER OF COMMERCE**
43 W. Galena Blvd
Aurora, IL 60506

Invoice

DATE	INVOICE #
1/22/2018	122915

BILL TO
Karole Masters Village of North Aurora 25 E. State St. North Aurora, IL 60542

FEIN 36-2441491

		P.O. NUMBER	TERMS
			UPON RECEIPT
QUANTITY	DESCRIPTION	RATE	AMOUNT
1	Member Admission 2018 Economic Pulse Lunch Ticket (Dale Berman)	30.00	30.00
Pay your Chamber invoices online. Simply go to www.chamberlogin.com . Enter the email address you provided and the password you created. Click "Settings" at the top and "Billing" in the left column to Make a Payment. If you are unsure of your login name and/or password, please contact us at (630) 256-3180 or info@aurorachamber.com . Thank you.		TOTAL	\$30.00
		PAYMENTS/CREDITS	\$0.00
		BALANCE DUE	\$30.00

For your convenience, we accept MasterCard, Visa, Discover and American Express.

Amount to be charged \$ _____ Name on card _____

Billing address on card with ZIP code _____

Card number _____ CVS # _____

Signature of cardholder _____ Exp Date _____

Email address for receipt _____

THANK YOU FOR YOUR CONTINUED SUPPORT

43 West Galena Boulevard • Aurora, Illinois 60506 • (630) 256-3180 • Fax (630) 566-0873 • www.AuroraChamber.com

Metro West Council of Government
5 East Downer Place - Ste. E
Aurora, IL 60505
PLEASE NOTE OUR NEW
ADDRESS

Invoice

Date	Invoice #
1/31/2018	3320

Bill To
Village of North Aurora Attn: Accounts Payable 25 East State Street North Aurora, Illinois 60542

[illegible]



REMPE-SHARPE

& Associates, Inc.

Principals

J. Bibby
D. Watson

P.E. S.E.
P.E.

B. Aderman
B. Bennett
N. Dornfeld
L. Vo
J. Whitt

P.E.
P.E. CFM
P.E.
P.E.
P.E.

CONSULTING ENGINEERS

324 West State Street
Geneva, Illinois 60134
Phone: 630/232-0827 – Fax: 630/232-1629

January 22, 2018

Village of North Aurora
25 East State Street
North Aurora, Illinois 60542

Attn: Brian Richter

Re: 2016 Sanitary Sewer Televising
Pay Request No. 3, Final

File: NA-580

Dear Mr. Richter,

Rempe-Sharpe and Associates, Inc. has completed the review of Pay Request No. 3, Final as submitted by National Power Rodding Corp. of Chicago, IL for the 2016 Sanitary Sewer Televising Project and awarded October 3, 2016 in the amount of \$141,228.00. The amount of payment requested is Five Thousand, One Hundred Seventy-Six Dollars and Nineteen Cents (\$5,176.19).

Enclosed, please find copies of the following:

1. Pay Request No. 3, Final in the amount of \$5,176.19 (3 copies).
2. The Engineer's Approval of Payment No. 3, Final in the amount of \$5,176.19 (3 copies).

The Contractor has completed approximately 91,827 lineal feet of 8", 10" and 12" sanitary sewer scheduled to be televised in the Village, including 6,898 LF of heavy cleaning, completing all of the contract work. In addition, the Contractor has completed 5 hours of televising of 24" sanitary sewer as requested by the Village. Televising tapes have been submitted and reviewed by the Engineer. The Engineer has held a small amount of money until the tapes were reviewed. This Contractor has just recently requested the retainage.

Village of North Aurora
Attn: Mr. Brian Richter

2016 Sanitary Sewer Televising
January 22, 2018
Page 2 of 2

Rempe-Sharpe and Associates, Inc. recommends approval of Pay Request No. 3, Final in the amount of \$5,176.19. Upon the Village of North Aurora's approval, please sign all three copies of the Approval. Send one copy of the Approval to the Contractor, National Power Rodding, Corp., along with Payment No. 3, Final. Return one signed copy of the Approval to Rempe-Sharpe & Associates, Inc. and retain one signed copy of the Approval for the Village's records.

If there are any questions, please contact the undersigned.

Very truly yours,

REMPE-SHARPE AND ASSOCIATES, INC.
BY:



Daniel A. Watson, P.E.

Enclosures

E.C. Steve Bosco, Village of North Aurora
Bill Hannah, Village of North Aurora
Paul Young, Village of North Aurora
John Laskowski, Village of North Aurora
Cindy Torracco, Village of North Aurora
M. Flatt, Village of North Aurora

**PAY REQUEST NO. 3, FINAL
2016 SANITARY SEWER TELEVISION
VILLAGE OF NORTH AUROA**

NA-580

11/30/17
BY: DAW

11/30/17 BY: DAW				AWARDED AMOUNT		CONSTRUCTED AMOUNT	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE	QUANTITY	EXTENDED PRICE
1A	Internal Sanitary Sewer TV Inspection, 8" Inside Diameter	70,673	LF	\$1.30	\$91,874.90	65,890	\$85,657.00
1B	Internal Sanitary Sewer TV Inspection, 10" Inside Diameter	5,832	LF	\$1.30	\$7,581.60	5,565	\$7,234.50
1C	Internal Sanitary Sewer TV Inspection, 12" Inside Diameter	4,822	LF	\$1.65	\$7,956.30	6,330	\$10,444.50
2	Heavy Cleaning (As Authorized) ¹⁴⁷	2,000	LF	\$3.00	\$6,000.00	6,898	\$20,694.00
3	Traffic Control	1	LS	\$7,500.00	\$7,500.00	1	\$7,500.00
SUBTOTAL BASE BID				\$120,912.80		\$131,530.00	
ALTERNATIVE BID ITEMS							
A1	Internal Sanitary Sewer TV Inspection, 8" Inside Diameter	12,923	LF	\$1.40	\$18,092.20	12,212	\$17,096.80
A2	Internal Sanitary Sewer TV Inspection, 10" Inside Diameter	1,482	LF	\$1.50	\$2,223.00	1,932	\$2,898.00
SUBTOTAL ALTERNATIVE BID				\$20,315.20		\$19,994.80	
TOTAL BASE AND ALTERNATIVD BID				\$141,228.00		\$151,524.80	
CHANGE ORDER NO. 1							
CO1	Internal Sanitary Sewer TV Inspection, 24" Inside Diameter		HR	\$312.00		5	\$1,560.00
SUBTOTAL CHANGE ORDER NO. 1						\$1,560.00	
TOTAL						\$153,084.80	
LESS 0% RETAINAGE						\$0.00	
LESS PREVIOUS PAYMENTS						\$147,908.61	
TOTAL DUE						\$5,176.19	



NATIONAL POWER RODDING CORP.
Specializing in today's needs for environmental protection
2500 W. Arthington Street • Chicago, IL 60612-4108
(312) 666-7700 • Fax (312) 666-5810

INVOICE: 47903 Page: 1

Bill
To: VILLAGE OF NORTH AURORA
25 E. STATE STREET
NORTH AURORA, IL 60542

Invoice Number 47903/47752
Date 1/22/2018
Our Job No. NOR010-5
Your Reference 16-1021
Requisition No.
Release No.
Authority
Terms Net 30 days
For Transactions To 3/24/2017

Item/Description	Quantity Unit	Unit Price	Total Price
Charges for Personnel and Equipment			
2016 SANITARY SEWER TELEVISIONING			
LOCATION: VILLAGE OF NORTH AURORA, IL			
HEAVY CLEANING	6,898.00 LF	3.00	20,694.00
INTERNAL SANITARY SEWER TV INSPECTION 8"	65,890.00 LF	1.30	85,657.00
INTERNAL SANITARY SEWER TV INSPECTION 10"	5,565.00 LF	1.30	7,234.50
INTERNAL SANITARY SEWER TV INSPECTION 12"	6,330.00 LF	1.65	10,444.50
ALTERNATE ITEM- INTERNAL SS TV INSPECTION 8"	12,212.00 LF	1.40	17,096.80
ALTERNATE ITEM- INTERNAL SS TV INSPECTION 10"	1,932.00 LF	1.50	2,898.00
TRAFFIC CONTROL	1.00 LS	7,500.00	7,500.00
SEWER TV INSPECTION: 24"	312.00 LF	5.00	1,560.00

Subtotal: 153,084.80
Amount Paid: 147,908.61
Total: 5,176.19

FINAL WAIVER OF LIENSTATE OF Illinois
COUNTY OF COOK }

SS

Gyt # _____
Escrow # _____

TO WHOM IT MAY CONCERN:

WHEREAS the undersigned has been employed by Village of North Aurora
to furnish Sewer Televising
for the premises known as 2016 Sanitary Sewer Televising
of which Village of North Aurora is the owner.

THE undersigned, for and in consideration of AND NO/100
\$ 5,176.19 Dollars, and other good and valuable considerations, the receipt whereof is hereby acknowledged, do(es)
hereby waive and release any and all lien or claim of, or right to, lien, under the statutes of the State of Illinois, relating to mechanics' liens,
with respect to and on said above-described premises, and the improvements thereon, and on the material, fixtures, apparatus or machinery
furnished, and on the moneys, funds or other considerations due or to become due from the owner, on account of all labor, services, material,
fixtures, apparatus, or machinery, heretofore furnished, or which may be furnished at any time hereafter, by the undersigned for the
above-described premises, INCLUDING EXTRAS.*

DATE January 11, 2018COMPANY NAME
ADDRESSNational Power Rodding Corp.
2500 W. Arthington St. Chicago, IL 60612

SIGNATURE AND TITLE

William T. Kreidler, President

*EXTRAS INCLUDED BUT ARE NOT LIMITED TO CHANGE ORDERS, BOTH ORAL AND WRITTEN, TO THE CONTRACT

CONTRACTOR'S AFFIDAVITSTATE OF Illinois
COUNTY OF COOK }SS
SS

TO WHOM IT MAY CONCERN:

The undersigned, William T. Kreidler being duly sworn, deposes and
says that he or she is President of
National Power Rodding Corp. who is the
contractor furnishing Sewer Televising work on
building located at 2016 Sanitary Sewer Televising
owned by Village of North Aurora

That the total amount of the contract including extras is 153,084.80 on which he has received payment of
147,908.61 prior to this payment. That all waivers are true, correct and genuine and delivered unconditionally and that
there is no claim either legal or equitable to defeat the validity of said waivers. That the following are the names of all parties who have furnished
material or labor, or both, for said work and all parties having contracts or sub contracts for specific portions of said work or for material
entering into the construction thereof and the amount due or to become due to each, and that the items mentioned include all labor and
material required to complete said work according to plans and specifications:

NAMES	WHAT FOR	CONTRACT PRICE	AMOUNT PAID	THIS PAYMENT	BALANCE DUE
National Power Rodding Corp.	Sewer Televising	\$ 153,084.80	\$ 147,908.61	\$ 5,176.19	\$ -
TOTAL LABOR AND MATERIAL INCLUDING EXTRAS* TO COMPLETE		\$ 153,084.80	\$ 147,908.61	\$ 5,176.19	\$ -

That there are no other contracts for said work outstanding, and that there is nothing due or to become due to any person for material, labor
or other work of any kind done or to be done upon or in connection with said work other than above stated.

DATE January 11, 2018

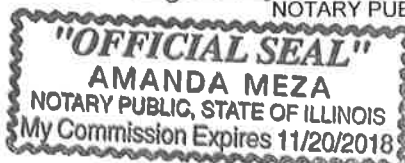
SIGNATURE

William T. Kreidler, President

SUBSCRIBED AND SWORN TO BEFORE ME THIS

11th

DAY OF

January, 2018*EXTRAS INCLUDE BUT ARE NOT LIMITED TO CHANGE
ORDERS, BOTH ORAL AND WRITTEN, TO THE CONTRACT

REMPE-SHARPE & ASSOCIATES, INC.
Geneva, Illinois 60134

APPROVAL OF PAYMENT NO. 3, FINAL

PROJECT: 2016 Sanitary Sewer Televising	PROJECT NO. :	NA-580
CONTRACTOR: National Power Rodding, Corp.	APPLICATION DATE:	January 22, 2018
ADDRESS: 2500 West Arthington Street Chicago, IL 60612	FOR PERIOD ENDING:	November 30, 2017
	APPLICATION AMOUNT:	\$5,176.19

ENGINEER'S APPROVAL

TO: Village of North Aurora


ADDRESS: 25 East State Street
North Aurora, IL 60542

Attached hereto is a Contractor's Application requesting Final Payment for work completed under his contract for the above mentioned project. Attached to the application is a Contractor's Certificate stating that all previous payments to him under his contract have been applied by him to discharge in full all his obligations in connection with this project.

The undersigned hereby approves payment to the contractor of the Final Amount due as shown on the attached Final Payment Estimate.

REMPE-SHARPE AND ASSOCIATES, INC.
Consulting Engineers

DATE: January 22, 2018

BY: 
Daniel A. Watson, P.E.
TITLE: Principal

OWNER'S APPROVAL

The undersigned, being the Owner of the above mentioned project and in accordance with the terms of the Contract Documents, does hereby approve the attached Application for Final Payment to the Contractor for work accomplished under his contract for the above mentioned project.

It being understood that this Approval by the undersigned does not constitute a release of the Contractor's warranties and guarantees.

VILLAGE OF NORTH AURORA

BY: _____

TITLE: _____

DATE: _____

Accounts Payable

To Be Paid Proof List

User: ablasr
Printed: 01/24/2018 - 1:56PM
Batch: 00501.02.2018



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Alarm Detection Systems of IL						
000060						
Alarm Monitoring/Trtmnt Plants/Feb - Apr 201	798.00	60-445-4652	Communications	183240-1003	1/7/2018	02/05/2018
Total:	798.00	*Vendor Total				
ASCAP						
041230						
Annual Music License 2018	348.00	15-430-4751	North Aurora Days Expenses	2018	12/20/2017	02/05/2018
Total:	348.00	*Vendor Total				
Aurora Area Convention						
003770						
NA Hotel Tax/ December 2017	783.47	15-430-4752	90% Tourism Council	122017	1/16/2018	02/05/2018
Total:	783.47	*Vendor Total				
BMI						
044400						
NA Days License Fee 2018	349.00	15-430-4751	North Aurora Days Expenses	31077110	1/2/2018	02/05/2018
Total:	349.00	*Vendor Total				
Butler Chemical Company, Inc.						
046060						
Mnthly Chemical Wtr Trmnt/VHall & PD	200.00	01-445-4520	Public Buildings Rpr & Mtce	22955	1/5/2018	02/05/2018
Total:	200.00	*Vendor Total				
Camic Johnson, LTD.						
03989						
Administrative Tow Hearings	116.67	01-440-4260	Legal	156	1/11/2018	02/05/2018
Total:	116.67	*Vendor Total				
Cargill, Inc.						
039780						
Road Salt	8,489.11	10-445-4439	Salt	2903858503	1/10/2018	02/05/2018
Road Salt	5,626.43	10-445-4439	Salt	2903861726	1/11/2018	02/05/2018
Total:	14,115.54	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Commonwealth Edison						
000330						
Streetlights/1802 Orchard Gateway Blvd/12.5 - 1901 Orchard Gateway Blvd/12.5 - 1.8	431.37	10-445-4660	Street Lighting and Poles	0562144049	1/9/2018	02/05/2018
Streetlights/1051 Kettle Ave/12.5 - 1.8	64.61	10-445-4660	Street Lighting and Poles	0835082016	1/9/2018	02/05/2018
Streetlights/Rt 25 1200 Orchard Rd/12.5 - 1.8	52.49	10-445-4660	Street Lighting and Poles	1083133047	1/8/2018	02/05/2018
Streetlights/Randall Rd & Ice Cream/12.5 - 1.8	562.12	10-445-4660	Street Lighting and Poles	1344158042	1/9/2018	02/05/2018
Streetlights/Comiskey Ave & Orchard Rd/12.5 - 1.9	12.94	10-445-4660	Street Lighting and Poles	1543019148	1/9/2018	02/05/2018
Streetlights/19 N. Lincolnway/12.6 - 1.9	180.19	10-445-4660	Street Lighting and Poles	2313121105	1/9/2018	02/05/2018
	70.47	10-445-4660	Street Lighting and Poles	2985029045	1/10/2018	02/05/2018
Total:	1,374.19	*Vendor Total				
Constellation NewEnergy, Inc.						
034130						
Streetlights/IBS-0005324/ 11.14 - 12.14	3,112.08	10-445-4660	Street Lighting and Poles	0043063477	1/4/2018	02/05/2018
Streetlights/Orchard Rd & White Oak/12.05 - 0	148.55	10-445-4660	Street Lighting and Poles	0043156998	1/10/2018	02/05/2018
Streetlights/Orchard Rd & Orchard Gateway/12	248.61	10-445-4660	Street Lighting and Poles	0043157072	1/10/2018	02/05/2018
Streetlights/1600 Orchard Gateway Blvd/12.05	277.24	10-445-4660	Street Lighting and Poles	0043157078	1/10/2018	02/05/2018
Streetlights/Orchard Rd & Oak Street/12.05 - 0	196.34	10-445-4660	Street Lighting and Poles	0043157087	1/10/2018	02/05/2018
Streetlights/Orchard Gateway & Deerpath Rd/1	89.59	10-445-4660	Street Lighting and Poles	0043157951	1/10/2018	02/05/2018
Total:	4,072.41	*Vendor Total				
Cox Landscaping, LLC						
051660						
Mowing/August/Village Owned Property	114.71	01-445-4531	Grass Cutting	General Mow	12/31/2017	02/05/2018
Mowing/August/Pine Creek	125.00	17-009-4533	Maintenance	Pine Creek	12/31/2017	02/05/2018
Mowing/August/Timber Oaks	308.00	17-008-4533	Maintenance	Timber Oaks	12/31/2017	02/05/2018
Mowing/August/ Waterford Oaks	666.85	17-004-4533	Maintenance	Waterford Oal	12/31/2017	02/05/2018
Mowing/August/Willow Lakes	51.00	17-011-4533	Maintenance	Willow Lakes	12/31/2017	02/05/2018
Total:	1,265.56	*Vendor Total				
Dynegy Energy Services						
048750						
Well #7/12.7 - 1.9	4,110.10	60-445-4662	Utility	0915059095	1/12/2018	02/05/2018
Well #4 WTP/12.6 - 1.8	10,818.69	60-445-4662	Utility	1383089059	1/12/2018	02/05/2018
Well #5/12.7 - 1.9	11,942.48	60-445-4662	Utility	3915126049	1/12/2018	02/05/2018
Well #3/12.6 - 1.8	1,547.46	60-445-4662	Utility	5587066023	1/12/2018	02/05/2018
Well #6/12.6- 1.4	3,286.73	60-445-4662	Utility	6701024008	1/12/2018	02/05/2018
Total:	31,705.46	*Vendor Total				
Feece Oil						
031060						
Mid-Grade Fuel	2,810.40	71-000-1340	Gas/Diesel Escrow	3523874	1/12/2018	02/05/2018
Diesel Fuel	1,198.10	71-000-1340	Gas/Diesel Escrow	3523875	1/12/2018	02/05/2018
Total:	4,008.50	*Vendor Total				
Fifth Third Bank						
028450						
IGFOA Meeting	45.00	01-430-4390	Dues & Meetings	BH122017-00	12/27/2017	02/05/2018
Dollar Tree/Recognition Luncheon Supplies	10.75	01-430-4799	Misc.	BH122017-00	12/27/2017	02/05/2018
Michaels/Retirement Recognition Gift	100.00	01-430-4799	Misc.	BH122017-00	12/27/2017	02/05/2018
Maggianos/Retirement Luncheon	994.35	01-430-4799	Misc.	BH122017-00	12/27/2017	02/05/2018

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
I-Pass Replenish	20.00	01-445-4799	Misc. Expenditures	BH122017-00	12/27/2017	02/05/2018
IGFOA Dues Hannah/ Flatt	350.00	01-430-4390	Dues & Meetings	BH122017-00	12/27/2017	02/05/2018
Best Buy/Tablet/Tab Pen - Bosco	164.98	01-430-4870	Equipment	DA122017-00	12/27/2017	02/05/2018
Antenna Plus/ Squad Antenna	591.00	01-430-4870	Equipment	DA122017-00	12/27/2017	02/05/2018
Amazon/Mouse/ POE Adapter/Tablet Case	40.12	01-430-4870	Equipment	DA122017-00	12/27/2017	02/05/2018
Amazon/Vehicle Equipment	329.75	01-440-4511	Vehicle Repair and Maint	DC122017-00	12/27/2017	02/05/2018
Amazon/Coffee Maker	234.99	01-440-4799	Misc.	DC122017-00	12/27/2017	02/05/2018
Vistaprint/Dept. Christmas Cards	93.85	01-440-4799	Misc.	DF1220017-0	12/27/2017	02/05/2018
C.E. Mendez Fndn/Too Good For Drugs Books	323.31	01-440-4498	Community Service	JD122017-00	12/27/2017	02/05/2018
Paypal/Range/ Gun Cleaner	205.00	01-440-4383	Firearm Training	JD122017-00	12/27/2017	02/05/2018
LexisNexis/Investigation Tool	50.00	01-440-4555	Investigations	JD122017-00	12/27/2017	02/05/2018
Brownells/Firearms Equipment	407.88	01-440-4383	Firearm Training	JD122017-00	12/27/2017	02/05/2018
Freightcenter/LESO Shipment	700.00	01-440-4799	Misc.	JG122017-00	12/27/2017	02/05/2018
Tri-County/Trucl 145 - Install Equipment	954.88	01-445-4510	Equipment/IT Maint	JL122017-00	12/27/2017	02/05/2018
Arch Printing/ET Shirts	225.00	01-440-4557	Evidence Processing	MQ122017-00	12/27/2017	02/05/2018
Heartsmart/AED Pads	165.60	01-440-4870	Equipment	MQ122017-00	12/27/2017	02/05/2018
ICC/Membership Renewal/Zabel	135.00	01-441-4390	Dues & Meetings	MT122017-00	12/27/2017	02/05/2018
ICSC/Membership Renewal/Toth	100.00	01-441-4390	Dues & Meetings	MT122017-00	12/27/2017	02/05/2018
Office Depot/Strategic Planning Supplies	93.48	01-410-4280	Professional Consulting	SB122017-00	12/27/2017	02/05/2018
Chipotle/Strategic Planning Staff Lunch	270.00	01-410-4280	Professional Consulting	SB122017-00	12/27/2017	02/05/2018
Fat Ricky's/Lunch While At Training Class	11.95	01-440-4380	Training	SBZ122017-0	12/27/2017	02/05/2018
IL Assoc. of Chiefs of Police/Annual Membersl	95.00	01-440-4390	Dues & Meetings	SBZ122017-0	12/27/2017	02/05/2018
Nick's BBQ/Lunch While At Training Class	10.41	01-440-4380	Training	SBZ122017-0	12/27/2017	02/05/2018
Mongo McMichaels/Lunch While At Training C	15.65	01-440-4380	Training	SBZ122017-0	12/27/2017	02/05/2018
Fat Ricky's/Lunch While At Training Class	11.95	01-440-4380	Training	SBZ122017-0	12/27/2017	02/05/2018

Total: 6,749.90 *Vendor Total

Gertrude Kaecker

043710

Refund- Swr. Maint. Chrg.	44.10	18-320-3350	Sewer Collection	swr01.19.2018	1/19/2018	02/05/2018
Refund- water charge	446.22	60-320-3340	Water Collections	wtr01.19.2018	1/19/2018	02/05/2018

Total: 490.32 *Vendor Total

Gregory, Manko

014230

Police Pension Mtg. Fee 1.16.18	50.00	01-410-4015	Pension Board-Mtgs Per Diem	1162018	1/16/2018	02/05/2018
---------------------------------	-------	-------------	-----------------------------	---------	-----------	------------

Total: 50.00 *Vendor Total

Harmonic Heating & Air Conditioning

047680

Boiler Repairs @ PD	220.00	01-445-4520	Public Buildings Rpr & Mtce	32255	12/11/2017	02/05/2018
Meter Repairs @ PD	310.00	01-445-4511	Vehicle Repair and Maint	32273	12/14/2017	02/05/2018
New Boiler System Installed @ PD	1,201.00	01-445-4520	Public Buildings Rpr & Mtce	32278	12/15/2017	02/05/2018
Garage Heaters Repair @ PD	220.00	01-445-4520	Public Buildings Rpr & Mtce	32375	1/4/2018	02/05/2018

Total: 1,951.00 *Vendor Total

Harners Bakery And Restaurant

025570

Coffee with Mayor/Nov16 & Dec 21	29.40	01-410-4799	Misc. Expenditures	0904 & 1017	11/16/2017	02/05/2018
Refreshments/Strategic Plan Meeting	108.10	01-410-4799	Misc. Expenditures	0931	11/29/2017	02/05/2018

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<hr/>						
Total:	137.50	*Vendor Total				
Hey and Associates, Inc.						
040900						
NATC Open Space Management/Dec	1,485.00	17-032-4533	Maintenance	17-0006-8013	1/8/2018	02/05/2018
<hr/>						
Total:	1,485.00	*Vendor Total				
Hook-Fast Specialties, Inc						
010410						
Name Tag	22.85	01-440-4160	Uniform Allowance	326546	1/11/2018	02/05/2018
<hr/>						
Total:	22.85	*Vendor Total				
Julie						
013400						
Annual JULIE Message Fees 2017	3,703.56	60-445-4652	Communications	2018-1185	1/8/2018	02/05/2018
<hr/>						
Total:	3,703.56	*Vendor Total				
Kane County Water Assoc						
005040						
2018 Membership Dues/Paul, Dave, Ryan, Jenr	100.00	60-445-4390	Dues & Meetings	2018	1/19/2018	02/05/2018
<hr/>						
Total:	100.00	*Vendor Total				
Menards						
016070						
Tools/Supplies- Trmnt Plant	159.77	60-445-4567	Treatment Plant Repair/Maint	78568	1/12/2018	02/05/2018
Desk Handles- Admin	42.90	01-430-4870	Equipment	78888	1/16/2018	02/05/2018
<hr/>						
Total:	202.67	*Vendor Total				
North Aurora NAPA, Inc.						
038730						
PWrks Shop tools	72.80	01-445-4511	Vehicle Repair and Maint	282260	12/21/2017	02/05/2018
Repair Parts/Elbow & Bolt	40.50	01-445-4511	Vehicle Repair and Maint	283764	1/15/2018	02/05/2018
Repair Parts/Flex Tubing & Bolt	8.31	01-445-4511	Vehicle Repair and Maint	283791	1/9/2018	02/05/2018
Line/Hose & Brush	10.37	01-445-4511	Vehicle Repair and Maint	284057	1/12/2018	02/05/2018
Repair Parts/Socket & Paint	22.03	01-445-4511	Vehicle Repair and Maint	284077	1/12/2018	02/05/2018
Snow Plow Repair Part	24.74	01-445-4511	Vehicle Repair and Maint	284252	1/15/2018	02/05/2018
<hr/>						
Total:	178.75	*Vendor Total				
North East Multi-Regional						
001520						
Training Class/Dilley,Shillair/Dec 11 - 13	750.00	01-440-4380	Training	230081	1/5/2018	02/05/2018
<hr/>						
Total:	750.00	*Vendor Total				
Ottosen Britz Kelly Cooper						
031590						
Legal Services/ NAPD	90.00	01-440-4260	Legal	103379	12/31/2017	02/05/2018

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
<hr/>						
Total:	90.00	*Vendor Total				
Paddock Publications						
044240						
Subscription 1.21.18 - 3.17.18	58.00	01-410-4411	Office Expenses	03172018	1/17/2018	02/05/2018
<hr/>						
Total:	58.00	*Vendor Total				
Paul Dilley						
019760						
Police Pension Meeting Fee 1.16.18	50.00	01-410-4015	Pension Board-Mtgs Per Diem	1162018	1/16/2018	02/05/2018
<hr/>						
Total:	50.00	*Vendor Total				
Petty Cash						
000900						
Meals While Plowing	107.87	01-445-4799	Misc. Expenditures	001	1/22/2018	02/05/2018
Mtg Meal/ Mileage/ Dues	82.92	01-441-4390	Dues & Meetings	002	1/22/2018	02/05/2018
Karole's Retirement	135.10	01-430-4799	Misc.	003	1/22/2018	02/05/2018
Mileage/ Admin	29.94	01-430-4370	Conferences & Travel	004	1/22/2018	02/05/2018
Mileage/ Water	6.20	60-445-4370	Conferences & Travel	005	1/22/2018	02/05/2018
2018 Calendar	7.51	01-430-4411	Office Expenses	006	1/22/2018	02/05/2018
Marvo Plat of Dedication	2.00	01-441-4506	Publishing	007	1/22/2018	02/05/2018
Strategic Planning Mtg/ Coffee with Mayor	35.75	01-410-4390	Dues & Meetings	008	1/22/2018	02/05/2018
<hr/>						
Total:	407.29	*Vendor Total				
Petty Cash						
007570						
Chiefs Association Luncheon	75.00	01-440-4390	Dues & Meetings	001	1/17/2018	02/05/2018
Office Expenses	11.00	01-440-4411	Office Expenses	002	1/17/2018	02/05/2018
Prisoner Maintenance & Supplies	4.26	01-440-4450	Prisoner Mtce & Supplies	003	1/17/2018	02/05/2018
Community Service	76.80	01-440-4498	Community Service	004	1/17/2018	02/05/2018
Postage	71.02	01-440-4505	Postage	005	1/17/2018	02/05/2018
<hr/>						
Total:	238.08	*Vendor Total				
Rempe Sharpe & Associates						
000970						
General Eng Svc/Dec	262.63	01-441-4255	Engineering	26111	1/4/2018	02/05/2018
Engineering/Sanitary Swr Upgrades/Dec	261.56	01-441-4255	Engineering	26112	1/4/2018	02/05/2018
Engineering/Lot Grading/Dec	236.00	01-441-4255	Engineering	26113	1/4/2018	02/05/2018
Engineering/GIS Mapping/Dec	4,495.10	60-445-4255	Engineering	26114	1/4/2018	02/05/2018
Engineering/Automall Tower Antenna/Dec	516.17	90-000-E231	Sittig Cortese LLC - Verizon	26115	1/4/2018	02/05/2018
Engineering/AMC Dolan Redevelopment/Dec	905.56	90-000-E223	310 S Lincolnway	26116	1/4/2018	02/05/2018
Engineering/Fox Valley Golf/Dec	1,883.11	90-000-E232	DR Horton - FV Golf Course	26117	1/4/2018	02/05/2018
Engineering/ Oak St Prof Bldg/Dec	1,415.78	01-441-4255	Engineering	26118	1/4/2018	02/05/2018
Engineering/Smiles Dental/Dec	632.50	01-441-4255	Engineering	26120	1/4/2018	02/05/2018
Engineering/Randall High/Dec	80.50	90-000-E055	NA Lodging 1, LLC	26121	1/4/2018	02/05/2018
<hr/>						
Total:	10,688.91	*Vendor Total				
Robyn, Stecklein						
022080						

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Police Pension Meeting Fee 1.16.18	50.00	01-410-4015	Pension Board-Mtgs Per Diem	1162018	1/16/2018	02/05/2018
Total:	50.00	*Vendor Total				
Russo Power Equipment Inc.						
036290						
Sidewalk Salt- Power Blue Melt	139.50	01-445-4439	Salt	4659428	1/11/2018	02/05/2018
Total:	139.50	*Vendor Total				
SmithAmundsen LLC						
039030						
Legal Srvc/Policy Reviews	587.50	01-430-4260	Legal	542976	1/12/2018	02/05/2018
Total:	587.50	*Vendor Total				
Thom Jungels						
039460						
Plumbing Inspections (25)	875.00	01-441-4276	Inspection Services	Thru 1.17.18	1/17/2018	02/05/2018
Total:	875.00	*Vendor Total				
Tri-County						
027350						
Snow Removal 1.14 - 1.15	17,092.50	01-445-4538	Snow Removal	18-01-5798	1/16/2018	02/05/2018
Snow Removal 1.16	3,932.50	01-445-4538	Snow Removal	18-01-5799	1/16/2018	02/05/2018
Total:	21,025.00	*Vendor Total				
Verizon Wireless						
025430						
Cell Phone Usage/NAPD EOC/Dec 13 - Jan 12	25.84	01-440-4652	Communications	9799835157-C	1/12/2018	02/05/2018
Cell Phone Usage/PWrks/Dec 13 - Jan 12	88.40	01-445-4652	Communications	9799835157-C	1/12/2018	02/05/2018
Cell Phone Usage/NAPD EOC/Dec 13 - Jan 12	232.63	01-440-4652	Communications	9799835158-C	1/12/2018	02/05/2018
Cell Phone Usage/PWrks/Dec 13 - Jan 12	202.14	01-445-4652	Communications	9799835158-C	1/12/2018	02/05/2018
Cell Phone Usage/Admin/Dec 13 - Jan 12	100.81	01-430-4652	Communications	9799835158-C	1/12/2018	02/05/2018
Cell Phone Usage/Comm.Dev/Dec 13 - Jan 12	86.06	01-441-4652	Communications	9799835158-C	1/12/2018	02/05/2018
Cell Phone Usage/WaterDec 13 - Jan 12	74.49	60-445-4652	Communications	9799835158-C	1/12/2018	02/05/2018
Total:	810.37	*Vendor Total				
Vision Service Plan (IL)						
042720						
Emp. Vision Ins. February 2018	498.86	01-000-2056	VSP - Employee Contributions	804750760	1/17/2018	02/05/2018
Total:	498.86	*Vendor Total				
Water Products Company						
001170						
Watermail Tools/Parts	167.00	60-445-4568	Watermain Rprs. & Rplcmts.	0278386	1/12/2018	02/05/2018
Total:	167.00	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Water Resources						
010380						
Dual Check Repair Kits	299.38	60-445-4480	New Meters,rprs. & Rplcmts.	31964	1/4/2018	02/05/2018
Meter Parts/ Misc.	80.74	60-445-4480	New Meters,rprs. & Rplcmts.	31967	1/4/2018	02/05/2018
Total:	380.12	*Vendor Total				
Report Total:	111,023.98					

Accounts Payable

To Be Paid Proof List

User: Ablaser
 Printed: 02/01/2018 - 3:00PM
 Batch: 00502.02.2018



Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
1st Ayd Corporation						
039020						
PD Paper Towels	532.00	01-445-4421	Custodial Supplies	PSI168696	1/24/2018	01/26/2018
Total:	532.00	*Vendor Total				
ADT						
048240						
Security Services/VH/Feb-Apr	243.36	01-445-4652	Communications	01312018	1/11/2018	02/05/2018
Total:	243.36	*Vendor Total				
AIM						
046510						
Employee Flex/Jan 2018	168.00	01-430-4267	Finance Services	00028961	2/1/2018	02/06/2018
Total:	168.00	*Vendor Total				
Alarm Detection Systems of IL						
000060						
Fire Alarm Monitoring/4 Bldgs/Feb-Apr	1,320.00	01-445-4652	Communications	98501	1/7/2018	02/05/2018
Total:	1,320.00	*Vendor Total				
Anderson Pest Solutions						
019770						
Pest Control/VH/March 2016	124.83	01-445-4520	Public Buildings Rpr & Mtce	3790497-37173	3/1/2016	02/05/2018
Pest Control/PD/March 2016	51.00	01-445-4520	Public Buildings Rpr & Mtce	3791701-37183	3/1/2016	02/05/2018
Pest Control/Well #5	35.00	60-445-4565	Water Well Rpr & Mtce	4445749	1/16/2018	02/05/2018
Total:	210.83	*Vendor Total				
AT&T Global Services, Inc.						
023770						
Maintenance Contract/Feb 2018	157.17	01-430-4651	Telephone	IL831008	1/16/2018	02/05/2018
Total:	157.17	*Vendor Total				
AT&T						
001620						
Phone/Internet/Pwks Garage	170.06	01-445-4651	Telephone	01072018	1/7/2018	02/05/2018
Total:	170.06	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
B & F Construction						
015600						
Plan Review/Woodman's	225.00	01-441-4276	Inspection Services	48551	2/15/2018	02/05/2018
Total:	225.00	*Vendor Total				
C & R Specialists						
008640						
Squad Repairs/#74	504.58	01-440-4511	Vehicle Repair and Maint	01112018	1/11/2018	02/05/2018
Total:	504.58	*Vendor Total				
Canon Solutions America, Inc.						
034960						
Copier Maintenance	183.57	01-440-4510	Equipment/IT Maint	4024798593	1/11/2018	02/05/2018
Total:	183.57	*Vendor Total				
Cargill, Inc.						
039780						
Road Salt	12,451.99	10-445-4439	Salt	2903876506	1/17/2018	02/05/2018
Road Salt	9,730.28	10-445-4439	Salt	2903876614	1/17/2018	02/05/2018
Road Salt	12,545.08	10-445-4439	Salt	2903880404	1/18/2018	02/05/2018
Road Salt	4,140.56	10-445-4439	Salt	2903880747	1/18/2018	02/05/2018
Road Salt	2,792.47	10-445-4439	Salt	2903908889	1/30/2018	02/05/2018
Total:	41,660.38	*Vendor Total				
Casey Equipment Co, Inc						
010570						
JC 416B- HT/Maintenance	1,132.74	01-445-4511	Vehicle Repair and Maint	W59913	1/12/2018	02/05/2018
JC 416 HT/Maintenance	1,192.62	01-445-4511	Vehicle Repair and Maint	W59914	1/12/2018	02/05/2018
Total:	2,325.36	*Vendor Total				
College of Dupage						
017690						
Law Enforcmnt Training/Conference (4)	725.00	01-440-4370	Conferences & Travel	8716	1/24/2018	02/05/2018
Total:	725.00	*Vendor Total				
Comcast Cable						
040740						
Internet Srvcs/West Wtr Trmnt Plant	192.63	60-445-4652	Communications	01092018	1/9/2018	02/05/2018
TV Service/NAPD	10.53	01-440-4652	Communications	01102018	1/10/2018	02/05/2018
Internet Service/NAPD	222.80	01-440-4652	Communications	01202018	1/20/2018	02/06/2018
Total:	425.96	*Vendor Total				
Commonwealth Edison						
000330						
Streetlights/4 S. Willowway/12.6-1.9	107.56	10-445-4660	Street Lighting and Poles	0146092024	1/10/2018	02/05/2018
Streetlights/Btrfld & Laurel/12.7-1.10	5.33	10-445-4660	Street Lighting and Poles	0445305000	1/10/2018	02/05/2018
Streetlights/355 Moorfield/12.14-1.18	12.62	10-445-4660	Street Lighting and Poles	0795092063	1/19/2018	02/05/2018

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Streetlights/1197 Comiskey/12.14-1.18	12.62	60-445-4662	Utility	0903075187	1/19/2018	02/05/2018
Water Tower Elec/318 Butterfield	73.86	60-445-4662	Utility	1313136025	1/11/2018	02/05/2018
Streetlights/Rt25/Btrfld/12.7-1.10	272.05	10-445-4660	Street Lighting and Poles	1425064018	1/11/2018	02/05/2018
Streetlights/1193 Comiskey/12.14-1.18	12.62	10-445-4660	Street Lighting and Poles	1743032047	1/19/2018	02/05/2018
Total:	496.66	*Vendor Total				
Constellation NewEnergy, Inc.						
034130						
Streetlight/IBS-0005324	3,702.16	10-445-4660	Street Lighting and Poles	0043322980	1/22/2018	01/26/2018
Streetlight/211 River Rd	3,899.44	10-445-4660	Street Lighting and Poles	0043363869	1/25/2018	01/26/2018
Total:	7,601.60	*Vendor Total				
Cornerstone Surveying PC						
467648						
Plat of Survey/24S Lincolnway	500.00	12-438-4280	Professional/Consulting Fees	9363	1/26/2018	02/05/2018
Total:	500.00	*Vendor Total				
Euclid Managers						
049670						
Short Term Disability/Feb	284.04	01-000-2057	Short-Term Disability	2/1-2/28	1/17/2018	02/05/2018
Total:	284.04	*Vendor Total				
Feece Oil						
031060						
Diesel Fuel	1,214.93	71-000-1340	Gas/Diesel Escrow	3524669	1/18/2018	02/05/2018
MidGrade Fuel	2,335.12	71-000-1340	Gas/Diesel Escrow	3525911	1/26/2018	02/05/2018
Diesel Fuel	1,034.99	71-000-1340	Gas/Diesel Escrow	3525912	1/26/2018	02/05/2018
Total:	4,585.04	*Vendor Total				
Fox Valley Park District						
001500						
Payout Reimb. Randall Highlands Park Final	248,648.06	91-000-2233	FVPD Escrow	01182018	1/22/2018	02/05/2018
Total:	248,648.06	*Vendor Total				
Fox Valley Tree Service, Inc.						
024480						
Tree Trimming 2017	4,150.00	01-445-4532	Tree Service	NAU038	1/16/2018	02/05/2018
Total:	4,150.00	*Vendor Total				
Fox Valley Youth Ofcrs Assn.						
038480						
Membership Dues/Stecklein	20.00	01-440-4390	Dues & Meetings	01302018	1/30/2018	02/05/2018
Total:	20.00	*Vendor Total				
Frost Electric Company, Inc.						
021540						

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Light Repair PD Booking Area/Lamps For Stoc	520.00	01-445-4520	Public Buildings Rpr & Mtce	7340	1/18/2018	02/05/2018
PD Hallway Sensor Repair	465.00	01-445-4520	Public Buildings Rpr & Mtce	7341	1/18/2018	02/05/2018
Electrician For Well #7 Testing	360.00	60-445-4565	Water Well Rpr & Mtce	7342	1/18/2018	02/05/2018
Wire Repair/Wingfoot	1,370.00	10-445-4661	Street Light Repair/Maint	7344	1/18/2018	02/05/2018
Total:	2,715.00	*Vendor Total				
Harmonic Heating & Air Conditioning						
047680						
PD New Pump Installed	7,713.00	01-445-4520	Public Buildings Rpr & Mtce	32477	1/25/2018	02/05/2018
PW Garage Bay 2&3 Replace Igniter	3,650.00	01-445-4520	Public Buildings Rpr & Mtce	32486	1/25/2018	02/05/2018
PD Filters Replaced - 64	1,446.00	01-445-4520	Public Buildings Rpr & Mtce	32494	1/25/2018	02/05/2018
VH Filters Replaced - 14	526.00	01-445-4520	Public Buildings Rpr & Mtce	32495	1/25/2018	02/05/2018
Total:	13,335.00	*Vendor Total				
ILLCO Inc.						
040110						
PVC Parts/Repairs @ Trtmnt Plants	22.88	60-445-4567	Treatment Plant Repair/Maint	1330222	1/16/2018	02/05/2018
Fittings/Valves For Trtmnt Plants	240.61	60-445-4567	Treatment Plant Repair/Maint	1372600-1	1/22/2018	02/05/2018
Total:	263.49	*Vendor Total				
Janco Chemical Supply, Inc						
000660						
Custodial Supplies	186.40	01-445-4421	Custodial Supplies	274289	1/15/2018	02/05/2018
Custodial Supplies	81.95	01-445-4421	Custodial Supplies	274405	1/15/2018	02/05/2018
Total:	268.35	*Vendor Total				
Kane County Division of						
036170						
Electrical Maintn/Sept-Nov	210.00	01-445-4545	Traffic Signs & Signals	2017-0000004	1/25/2018	02/05/2018
Total:	210.00	*Vendor Total				
Kane County Recorder						
010600						
Plat Fee	80.00	01-441-4506	Publishing	NAUR120517	12/5/2017	02/05/2018
Plat & Resolution Fee	128.00	01-441-4506	Publishing	NAUR120817	12/8/2017	02/05/2018
Total:	208.00	*Vendor Total				
KB Collision & Customs						
046310						
Repair #72/Claim18050F498858	4,756.70	14-430-4774	Insurance Claims	1356	1/29/2018	02/05/2018
Total:	4,756.70	*Vendor Total				
Law Enforcement Training, Inc.						
034970						
Annual Membership Dues	700.00	01-440-4390	Dues & Meetings	07252017	7/25/2017	02/05/2018
Total:	700.00	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Lee Jensen Sales Co., Inc.						
044070						
Hoses For Trtmnt Plnt/Backwash Maint	102.00	60-445-4567	Treatment Plant Repair/Maint	174696	1/25/2018	02/05/2018
Total:	102.00	*Vendor Total				
Majerus, Ethan						
467646						
Training/Mileage	788.59	01-440-4380	Training	12222017	12/22/2017	02/05/2018
Total:	788.59	*Vendor Total				
Menards						
016070						
Credit/Invoice 21729	-4.56	01-445-4545	Traffic Signs & Signals	21729	4/13/2016	02/05/2018
Credit/Invoice 44862	-18.00	60-445-4567	Treatment Plant Repair/Maint	44862	12/9/2016	02/05/2018
Credit/Invoice 66321	-48.54	01-445-4520	Public Buildings Rpr & Mtce	66321	8/16/2017	02/05/2018
Misc. Tools & Equipment/Trtmnt Plants	159.96	60-445-4567	Treatment Plant Repair/Maint	79604	1/25/2018	02/05/2018
Total:	88.86	*Vendor Total				
Michael R. Quinn						
033280						
Training Reimb.	1,293.67	01-440-4380	Training	01192018	1/19/2018	02/05/2018
Total:	1,293.67	*Vendor Total				
Miner Electronics Corporation						
3383						
Squad Repair #71/DP3 Camera Encoder/Harne:	47.50	01-440-4511	Vehicle Repair and Maint	264630	12/8/2017	02/05/2018
Squad Repair #75/Momentary Switch	61.75	01-440-4511	Vehicle Repair and Maint	264768	12/27/2017	02/05/2018
Squad Repair #77/Wireless Mic	47.50	01-440-4511	Vehicle Repair and Maint	264769	12/27/2017	02/05/2018
Squad Repair/Pwr Drain/Car 70	95.00	01-440-4511	Vehicle Repair and Maint	264796	1/5/2018	02/05/2018
Total:	251.75	*Vendor Total				
Muller & Muller, Ltd.						
467647						
Silo Park Engineering Design	9,642.89	12-438-4255	Engineering	171014-01	1/10/2018	02/05/2018
Total:	9,642.89	*Vendor Total				
National Power Rodding Corp.						
025290						
Pay Request No.3-Final	5,176.19	18-445-4570	Sewers Rpr & Mtce	47903-022018	1/22/2018	02/05/2018
Total:	5,176.19	*Vendor Total				
North Aurora NAPA, Inc.						
038730						
Vehicle Repair and Maintn	114.85	01-440-4511	Vehicle Repair and Maint	283661	1/8/2018	02/05/2018
Vehicle Repair and Maintn	182.16	01-440-4511	Vehicle Repair and Maint	283901	1/10/2018	02/05/2018
Vehicle Repair and Maintn	26.52	01-440-4511	Vehicle Repair and Maint	283999	1/11/2018	02/05/2018

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Paint	3.06	01-445-4511	Vehicle Repair and Maint	284529	1/18/2018	02/05/2018
Oil Filter	10.70	01-445-4511	Vehicle Repair and Maint	284565	1/18/2018	02/05/2018
Spark Plug & Tip Cleaner	8.21	01-445-4511	Vehicle Repair and Maint	284790	1/22/2018	02/05/2018
Electric Relay	12.82	01-445-4511	Vehicle Repair and Maint	284966	1/24/2018	02/05/2018
Clamps	10.44	01-445-4511	Vehicle Repair and Maint	284973	1/24/2018	02/05/2018
Oil Filter/Truck 170	28.71	01-445-4511	Vehicle Repair and Maint	285109	1/25/2018	02/05/2018
Total:	397.47	*Vendor Total				
Office Depot						
035720						
Office Supplies/NAPD	38.66	01-440-4411	Office Expenses	2150557098	1/15/2018	02/05/2018
Total:	38.66	*Vendor Total				
Office Depot						
039370						
Credit/Invoice988690818001	-23.74	01-441-4411	Office Expenses	98904653600	12/15/2017	02/05/2018
Total:	-23.74	*Vendor Total				
Oxie Valley Electric Supply, Inc.						
048340						
Street Light Bulbs	563.28	10-445-4661	Street Light Repair/Maint	0609	11/8/2017	02/05/2018
Total:	563.28	*Vendor Total				
Paddock Publications, Inc.						
026910						
Public Hearing	71.30	01-441-4506	Publishing	T4490743	1/7/2018	02/05/2018
Public Hearing	59.80	01-441-4506	Publishing	T4490743	1/7/2018	02/05/2018
Legal Notice/Bids/Well #8 Drilling	108.10	60-445-4506	Publishing	T4491276	1/14/2018	02/05/2018
Total:	239.20	*Vendor Total				
Physicians Immediate Care, North Chicago LLC						
049540						
Random Drug Test/PW/Lirot	53.00	01-445-4799	Misc. Expenditures	4017131	1/17/2018	02/05/2018
Pre-employment Drug Test/Admin/Blaser	38.00	01-430-4799	Misc.	4017131	1/17/2018	02/05/2018
Total:	91.00	*Vendor Total				
Preventative Maintenace Systems						
000260						
Safety Inspection/Truck #174, 178,180, 186	164.00	01-445-4511	Vehicle Repair and Maint	206806	12/8/2017	02/05/2018
Total:	164.00	*Vendor Total				
Secretary of State						
002690						
Notary Renewal/Buzieki/Kitner	20.00	01-440-4799	Misc.	01192018	1/19/2018	02/05/2018
Total:	20.00	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Sign-A-Rama						
029780						
Repair #72/Claim 18050F498858	891.70	14-430-4774	Insurance Claims	12252	1/30/2018	02/05/2018
Total:	891.70	*Vendor Total				
Sun Life Financial						
033620						
Dental Insurance-Feb 18/Admin	255.52	01-430-4136	Dental Insurance	022018	1/18/2018	02/05/2018
Dental Insurance-Feb 18/Comm Dev	94.75	01-441-4136	Dental Insurance	022018	1/18/2018	02/05/2018
Dental Insurance-Feb 18/Police	801.26	01-440-4136	Dental Insurance	022018	1/18/2018	02/05/2018
Dental Insurance-Feb 18/PW	264.72	01-445-4136	Dental Insurance	022018	1/18/2018	02/05/2018
Dental Insurance-Feb 18/Water	51.78	60-445-4136	Dental Insurance	022018	1/18/2018	02/05/2018
Dental Insurance-Feb 18/Employee	1,657.95	01-000-2054	Insurance Employee Reimburse	022018	1/18/2018	02/05/2018
Total:	3,125.98	*Vendor Total				
Superior Asphalt Materials LLC						
031440						
Asphalt	246.84	01-445-4530	Public Grounds Rpr & Mtce	20180036	1/24/2018	02/06/2018
Total:	246.84	*Vendor Total				
Technology Management Rev Fund						
007390						
IWIN/Dec 2017	723.32	01-440-4652	Communications	T1819422	1/16/2018	02/05/2018
Total:	723.32	*Vendor Total				
Teska Associates, Inc.						
024820						
Client Mtg/Mileage	235.68	90-000-E232	DR Horton - FV Golf Course	8291	1/18/2018	02/05/2018
Total:	235.68	*Vendor Total				
Traffic Control & Protection						
021520						
Deaf Person in Area Sign	116.80	01-445-4545	Traffic Signs & Signals	91588	1/30/2018	02/05/2018
Total:	116.80	*Vendor Total				
Tri-County						
027350						
Snow Removal/1.23.18	1,920.00	01-445-4538	Snow Removal	18-01-5807	1/23/2018	02/05/2018
Snow Removal/1.24.18	1,085.00	01-445-4538	Snow Removal	18-01-5810	1/25/2018	02/05/2018
Total:	3,005.00	*Vendor Total				
Valley Fire Prot Systems, LLC						
027570						
Fire Sprinkler Inspection/East Trtmnt Plant	185.00	60-445-4567	Treatment Plant Repair/Maint	150283	1/22/2018	02/05/2018
Fire Sprinkler Inspection/West Trtmnt Plant	180.00	60-445-4567	Treatment Plant Repair/Maint	150284	1/22/2018	02/05/2018
Total:	365.00	*Vendor Total				

Description	Amount	Account	Acct Name	Invoice #	Inv Date	Pmt Date
Verizon Wireless						
025430						
Cell Phone Charges/Water/12.13-1.12	79.19	60-445-4652	Communications	9799835159	1/12/2018	02/05/2018
Cell Phone Charges/PW/12.13-1.12	93.88	01-445-4652	Communications	9799835159	1/12/2018	02/05/2018
Cell Phone Charges/Admin/12.13-1.12	57.76	01-430-4652	Communications	9799835159	1/12/2018	02/05/2018
Cell Phone Charges/PD/12.13-1.12	67.31	01-440-4652	Communications	9799835159	1/12/2018	02/05/2018
Total:	298.14	*Vendor Total				
Water Resources						
010380						
5/8" Meters (6)	455.28	60-445-4480	New Meters,rprs. & Rplcmts.	32010	1/18/2018	02/05/2018
Total:	455.28	*Vendor Total				
Report Total:	365,890.77					

Memorandum

To: Steve Bosco
From: David Arndt, IT Analyst
Date: 1-31-2018
Re: Kane County IGA GIS solution

Village staff researched and reviewed all possible options for implementing an enterprise level GIS solution for the Village. Staff worked with industry consultants and current GIS experts employed by various government entities to establish an implementation plan.

During the review process staff determined using Kane County would be most beneficial because they have a well-established GIS department, currently provide all base data, and have an enterprise class data center capable of providing these services. Economically, partnering with Kane County is the least expensive solution.

Having the hardware and data internally would require hiring part time dedicated staff. The cost is nearly identical as having Kane County provide the same services. The primary difference is the experience which comes with the Kane County staff (several GIS professionals) vs. a single part time GIS professional attempting the same project. Staff feels Kane County would establish our base line faster, thus allowing us to move forward on data collection of Village assets sooner.

Annual costs for Kane County to house our GIS data is \$13,992. Kane County will also provide GIS services at a rate of \$41.19/hr for standard GIS layers and \$49.17/hr for custom programming. Staff estimates the annual expense to the Village would be \$58,742. Same solution housed internally would be \$90,500 for year one and \$51,500 for years 2-5. Staff calculated the expense over a six year period, year six would be a full hardware refresh for the Village. The below numbers do not take into account Village IT staff time spent on implementing and maintaining internal hardware.

	year 1	Year 2	year 3	Year 4	Year 5	Year 6	Total
Village Internal	\$ 90,500.00	\$ 51,500.00	\$ 51,500.00	\$ 51,500.00	\$ 51,500.00	\$ 64,500.00	\$ 361,000.00
Kane County	\$ 58,742.00	\$ 58,742.00	\$ 58,742.00	\$ 58,742.00	\$ 58,742.00	\$ 58,742.00	\$ 352,452.00

Kane - \$352,452.00

Village - \$361,000.00

Staff recommends partnering with Kane County to house our data in their enterprise datacenter. Staff also recommends using Kane County staff to provide GIS services to expand our GIS layers/asset management. Kane County has provided an IGA, Village staff and the Village attorney have reviewed and approved the IGA language. Please find the attached IGA for GIS Geodatabase Hosting and Related services.

January 15th 2018 the Village Board discussed the Kane County inter-governmental agreement during the Committee of the Whole meeting and expressed no concerns.

**VILLAGE OF NORTH AURORA
BOARD REPORT**

TO: VILLAGE PRESIDENT & BOARD OF TRUSTEES
CC: STEVE BOSCO, VILLAGE ADMINISTRATOR
FROM: MIKE TOTH, COMMUNITY AND ECONOMIC DEVELOPMENT DIRECTOR
SUBJECT: TEMPORARY USE – 1175 OAK STREET
AGENDA: 2/5/2018 REGULAR VILLAGE BOARD MEETING

ITEM

Ordinance approving a temporary use permit for the property at 1175 Oak Street North Aurora, Illinois as a place of religious worship.

DISCUSSION

On August 1, 2016, the Village Board granted a temporary use permit for the property at 1175 Oak Street to Orchard Community church as a place of religious worship. The one (1) year temporary expiration ended August 1, 2017. A six (6) month extension provision was included, per the approval of the Village Administrator.

The six (6) month extension expired February 1, 2018. Per the Village Administrator, a final six (6) month extension could be added at the discretion of the Village Board. Staff suggests that any further extensions than the one being proposed require that the use be treated this as a permanent use, as the use was only to be temporary to begin with. Staff notes that there have not been any issues with the use thus far.

Attachments:

1. August 1, 2016 Village Board agenda item submittal packet.
2. Ordinance approving a temporary use permit for the property at 1175 Oak Street North Aurora, Illinois as a place of religious worship.

VILLAGE OF NORTH AURORA BOARD REPORT

TO: VILLAGE PRESIDENT & BOARD OF TRUSTEES
CC: STEVE BOSCO, VILLAGE ADMINISTRATOR
FROM: MIKE TOTH, ECONOMIC & COMMUNITY DEVELOPMENT DIRECTOR
SUBJECT: TEMPORARY USE – 1175 OAK STREET
AGENDA: 8/1/2016 REGULAR VILLAGE BOARD MEETING

ITEM

Ordinance approving a temporary use permit for the property at 1175 Oak Street North Aurora, Illinois as a place of religious worship.

DISCUSSION

The Orchard Community church has been operating at 101 S. Barnes Road in Aurora. They recently sold their facility on Barnes Road and are in the process of re-establishing their community in downtown Aurora. According to the Senior Pastor, Scott Hodge, the buildout of their new facility could take almost one year. In order to continue to provide their services, The Orchard Community would like to temporarily conduct business and services at 1175 Oak Street Unit A, the 8,862 square foot former USA Fitness tenant space.

Per Section 11.3.A.3 of the Zoning Ordinance, *temporary uses not specifically listed here shall require the specific approval of the Village Board. Such uses may be allowed in any zoning district, provided that such temporary use is consistent with the purpose and intent of this Ordinance and the zoning district in which it is located.* After discussing with the Village Attorney, it was determined that the provisions included in Section 11.3.A.3 could apply to this temporary use request.

Although the use is temporary, staff is treating the request as if it were a special use request in order to gauge any potential impacts on the surrounding area. With regard to this request, there were three areas of concern that staff wanted to further examine:

1. Life Safety

As an assemblage use, staff wanted to ensure the safety of church patrons. Staff asked that The Orchard Community reach out to the North Aurora Fire District and ask them to evaluate the tenant space for their usage. Upon inspection of the tenant space by the NAFD, it was determined that the only items needing to be addressed prior to occupancy is to replace a missing fire extinguisher and a few missing ceiling tiles. Staff notes that the tenant space is equipped with a sprinkler system.

2. Parking

For Places of Worship, the Zoning Ordinance requires one parking space per four seats. According to the submitted floor plan, there would be 194 seats located in the main gathering room. As such, a total of forty-nine (49) parking spaces would be required. The subject property provides sixty-nine (69) parking spaces.

3. Hours of Operation

Staff examined the hours of operation for the only other business (On the Edge Salon) located on the subject property in order to anticipate any potential noise and/or parking impacts that the temporary use could have on the adjoining business. The Orchard Community would host services at 5:00 p.m. on Saturdays and 10:00 a.m. on Sundays. On the Edge Salon closes at 5:00 p.m. on Saturdays and is closed all day Sunday. Therefore, the services times do not conflict with operation hours of the neighboring salon.

RECOMMENDATION

Provided that all of staff's aforementioned concerns have been addressed, staff recommends approval of the temporary use, under the following conditions:

- 1) One year limitation on the temporary use, with a one-time option to extend for up to an additional six months, per approval of the Village Administrator.
- 2) Use of temporary signage shall be limited to the following:
 - a. Window display from the interior of the building; and,
 - b. Exterior display only during weekends.

Attachments:

1. Use narrative, dated July 26, 2016, provided Scott Hodge
2. Temporary Floor Plan
3. Letter of Intent, dated July 22, 2016.
4. Ordinance approving a temporary use permit for the property at 1175 Oak Street North Aurora, Illinois as a place of religious worship.

July 26, 2016



Mr. Michael Toth
Community and Economic Development Director
Village of North Aurora
25 E. State Street
North Aurora, IL 60542

Dear Mr. Toth,

This letter is in regards to The Orchard Community's request for a temporary usage permit for 1175 Oak Street, Unit A, in North Aurora. We are requesting usage for a period of approximately 12-14 months, while our permanent facility is secured and constructed in downtown Aurora.

Location: 1175 Oak Street, Unit A, in North Aurora.

Possession Date: August 1, 2016

Approx. Square Footage: 8,862

Usage: Weekdays, 9am - 5pm: Church Staff (5-8 people)
Weekends, Sat 5pm-Sun 10am: Church services
(100-150 people per service)

Parking: 69 on-site parking spaces available
Weekday Needed: 5-8 spaces
Weekend Needed: 65-70 per service
Additional parking available in shopping center
**Next door Salon is closed during church service times*

Signage: Researching window and/or exterior lit building signage

Fire Chief Ryan Lambert completed a walk-through of the building on 7/21/16 and indicated that we will need to replace a missing fire extinguisher and also replace any missing ceiling tiles.

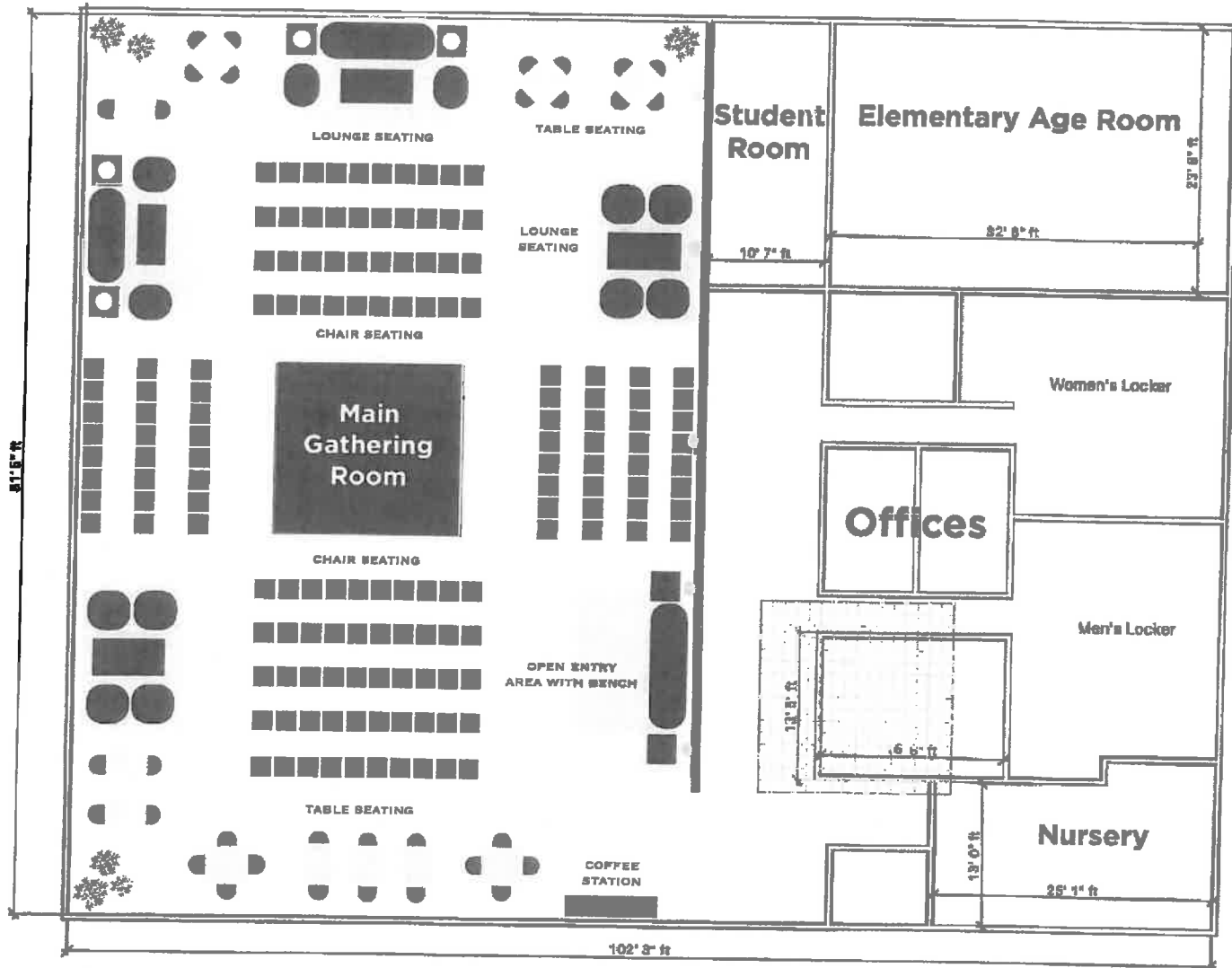
Attached to this email is: an aerial view of the property, layout plans, and a copy of the signed letter of intent from the landlord. Please feel free to call me at (630) 621-0975 with any questions or concerns.

Sincerely,

Scott D. Hodge
Senior Pastor, The Orchard Community

101 South Barnes Road, Aurora, Illinois 60506 • 630.897.8888
theorchardcommunity.com • info@theorchardcommunity.com

Helping people become who they have been created to be.



July 22, 2016

Aurohara Properties, LLC

Re: 1175 Oak Street, Unit A, North Aurora

Dear CK Palani,



The following is a summary of the terms and conditions upon which we are prepared to enter into an agreement for the lease of the subject Property for your presentation to the owner of the referenced property ("Property"). Once this Letter of Intent has been mutually agreed upon and fully executed by the appropriate parties, our client is prepared to move forward with the Lease process.

The basic terms and conditions are as follows:

Subject Property:	1175 Oak Street, Unit A, North Aurora
Approx. Square Footage:	8,862 Square Feet
Tenant:	Orchard Valley Community Church
Landlord:	Aurohara Properties, LLC
Lease Term:	One (1) Six (6) month initial lease term
Renewal Option:	Two (2) Three (3) month options
Security Deposit:	\$7,500.00
Rent:	\$7,500.00 / Month Gross
1st Option Rent:	\$8,000.00 / Month Gross (if exercised)
2nd Option Rent:	\$9,000.00 / Month Gross (if exercised)
CAM:	Gross Lease
Landlord Improvement:	As-Is
TI Allowance:	None
Rent Commencement:	Twenty-Four (24) hours after possession of the premises.
Possession Date:	August 1, 2016
Tenant Improvements:	Tenant shall have the right to make improvements or modifications to the leased premises with the Landlord's prior written approval.
Sign:	Tenant shall have the right, if they so choose to have a temporary sign on the building.

Site Survey: Tenant shall conduct a site survey of the property and premises prior to lease execution to verify dimensions, capacity of utilities and review existing conditions of the premises and property.

Exclusive: N/A

Contingency: The lease shall be contingent upon tenant obtaining necessary permits for the operation of its business, Special Use permit, Board Approval, Denominational approval, and Village Approval.

Agency Disclosure: Lessor acknowledges that Brummel Properties is acting as a DUAL AGENT.

Commission: Subject to a fully executed lease, Brummel Properties shall be due a leasing commission, pursuant to separate commission agreement.

This proposal shall not be binding upon the parties, and is being offered for consideration for Ten (10) business days from the date of this letter. A binding agreement shall not exist until a lease has been executed and delivered by both parties.

Please sign below in acknowledgement of the above lease terms, and return the original to my attention at the address shown below.

Respectfully Submitted,

Anthony Brummel, Managing Broker
Brummel Properties, Inc.

Proposed Lessee/Buyer:

Orchard Valley Community Church

Print: Scott Hodge

By: 

Dated: July 22, 2016

Proposed Lessor/Seller:

Aurohara Properties, LLC.

Print: Colathur Palani

Print: 

By: Colathur Palani

Dated: 7/25/2016

VILLAGE OF NORTH AURORA



VILLAGE OF
NORTH
AURORA

VILLAGE OF NORTH AURORA
KANE COUNTY, ILLINOIS

Ordinance No. _____

ORDINANCE APPROVING A TEMPORARY USE PERMIT
FOR THE PROPERTY AT 1175 OAK STREET NORTH AURORA, ILLINOIS
AS A PLACE OF RELIGIOUS WORSHIP

Adopted by the
Board of Trustees and President
of the Village of North Aurora
this ____ day of _____, 2018

Published in Pamphlet Form
by authority of the Board of Trustees of the
Village of North Aurora, Kane County, Illinois,
this ____ day of _____, 2018
by _____.

Signed _____

VILLAGE OF NORTH AURORA

ORDINANCE NO. _____

**ORDINANCE APPROVING A TEMPORARY USE PERMIT
FOR THE PROPERTY AT 1175 OAK STREET NORTH AURORA, ILLINOIS
AS A PLACE OF RELIGIOUS WORSHIP**

WHEREAS, On August 1, 2016, the Village Board granted a temporary use permit to Orchard Community Church for the property at 1175 Oak Street for use as a place of religious worship for twelve (12) months, including six (6) month extension provision per the approval of the Village Administrator; and

WHEREAS, the one (1) year temporary expiration and the six (6) month extension have both expired; and

WHEREAS, the Orchard Community Church is requesting approval of the property at 1175 Oak Street, Unit A, in the Village of North Aurora, Illinois (the "Property"), for temporary use as a church for a final six (6) month period; and

WHEREAS, Section 11.3 of Title 17 (Zoning) describes the qualifications and criteria for the granting of temporary uses that are not listed permitted temporary uses, and church use is not considered a permitted temporary use; and

WHEREAS, requests for temporary uses not listed as permitted uses must be approved the Board of Trustees and must be consistent with the purpose and intent of the Zoning Code in the District in which the property is located; and

WHEREAS, whereas the Property is located in the B-2 General Commercial District, the Zoning Code only allows churches in residential districts and the B-1 Community Business District as a permanent use, but there currently is no property in the Village zoned B-1 Community Business District; and

WHEREAS, there are very few, if any, existing buildings available for temporary use for a church in the residential zoning districts in the Village, and no B-1 Community Business District property in the Village, leaving B-2 General Commercial Districts as the most viable option for a temporary church use in the Village; and

WHEREAS, granting a temporary church use for the Property is not inconsistent with the purpose and intent of the Zoning Code.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of North Aurora, Kane County, Illinois, as follows:

1. The recitals set forth above are adopted and incorporated herein as the material and significant findings of the President and the Board of Trustees as if fully stated herein.

VILLAGE OF NORTH AURORA

2. The request for approval of the Property for temporary church use for an additional period of time not to exceed six (6) months is hereby approved along with the right to have temporary signage to be displayed from the interior of the building and exterior signage only during weekends that is otherwise in compliance with the Village Sign Ordinance

3. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this Ordinance or any part thereof is for any reason held to be unconstitutional or invalid or ineffective by any court of competent jurisdiction, such decision shall not affect the validity or effectiveness of the remaining portions of this Ordinance, or any part thereof. The Village Board of Trustees hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof irrespective of the fact that anyone or more sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared unconstitutional, invalid or ineffective.

4. This Ordinance shall take immediate full force and effect from and after its passage, approval, publication and such other acts as required by law.

Presented to the Board of Trustees of the Village of North Aurora, Kane County, Illinois this _____ day of _____, 2018, A.D.

Passed by the Board of Trustees of the Village of North Aurora, Kane County, Illinois this _____ day of _____, 2018, A.D.

Mark Carroll _____

Laura Curtis _____

Mark Gaffino _____

Mark Guethle _____

Michael Lowery _____

Tao Martinez _____

Approved and signed by me as President of the Board of Trustees of the Village of North Aurora, Kane County, Illinois this _____ day of _____, 2018, A.D.

Dale Berman, Village President

ATTEST:

Lori Murray, Village Clerk



Memorandum

To: Dale Berman, Village President & Board of Trustees

Cc: Steven Bosco, Village Administrator

From: John Laskowski, Public Works Director

Date: January 31, 2018

Re: Agreement with Rempe-Sharpe for 2018 Street Maintenance Program

In September the Village of North Aurora entered into an agreement with MDS Incorporated to perform a comprehensive pavement condition assessment over the entire road network. This study provided a numerical pavement condition index for each road segment (block) based on the distresses displayed by the road surface. This information combined with existing historical data provided staff an objective method of identifying streets for maintenance and prescribing the appropriate pavement maintenance techniques.

Staff and Rempe-Sharpe used the data provided by MDS to develop this year's street maintenance program. In addition to this program staff is currently developing a 5 year plan and 10 year outlook that will provide maintenance estimates that will assist in budget and maintenance planning. This year the streets proposed for maintenance are listed in the table below.

Included in the attachments are the estimates of cost associated with the construction of these improvements. The estimated cost of these improvements is \$2,256,524. The below list will be modified if bid prices exceed the budget.

<u>Street</u>	<u>From</u>	<u>To</u>
White Oak Drive	Oak Street	Wilkerson Lane
Spring Court	White Oak Drive	End of cul-de-sac
White Oak Court	White Oak Drive	End of cul-de-sac (east)
White Oak Court	White Oak Drive	End of cul-de-sac (west)
Whitney Court	White Oak Drive	End of cul-de-sac
Stevens Court	White Oak Drive	End of cul-de-sac
West Mooseheart Drive	White Oak Drive	Subdivision limits/pavement change

<u>Street</u>	<u>From</u>	<u>To</u>
Brenson Court	West Mooseheart Road	End of cul-de-sac
Wilkenson Lane	entire loop	
Patterson Avenue	Wilkenson	West subdivision limits
Martinson Court	Patterson	End of cul-de-sac
Martinson Court	Patterson	North subdivision boundary
Cromwel Court	Wilkenson Lane	End of cul-de-sac
Carlson Court	Wilkenson Lane	End of cul-de-sac
Dogwood Drive	Acorn Drive	Magnolia Drive
Dogwood Court	Dogwood Drive	End of cul-de-sac
Juniper Drive	Butternut Drive	Magnolia Drive
Oak Street	Forest Ridge Drive	Orchard Road

Rempe-Sharpe has provided an estimate of cost associated with the design and construction management of the project. This estimate is based on the hours required to perform the requested engineering services. Construction management of patching and sidewalk will be included in the agreement. Staff recommends the approval of the engineering agreement with Rempe-Sharpe to perform engineering services for the 2018 Street Maintenance Program in the amount of \$73,078.



REMPE-SHARPE

& Associates, Inc.

Principals

J. Bibby P.E., S.E.
D. Watson P.E.

B. Aderman P.E.
B. Bennett P.E., CFM
N. Dornfeld P.E.
L. Vo P.E.
J. Whitt P.E.

CONSULTING ENGINEERS

324 West State Street
Geneva, Illinois 60134
Phone: 630/232-0827 - Fax: 630/232-1629

January 23, 2018

Village of North Aurora
25 East State Street
North Aurora, Illinois 60542

Attn: Steve Bosco
Village Administrator

Re: 2018 Street Improvement Program

File: NA-602

Dear Mr. Bosco:

Rempe-Sharpe is very pleased to provide this proposal for professional engineering services to design plans, specifications, quantities and estimates for the 2018 Village of North Aurora Street Improvement Program. Our comprehensive scope of services, fee structure, schedule and deliverable product shall be as outlined below:

Streets to be reconstructed in the 2018 Street Improvement Program consist of:

<u>Name</u>	<u>General Project Limits</u>	<u>Length of Improvements</u>	<u>Engineering Cost</u>
Administration			\$ 5,968.00
Juniper / Dogwood	Butternut to Magnolia	2,878 LF	\$ 12,730.00
White Oak / Patterson	Oak to Patterson	11,410 LF	\$ 29,520.50
Oak Street	Orchard to Forest Ridge	1,895 LF	\$ 20,127.50
Sidewalk	Village Wide	3,500 SF	\$ 4,732.00
TOTAL 2018 PROGRAM		16,183 Lineal Feet and 3,500 SF Sidewalk	\$ 73,078.00

A. ENGINEERING SCOPE OF SERVICE:

1. DESIGN CYCLE

Rempe-Sharpe shall provide detailed engineering for the 2018 Street Improvement Program:

- Coordinate pavement cores and borings;
- Locate butt joints and removal and replacement and Class "D" patching limits;
- Base sheet plots;
- Pavement calculations to design cross section based upon soils report;
- Detailed plan design;
- Design of all requisite storm sewer extensions, additional inlets, and drainage upgrades to area;
- Sidewalk curb, parkway and driveway restoration;
- Detailed grading and construction details; and,
- Specifications, project quantities and estimate.

2. BID CYCLE ASSISTANCE

Engineer shall provide bid cycle assistance including addenda, bid tabulation, and recommendation memo.

3. CONSTRUCTION PHASE – PERIODIC OBSERVATION

Rempe-Sharpe shall provide the following services:

- Pre-construction meeting;
- Coordinate the borings and materials testing by others;
- Inspect all base cut, preparation and proof roll;
- Inspect undercuts and measure quantities;
- Inspect aggregate base placement lower lift and Geotech fabric;
- Identify sidewalk and curb removal;
- Inspect curb and gutter pour;
- Inspect sidewalk pour;
- Inspect final base and proof roll;
- Inspect binder course, surface course
- Landscaping;
- Quantity measurement;
- Payout review; and,
- Final punch list coordination.

All engineering scope as itemized (1-3) to be provided for a fee not to exceed
..... **\$73,078.00**

C. EXCLUSIONS

Engineer excludes material testing, by others (Rempe-Sharpe to coordinate proposal, stake road cores and borings by others), and review Geotech Report for use in design and construction inspection.

D. ADDITIONAL SERVICES

Owner shall pay Engineer for any Additional Services rendered under this Agreement as follows:

For additional services which are performed by the Engineer and his Staff, the Owner shall pay the Engineer at the Engineer's Hourly Rates and Expense Charges as stipulated in EXHIBIT "A" attached to this Agreement. Full payment shall be due and payable upon receipt of a detailed statement from the Engineer.

For additional services which are not normally performed by the Engineer and are subcontracted to other parties, the Engineer shall be paid all his costs and expenses. Full payment shall be due and payable upon receipt of a detailed statement from the Engineer.

E. DEFINITION OF DIRECT PROJECT EXPENSES

Direct Project Expenses shall mean the actual expenses incurred by the Engineer directly or indirectly in connection with the Project for transportation costs, postage, reproduction of reports, Drawings, Specifications and similar project related documents; and construction staking supplies.

F. PERIOD OF SERVICE

The scope of design services shall be February 1, 2018 to December 1, 2018.

G. OWNER'S RESPONSIBILITIES

Provide all criteria and full information as to the Owner's requirements for the Project, including design objectives and constraints, space, capacity and performance requirements, flexibility and expandability, and any budgetary limitations; and furnish copies of all design and construction standards which the Owner will require to be included in the drawings.

Assist the Engineer by placing at his disposal all available information pertinent to the Project including previous reports and any other data relative to design or construction of the Project.

Village of North Aurora shall furnish to the Engineer, as required for performance of Engineer's Basic Services, data prepared by or services of others including without limitation borings and subsurface explorations, hydrographic surveys, laboratory tests and inspections of samples, material and equipment; appropriate professional interpretations of all of the foregoing; environmental assessment and impact statements; property, boundary, easement, right-of-way, topographic and utility surveys. All of which Engineer shall rely upon to complete reviews.

Arrange for access to and make all provisions for the Engineer to enter upon public and private property as required for the Engineer to perform his services.

Examine all studies, reports, sketches, Drawings, Specifications, proposals and other documents presented by the Engineer, and render decisions pertaining thereto within a reasonable time so as not to delay the services of the Engineer.

Designate a person to act as the Owner's Representative with respect to the services to be rendered under this Agreement. Such person shall have complete authority to transmit instructions, receive information, interpret and define the Owner's policies and decision with respect to materials, equipment, elements and systems pertinent to the Engineer's services.

Give prompt written notice to the Engineer whenever the Owner observes or otherwise becomes aware of any development that affects the scope or timing of the Engineer's services.

Furnish, or direct the Engineer to provide, necessary Additional Services as stipulated in this Agreement or other services as required.

Require the construction contractor(s) who implement Engineer's designs, drawings and specifications to name the Engineer as additional insured while construction work is in progress.

H. TERMINATION

This Agreement may be terminated by Owner at its sole discretion upon thirty (30) days written notice. In addition, the Agreement may be terminated by either party upon thirty (30) days written notice in the event of substantial failure to perform in accordance with the terms hereof by the other party through no fault of the terminating party. In the event of termination hereunder, Engineer shall be paid for all services actually performed to the date of termination.

I. GENERAL CONSIDERATIONS

1. REUSE OF DOCUMENTS

All documents including Drawings and Specifications prepared by Engineer pursuant to this Agreement are instruments of service in respect of the Project. They are not intended or represented to be suitable for reuse by Owner or others on extension of the Project or on any other project. Any reuse without written verification or adaptation by Engineer for the specific purpose intended will be at Owner's sole risk and without liability or legal exposure to Engineer; and Owner shall indemnify and hold harmless Engineer from all claims, damages, losses and expenses including attorney's fees arising or resulting therefrom. Any such verification or adaptation will entitle Engineer to further compensation at rates to be agreed upon by Owner and Engineer.

2. CONTROLLING LAW

This Agreement is to be governed by applicable laws of the State of Illinois.

3. SUCCESSORS AND ASSIGNS

Owner and Engineer each binds himself and his partners, successors, executors, administrators, assigns and legal representatives to the other party to this Agreement and to the partners, successors, executors, administrators, assigns and legal representatives of such other party, in respect to all covenants, agreements and obligations of this Agreement.

Neither Owner nor Engineer shall assign, sublet or transfer any rights under or interest in (including, but without limitation, moneys that may become due or moneys that are due) this Agreement without the written consent of the other, except as stated above and except to the extent that the effect of this limitation may be restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assigner from any duty or responsibility under this Agreement. Nothing contained in this paragraph shall prevent Engineer from employing such independent consultants, associates and subcontractors as he may deem appropriate to assist him in the performance of services hereunder. Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than Owner and Engineer.

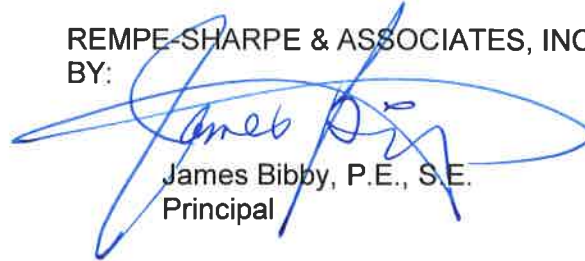
Mr. Steve Bosco
Village of North Aurora

January 23, 2018
2018 Street Improvement Program
Page 5 of 6

If this engineering proposal meets with your approval, please sign in the space provided and return a signed copy to us.

Very truly yours,

REMPE-SHARPE & ASSOCIATES, INC.
BY:



James Bibby, P.E., S.E.
Principal

This proposal from Rempe-Sharpe & Associates, Inc. setting forth certain engineering services and fees relative to the 2018 Street Improvement Program, is hereby accepted and Rempe-Sharpe is authorized to proceed.

Signed this _____ day of _____, 2018

By: _____
Steve Bosco
Village Administrator

PC: John Laskowski, P.E., Village of North Aurora
Bill Hannah, Village of North Aurora

EXHIBIT "A"
FOR SERVICES RENDERED TO VILLAGE OF NORTH AURORA
SCHEDULE OF ENGINEERING SERVICE CHARGES
BY REMPE-SHARPE & ASSOCIATES, INC.

EFFECTIVE TIME PERIOD FOR THIS REVISED SCHEDULE:
JANUARY 1, 2018 TO DECEMBER 31, 2018

A-1 SCHEDULE OF ENGINEER'S HOURLY RATE CHARGES

<u>EMPLOYEE CLASSIFICATION</u>	<u>MAXIMUM HOURLY RATE</u>
PRINCIPAL ENGINEER	\$128.50/HR
SENIOR PROJECT ENGINEER	\$106.00/HR
PROJECT ENGINEER	\$102.00/HR
DESIGN OR CONSTRUCTION ENGINEER (GRADE 1)	\$98.00/HR
DESIGN OR CONSTRUCTION ENGINEER (GRADE 2)	\$85.00/HR
SENIOR TRAFFIC ENGINEER	\$88.00/HR
DESIGN TECHNICIAN (GRADE 1)	\$83.50/HR
DESIGN TECHNICIAN (GRADE 2)	\$65.00/HR
CADD DRAFTING TECHNICIAN (GRADE 1)	\$69.50/HR
DRAFTING TECHNICIAN (GRADE 2)	\$56.00/HR
DRAFTING TECHNICIAN (GRADE 3)	\$43.00/HR
SURVEYING PARTY CHIEF	\$78.00/HR
SURVEYING TECHNICIAN (GRADE 1)	\$63.00/HR
SURVEYING TECHNICIAN (GRADE 2)	\$43.00/HR
CONSTRUCTION INSPECTOR (GRADE 1)	\$80.00/HR
CONSTRUCTION INSPECTOR (GRADE 2)	\$66.00/HR
CONSTRUCTION TECHNICIAN	\$53.00/HR
ADMINISTRATIVE ASSISTANT	\$59.00/HR
CLERK TYPIST	\$47.00/HR

A-2 COMPENSATION FOR DIRECT PROJECT REIMBURSABLE COSTS

THE ENGINEER SHALL BE REIMBURSED AT HIS ACTUAL COST FOR ALL EXPENSES AND/OR COSTS INCURRED DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS PROJECT, SUCH AS PRINTING, TRAVEL, STAKING SUPPLIES, ETC.

THE ENGINEER'S REIMBURSEMENT FOR TRAVEL EXPENSES SHALL BE IRS STANDARD PER MILE OF TRAVEL.

A-3 COMPENSATION FOR SUB-CONTRACTED SERVICES

THE ENGINEER SHALL BE REIMBURSED FOR ALL COSTS AND EXPENSES INCURRED BY THE ENGINEER FOR ALL SERVICES NOT NORMALLY PERFORMED BY THE ENGINEER WHICH ARE SUB-CONTRACTED TO OTHER PARTIES WITH THE OWNER'S APPROVAL.

**PRELIMINARY SUMMARY OF QUANTITIES
2018 STREETS IMPROVEMENT PROGRAM
VILLAGE OF NORTH AURORA**

1/12/2018

BY: LV

NO.	STREET NAMES	PLAN VIEW SHEETS	LENGTH (FEET)	WIDTH EP/EP (FEET)	PAVEMENT AREA (SY)	CURB TYPE	CURB & GUTTER R & R (ESTIMATED)	SIDEWALK R & R (ESTIMATED)
1	OAK STREET	1.5	1,895	64 (VARIES)	13,850	B6.12, E/P	280	3,791
2	WHITE OAK DRIVE	6.5	3,815	26	13,340	B6.12	1,527	7,631
3	WHITE OAK COURT	0.5	575	26	1,606	B6.12	231	1,151
4	SPRING COURT	0.5	280	26	790	B6.12	112	560
5	WHITNEY COURT	0.5	168	26	990	B6.12	68	336
6	STEVENS COURT	0.5	445	26	1,850	B6.12	178	890
7	WEST MOOSEHEART ROAD	1	1,135	26	3,370	B6.12	455	2,271
8	BRENSON COURT	0.5	275	26	1,265	B6.12	111	551
9	WILKINSON LANE	2	2,035	26	5,985	B6.12	815	4,071
10	GARDINER COURT	0.5	155	26	930	B6.12	63	310
11	CARLSON COURT	0.5	330	26	1,420	B6.12	132	660
12	CROMWELL STREET	0.5	270	26	895	B6.12	108	540
13	MARTINSON COURT	0.5	402	26	1,555	B6.12	161	804
14	PATTERSON AVENUE	1.5	1,525	26	4,720	B6.12	611	3,050
15	DOGWOOD DRIVE	1	800	26	2,335	M3.12	320	1,600
16	DOGWOOD COURT	0.5	338	26	1,340	M3.12	136	676
17	JUNIPER DRIVE	1.5	1,740	26	5,135	M3.12	696	3,480
TOTAL		20	16,183		61,376		6,004	32,372

2018 STREET IMPROVEMENTS
VILLAGE OF NORTH AURORA

CONTRACT ADMINISTRATION		PRINCIPAL ENGINEER	PROJECT ENGINEER	DESIGN / TRAFFIC CONSTRUCTION ENGINEER	CADD DRAFTING TECHNICIAN	SURVEY PARTY CHIEF	SURVEYING TECHNICIAN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE ASSISTANT	CLERK TYPIST	DIRECT COSTS	MILEAGE
RATE		HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS		
1 Advertisement, Letting, Addendum, Bid Tabulation, Memo Preparation for Board, 90% Design Completion to Village of North Aurora for Review, Meetings, Base Plans and Specifications. (Some work is included in NA-600).		8	20	4	20				4	12	\$50.00	\$40.00
TOTAL HOURS		8	20	4	20				4	12		
SUBTOTAL COST		\$1,028.00	\$2,040.00	\$340.00	\$1,670.00				\$236.00	\$564.00	\$50.00	\$40.00
TOTAL CONTRACT ADMINISTRATION COST		\$5,968.00										

JUNIPER / DOGWOOD STREET IMPROVEMENTS		PRINCIPAL ENGINEER	PROJECT ENGINEER	DESIGN / TRAFFIC CONSTRUCTION ENGINEER	CADD DRAFTING TECHNICIAN	SURVEY PARTY CHIEF	SURVEYING TECHNICIAN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE ASSISTANT	CLERK TYPIST	DIRECT COSTS	MILEAGE
RATE		HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS		
1 Phase I: Preliminary Engineering, Aerial Base Maps/Sheets, Miscellaneous Survey		1	2		4					1	\$50.00	\$25.00
2 Phase II: Design, Permitting, Estimate of Cost, Soil Borings, Coordination with Utility Companies.			24	4	24	2	2	2		2	\$50.00	\$50.00
3 Phase III: Construction Inspection; Pay Estimates, Change Orders, Construction Staking, Punch Listing, Close-Out			1		1	4	28	56		1	\$200.00	\$125.00
TOTAL HOURS		1	27	4	29	6	30	58		4		
SUBTOTAL COST		\$128.50	\$2,754.00	\$340.00	\$2,421.50	\$468.00	\$1,290.00	\$4,640.00		\$188.00	\$300.00	\$200.00
TOTAL JUNIPER / DOGWOOD STREET IMPROVEMENT COST		\$12,730.00										

WHITE OAK / PATTERSON STREET IMPROVEMENTS		PRINCIPAL ENGINEER	PROJECT ENGINEER	DESIGN / TRAFFIC CONSTRUCTION ENGINEER	CADD DRAFTING TECHNICIAN	SURVEY PARTY CHIEF	SURVEYING TECHNICIAN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE ASSISTANT	CLERK TYPIST	DIRECT COSTS	MILEAGE
RATE		HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS		
1 Phase I: Preliminary Engineering, Aerial Base Maps/Sheets, Miscellaneous Survey		1	16		8					1	\$50.00	\$50.00
2 Phase II: Design, Permitting, Estimate of Cost, Soil Borings, Coordination with Utility Companies.			40	16	130	2	2	2		2	\$50.00	\$50.00
3 Phase III: Construction Inspection; Pay Estimates, Change Orders, Construction Staking, Punch Listing, Close-Out			1		2	8	8	104		1	\$400.00	\$50.00
TOTAL HOURS		1	57	16	140	10	10	106		4		
SUBTOTAL COST		\$128.50	\$5,814.00	\$1,360.00	\$11,690.00	\$780.00	\$430.00	\$8,480.00		\$188.00	\$500.00	\$150.00
TOTAL WHITE OAK / PATTERSON STREET IMPROVEMENTS COST		\$29,520.50										

OAK STREET IMPROVEMENTS		PRINCIPAL ENGINEER	PROJECT ENGINEER	DESIGN / TRAFFIC CONSTRUCTION ENGINEER	CADD DRAFTING TECHNICIAN	SURVEY PARTY CHIEF	SURVEYING TECHNICIAN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE ASSISTANT	CLERK TYPIST	DIRECT COSTS	MILEAGE
RATE		HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS	HRS		
1 Phase I: Preliminary Engineering, Aerial Base Maps/Sheets, Miscellaneous Survey		1	8		4					1	\$50.00	\$50.00
2 Phase II: Design, Permitting, Estimate of Cost, Soil Borings, Coordination with Utility Companies.			24	16	32	4	4	4		2	\$50.00	\$50.00
3 Phase III: Construction Inspection; Pay Estimates, Change Orders, Construction Staking, Punch Listing, Close-Out			1	8	2	8	8	112		1	\$100.00	\$200.00
TOTAL HOURS		1	33	24	38	12	12	116		4		
SUBTOTAL COST		\$128.50	\$3,366.00	\$2,040.00	\$3,173.00	\$936.00	\$516.00	\$9,280.00		\$188.00	\$200.00	\$300.00
TOTAL OAK STREET IMPROVEMENTS COST		\$20,127.50										

STREET IMPROVEMENTS PROJECT		COST
1 ADMINISTRATIVE		\$5,968.00
2 JUNIPER / DOGWOOD		\$12,730.00
3 WHITE OAK / PATTERSON		\$29,520.50
4 OAK STREET		\$20,127.50
5 SIDEWALK PROGRAM		\$4,732.00
TOTAL		\$73,078.00

PRELIMINARY ENGINEER'S COST ESTIMATE
2018 STREET IMPROVEMENT PROGRAM
VILLAGE OF NORTH AURORA

BY: EJ/LV
1/12/2018

NA-502

BY: EJV 1/17/2018				OAK STREET		WHITE OAK DR & CT / SPRING / WHITNEY		STEVENS		MOOSEHEART / BRENSON		MARTINSON		PATTERSON / CROMWELL		WILKINSON / GARDINER		CARLSON		JUNIPER		DOGWOOD / COURT		SIDEWALK PROGRAM ESTIMATE		TOTAL COST	
NO	DESCRIPTION	TOTAL UNITS	UNIT PRICE	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST	QUANTITY	SUBTOTAL COST		QUANTITY
1	Mobilization	1	LS	\$25,000.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00	0.10	\$2,500.00		0	\$25,000.00
2	Traffic Control and Protection	1	LS	\$20,000.00	0.50	\$10,000.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00	0.056	\$1,120.00		0	\$20,080.00
3	Uncontaminated Soil Certification	1	LS	\$4,000.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00	0.10	\$400.00		0	\$4,000.00
4	Removal and Disposal of Unsuitable Material	461	CY	\$25.00	461	\$11,525.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		0	\$11,525.00
5	Porous Granular Embankment	461	CY	\$30.00	461	\$13,830.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		0	\$13,830.00
6	Geotechnical Fabric for Ground Stabilization, 8 oz	1,400	SY	\$2.00	1,400	\$2,800.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00		0	\$2,800.00
7	Class D Patch, 6", Mill and Binder, N50	3,400	SY	\$40.00		\$0.00	300	\$12,000.00	100	\$4,000.00	500	\$20,000.00	100	\$4,000.00	600	\$24,000.00	700	\$28,000.00	200	\$8,000.00	500	\$20,000.00	400	\$16,000.00		0	\$136,000.00
8	Inlet and Pipe Protection	160	EA	\$125.00	19	\$2,375.00	48	\$6,000.00	4	\$500.00	14	\$1,750.00	4	\$500.00	18	\$2,250.00	22	\$2,750.00	3	\$375.00	17	\$2,125.00	11	\$1,375.00		0	\$20,000.00
9	Topsoil Furnish and Place, 6"	4,000	SY	\$5.00	422	\$2,110.00	1,076	\$5,380.00	99	\$495.00	314	\$1,570.00	90	\$450.00	399	\$1,995.00	487	\$2,435.00	74	\$370.00	387	\$1,935.00	252	\$1,260.00	400	2000	\$20,000.00
10	Seeding Class 1, with Fertilizers	4,000	SY	\$1.50	422	\$633.00	1,076	\$1,614.00	99	\$148.50	314	\$471.00	90	\$135.00	399	\$598.50	487	\$730.50	74	\$111.00	387	\$580.50	252	\$378.00	400	600	\$6,000.00
11	Erosion Control Blanket	4,000	SY	\$2.00	422	\$844.00	1,076	\$2,152.00	99	\$198.00	314	\$628.00	90	\$180.00	399	\$798.00	487	\$974.00	74	\$148.00	387	\$774.00	252	\$504.00	400	800	\$8,000.00
12	Aggregate Shoulder Wedge, 4" Wedge, 2' Wide	132	TN	\$36.00	130	\$4,680.00		\$0.00		\$0.00		\$0.00	2	\$72.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		0	\$4,752.00
13	Aggregate Base Course, Type B, 6"(HMA Driveways)	775	SY	\$8.00		\$0.00	102	\$816.00	58	\$464.00	67	\$536.00	14	\$112.00	129	\$1,032.00	151	\$1,208.00	18	\$144.00	133	\$1,064.00	53	\$424.00	50	400	\$6,200.00
14	Aggregate Base Course, Type B, 4" (PCC Driveways)	251	SY	\$6.00		\$0.00	5	\$30.00		\$0.00	40	\$240.00	5	\$30.00	31	\$186.00	40	\$240.00	18	\$108.00	44	\$264.00	18	\$108.00	50	300	\$1,506.00
15	Preparation of Base	61,375	SY	\$1.00	13,850	\$13,850.00	16,725	\$16,725.00	1,850	\$1,850.00	4,635	\$4,635.00	1,555	\$1,555.00	5,615	\$5,615.00	6,915	\$6,915.00	1,420	\$1,420.00	5,135	\$5,135.00	3675	\$3,675.00		0	\$61,375.00
16	Aggregate for Base Repair	754	TN	\$25.00	168	\$4,200.00	203	\$5,075.00	23	\$575.00	57	\$1,425.00	19	\$475.00	69	\$1,725.00	85	\$2,125.00	18	\$450.00	63	\$1,575.00	45	\$1,125.00	4	100	\$18,850.00
17	Bituminous Materials (Prime Coat) Includes Aggregate as Required	8,221	GL	\$1.00	3,465	\$3,465.00	1,673	\$1,673.00	185	\$185.00	464	\$464.00	156	\$156.00	562	\$562.00	692	\$692.00	142	\$142.00	514	\$514.00	368	\$368.00		0	\$8,221.00
18	Bituminous Materials (Tack Coat) Includes Aggregate as Required	6,150	GL	\$1.00	1,385	\$1,385.00	1,675	\$1,675.00	185	\$185.00	464	\$464.00	156	\$156.00	565	\$565.00	695	\$695.00	142	\$142.00	515	\$515.00	368	\$368.00		0	\$6,150.00
19	HMA Binder Course, IL-19.0, N-50	8,680	TN	\$60.00	3,190	\$191,400.00	1,925	\$115,500.00	215	\$12,900.00	535	\$32,100.00	180	\$10,800.00	650	\$39,000.00	800	\$48,000.00	165	\$9,900.00	595	\$35,700.00	425	\$25,500.00		0	\$520,800.00
20	HMA Surface Course, Mix D, N-50	7,085	TN	\$64.00	1,595	\$102,080.00	1,925	\$123,200.00	215	\$13,760.00	535	\$34,240.00	180	\$11,520.00	650	\$41,600.00	800	\$51,200.00	165	\$10,560.00	595	\$38,080.00	425	\$27,200.00		0	\$453,440.00
21	HMA Surface Course, Mix D, N-50, 4" (Driveways)	171	TN	\$65.00		\$0.00	24	\$1,560.00	14	\$910.00	16	\$1,040.00	4	\$260.00	30	\$1,950.00	35	\$2,275.00	5	\$325.00	31	\$2,015.00	12	\$780.00		0	\$11,115.00
22	Strip Reflective Crack Control Treatment, System B	2,000	LF	\$2.00	2,000	\$4,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		0	\$4,000.00
23	PCC Driveway Pavement, 6"	188	SY	\$80.00		\$0.00	5	\$400.00		\$0.00	40	\$3,200.00	5	\$400.00	31	\$2,480.00	40	\$3,200.00	18	\$1,440.00	44	\$3,520.00	5	\$400.00		0	\$15,040.00
24	PCC Sidewalk, 5", 4" Aggregate Base	35,872	SF	\$6.00	3,791	\$22,746.00	9,678	\$58,068.00	890	\$5,340.00	2,822	\$16,932.00	804	\$4,824.00	3,590	\$21,540.00	4,381	\$26,286.00	660	\$3,960.00	3,480	\$20,880.00	2276	\$13,656.00	3500	21000	\$215,232.00
25	Detectable Warnings	1,620	SF	\$25.00		\$0.00	680	\$17,000.00	20	\$500.00	120	\$3,000.00	40	\$1,000.00	120	\$3,000.00	160	\$4,000.00	20	\$500.00	80	\$2,000.00	80	\$2,000.00	300	7500	\$40,500.00
26	Comb. Concrete Curb and Gutter, TY B6 12, Reinf., 4" Base	5,032	LF	\$22.00	280	\$6,160.00	1,938	\$42,838.00	178	\$3,916.00	566	\$12,452.00	161	\$3,542.00	719	\$15,818.00	878	\$19,316.00	132	\$2,904.00		\$0.00		\$0.00	180	3960	\$110,704.00
27	Comb. Concrete Curb and Gutter, TY M3 12, Reinf., 4" Base	1,332	LF	\$22.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	696	\$15,312.00	456	\$10,032.00	180	3960	\$29,304.00
28	HMA Surface Removal, 4"	47,526	SY	\$4.00		\$0.00	16,726	\$66,904.00	1,850	\$7,400.00	4,635	\$18,540.00	1,555	\$6,220.00	5,615	\$22,460.00	6,915	\$27,660.00	1,420	\$5,680.00	5,135	\$20,540.00	3675	\$14,700.00		0	\$190,10



Memorandum

To: Dale Berman, Village President & Board of Trustees

Cc: Steven Bosco, Village Administrator

From: John Laskowski, Public Works Director

Date: January 31, 2018

Re: Agreement with Rubino Engineering, Inc. for Materials Testing

Materials testing is an important part of the design and construction phases of infrastructure projects. In the design phase of a project, testing identifies the properties of existing infrastructure. Examples of this testing would be boring to identify the strength of the soil to verify a road or foundation could be safely constructed. Bores also help identify the thickness of pavements so this information can be conveyed to the contractor in the plans and specifications. Materials testing is also a critical element of the construction phase because these tests confirm the quality of materials are verify that the materials that were specified were those used in construction.

Proposals for Materials testing were distributed by the Village Engineer to two qualified materials engineering firms. Materials Testing is a specialized professional engineering service. As such there are a limited number of qualified firms available to perform this work. Therefore only two proposals were able to be obtained. The scope of work included test boring, laboratory testing, and documentation of the results. The cost proposals for the work were received in the amount of \$12,400 from TSC Incorporated and \$10,800. Both firms successfully provided materials testing results in 2017. TSC performed testing on the Airport Road project and Rubino on the 2017 Street Maintenance Program. It is staff recommendation to accept the proposal from Rubino Engineeirng Inc. in the amount of \$10,800.



January 30th, 2018

To: John Laskowski
Village of North Aurora
25 East State Street
North Aurora, IL 60542
Phone: 630.897.8228 x 230

Re: Proposal - Geotechnical Exploration
Miscellaneous Infrastructure
Improvements & 2018 Street
Improvements Program
Various Streets, Parking Lots and Alleys
North Aurora, Illinois

Proposal No. Q18.045g

Via email: jlaskowski@northaurora.org

Dear Mr. Laskowski,

Rubino Engineering, Inc. (Rubino) is pleased to submit the following proposal to provide geotechnical engineering services for the above referenced project. Rubino received a request for proposal from Eric Johnson of Rempe-Sharpe via Email on January 25th, 2018.

PROJECT UNDERSTANDING

Rubino understands that the Village of North Aurora is planning miscellaneous infrastructure improvements and street improvements to various streets, parking lots and alleys in North Aurora, Illinois.

The miscellaneous infrastructure improvements include a proposed parking lot, alley reconstruction, new water main and storm sewer.

The street improvements include 4-inch milling and repaving on the various streets.

Information received:

- RFP Email from Eric Johnson of Rempe-Sharpe on January 25th, 2018.
- "NA-600 Miscellaneous Infrastructure Improvements Map" – prepared by Rempe-Sharpe dated January 11th, 2018. (Exhibit 1 shown below)
- "NA-602 2018 Street Improvements Program Map" – prepared by Rempe-Sharpe dated January 11th, 2018. (Exhibit 2 shown below)



Exhibit 1) NA-600 Miscellaneous Infrastructure Improvements Map

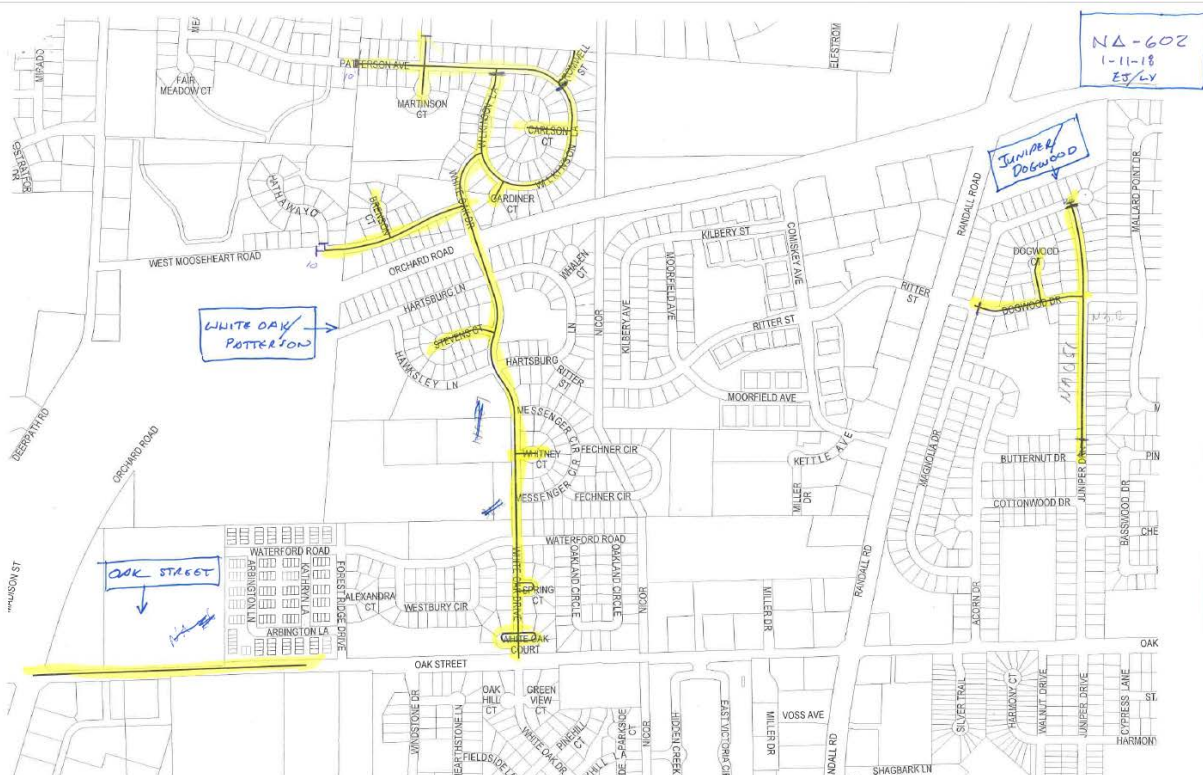


Exhibit 2) NA-602 2018 Street Improvements Program Map

Parking Lot Pavement Design Criteria received: None; however this proposal is based on the following:

- Site grading including cuts and fills being less than 2 feet
- Light Duty Pavement 18-kip ESALS: 30,000
- Heavy Duty Pavement 18-kip ESALS: 60,000
- Pavement Life Expectancy: 15 years

Should any of the information on which this proposal has been based, including as described above, be inconsistent with the planned construction, Rubino requests to be contacted immediately in order to make any necessary changes to this proposal and scope of work.

SCOPE OF SERVICES

The following sections outline the scope of services developed based on the information provided by the client and the information listed above in order to provide a geotechnical exploration the planned project. The exploration will be performed in general accordance with both the requested proposal information and Rubino's current understanding of the project.

Site Access and Traffic Control

Based on current site topography, surface conditions, and project discussions, Rubino anticipates that the proposed boring locations will be accessible to track-mounted Geoprobe 7822DT drill rig and the proposed core locations will be within existing paved areas and will therefore be accessible to a pickup truck.

Traffic control will consist of cones. Flaggers are not anticipated for this project but can be provided for an additional fee.

Rubino anticipates that the drill rig will require a full lane closure along Oak Street with traffic control consisting of cones, approach signage, and flaggers.

Boring and Core Locations

Eight (8) borings and thirty-four (34) cores are requested along various streets, parking lots and alleys in North Aurora, Illinois. The approximate proposed boring locations are shown below. Rubino recommends that the borings and cores be located and surveyed for elevation by others prior to drilling.

To be marked in the field by Rempe-Sharpe prior to mobilization

Pavement Coring

To obtain data to evaluate subsurface conditions within the proposed pavement reconstruction areas, Rubino proposes to perform the pavement core with a Milwaukee Drill and a two foot diamond-bit core barrel in the pavement core locations.

NUMBER OF CORES WITH SUBBASE THICKNESS	MAX DEPTH (FEET BEG*)	LOCATION (TO BE MARKED IN THE FIELD BY REMPE-SHARPE PRIOR TO MOBILIZATION)
4	2 feet	Miscellaneous Infrastructure Improvements
30	2 feet	2018 Street Improvements Program

*BEG = below existing grade

Boring Depths

To obtain data to evaluate subsurface conditions within the proposed development/construction areas, Rubino proposes to drill soil borings as specified below.

NUMBER OF BORINGS	DEPTH (FEET BEG*)	LOCATION (TO BE MARKED IN THE FIELD BY REMPE-SHARPE PRIOR TO MOBILIZATION)
8	9 feet	Miscellaneous Infrastructure Improvements

*BEG = below existing grade

SPT - Soil Sampling

Soil sampling will include split-barrel samples (ASTM D 1586) or thin-walled tube samples on cohesive soils (ASTM D 1587) at 2 ½ - foot intervals to a depth of 9 feet.

If unsuitable bearing soils are encountered within the borings as proposed herein, the borings will be extended an additional 5 feet to attempt to end the borings in suitable soils. If unsuitable soils persist at the end of an additional 5 feet the client will be contacted prior to demobilizing.

Unsuitable soils will be defined by field personnel using the following criteria:

- Cohesive soils with an N value less than or equal to 6.
- Granular soils with an N-value less than 10.
- Black cohesive or silty soil with visible signs of organic matter and / or organic odor and low blow counts as described above.

Completion of Cores and Borings

Upon completion of drilling, the borings will be backfilled with soil cuttings and capped with similar existing material or asphalt cold patch. Some damage to ground surface may result from the drilling operations near the work areas and along ingress/egress pathways. Rubino will attempt to minimize such damage, but no restoration other than backfilling the soil test borings is included.

It should be noted that over time, some settlement may occur in the bore hole. If Rubino is requested to return to the site for the purpose of filling any bore holes that may have settled, additional time and material charges may apply.

Laboratory Testing

The soil samples obtained during the field exploration program will be transported to the laboratory for classification and a limited number of laboratory tests. The nature and extent of the

laboratory testing program is at the discretion of Rubino Engineering, Inc. and will depend upon the subsurface conditions encountered during drilling.

Laboratory testing will be performed in accordance with ASTM procedures and may include examination of selected samples to evaluate the soils' index properties and relative strength characteristics.

Based on the proposed quantity of soil borings, anticipated depths, and project type, a list of the anticipated laboratory tests are summarized below.

LABORATORY TEST	ESTIMATED QUANTITY	SAMPLE TYPE
Atterberg Limits	4	Split spoon, bulk, or Shelby Tube
Hydrometer	2	Split spoon, bulk, or Shelby Tube
Natural Moisture Content	32	Shelby Tube, Cohesive Samples
Organic Content	8	Split spoon, bulk, or Shelby Tube

GEO REPORT

Upon completion of field and laboratory work, Rubino will prepare a geotechnical engineering report using the collected data. The geo report will include the following:

- *Summary of client-provided project information and report basis*
- *Overview of encountered subsurface conditions*
- *Overview of field and laboratory tests performed including results*
- *Geotechnical recommendations pertaining to:*
 - *Subgrade preparation and cut / fill recommendations*
 - *Pavements, including subgrade pavement sections for bituminous and Portland Cement Concrete (PCC) pavements*
 - *Utility Improvements, including suitability of subgrade soils to support trench construction*
- *Construction considerations, including temporary excavation and construction control of water.*
- *Core Location Plan*
- *Photo documentation of field conditions and core specimens*
- *Subbase stone thickness*

An electronic copy of the report will be provided. The report will be addressed to the Village of North Aurora.

PROJECT SCHEDULE

Rubino proposes to initiate work on this project within 5 working days after receiving written authorization to proceed and we will follow the schedule below in order to complete the project:

Task	Number of Working Days
Utility clearance and rig mobilization	10
Field work including site layout and drilling	5
Laboratory Testing	10
Preparation of the Geotechnical Report	10

Project schedules can be affected by weather conditions and changes in scope. If the report needs to be delivered by a specific day, please notify us as soon as possible. Preliminary verbal recommendations can be made to appropriate parties upon completion of the field investigation and laboratory testing. Rubino will need to receive a signed copy of this proposal intact prior to mobilizing the drill rig.

SPECIAL INSTRUCTIONS

Rubino will coordinate contacting the Utility “One-Call” for public utility clearance prior to the start of drilling activities. It is Rubino's experience that this service does not mark the locations of privately owned utilities. This proposal is based on private utility lines and other subsurface appurtenances being located in the field by others prior to our mobilization.

FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a lump-sum basis. Based on the scope of services outlined above, the lump-sum fee will be:

Geotechnical	Drilling and Report Preparation:	\$ 3,000.00	Lump Sum
Traffic Control	Flaggers and approach signage (\$1,000 x 1 day):	\$ 1,000.00	Total
Pavement	Pavement Cores (\$200 x 34 cores)	\$ 6,800.00	Total
		\$10,800.00	Grand Total

Please see the attached fee schedule for additional unit rates for services requested after issuing the geotechnical report (drawing / spec review, scope or site layout change, etc.).

Scope Limitations

Project services do not include a site evaluation to determine the presence or absence of wetlands, hazardous substances, or toxic materials.

Rock coring is not included in the scope of this exploration, therefore, the character and continuity of refusal materials, if encountered, can be determined only with a more comprehensive scope of services. Therefore, the borings will be advanced to the depths referenced above, or to refusal, whichever is shallower.

Boring, sampling and testing requirements are a function of the subsurface conditions encountered. The proposed lump-sum fee is based on the use of shallow foundations to support the planned construction and the existence of adequate bearing materials being encountered within the proposed boring depths. Should conditions be encountered which require a deepening of borings or additional investigation, Rubino will notify you to discuss modifying the outlined

scope of services. Additional work beyond the lump-sum fee will not be performed without your prior authorization.

AUTHORIZATION

If this proposal is acceptable to you, Rubino will perform the work in accordance with the attached General Conditions that are incorporated into and made a part of this proposal. Please sign below as notice to proceed and return one copy of this proposal intact to our office. Rubino will proceed with the work upon receipt of authorization.

Rubino appreciates the opportunity to offer our services for this project and we look forward to working with your company. Please contact Rubino with questions pertaining to this proposal or requests for additional services.

Respectfully submitted,
RUBINO ENGINEERING, INC.



Mike Waldron, PE
Geotechnical Department Manager



Michelle A. Lipinski, PE
President

**RUBINO ENGINEERING, INC. IS:
AN AASHTO-ACCREDITED LABORATORY
IDOT PREQUALIFIED
IDOT DBE-CERTIFIED (100% WOMAN-OWNED)**

MAL/file

Attachments: Proposal Acceptance and Data Sheet
 Schedule of Services and Fees
 General Conditions

**This is an electronic copy. Hard Copies of this proposal are available upon request.

PROPOSAL ACCEPTANCE:

AGREED TO, THIS _____ DAY OF _____, 201__.
BY (please print): _____
TITLE: _____
COMPANY: _____
SIGNATURE: _____

PROJECT INFORMATION:

1. Project Name: _____
2. Project Location: _____
3. Your Job No: _____ Purchase Order No.: _____
4. Project Manager: _____ Telephone No.: _____
5. Site Contact: _____ Telephone No.: _____
6. Number and Distribution of Reports:
() Copies To: _____ () Copies To: _____

Attn: _____ Attn: _____
Email: _____ Email: _____

() Copies To: _____ () Copies To: _____

Attn: _____ Attn: _____
Email: _____ Email: _____
7. Invoicing Address: _____

Attn: _____
Email: _____
8. Other Pertinent Information Or Previous Subsurface Information Available:

Rubino Engineering, Inc.
2018 Schedule of Geotechnical Services & Fees

ENGINEERING

Professional and Technical Services for site evaluation, field supervision, analysis of test data and engineering recommendations and consultation:

Principal Engineer	Per Hour	\$	185.00
Project Engineer/Manager	Per Hour	\$	125.00
Engineering Field Technician / Field Engineer / Field Geologist	Per Hour	\$	95.00
Administrative Assistant	Per Hour	\$	65.00

SUBSURFACE EXPLORATION

Mobilization and moving of truck-mounted drilling equipment and crew (50-mile radius)	Per Trip	\$	550.00
All-Terrain Vehicle (ATV) Usage Surcharge	Per Day	\$	195.00
Boring Layout - Two-man crew (2 hour minimum)	Per Hour	\$	166.00
Soil Sampling using split-barrel sampler (ASTM D-1586) 2.5-foot intervals to 15 feet and 5-foot intervals thereafter, 3-1/4" E.D. HAS:			

Depth Range		
Feet	Easy Drilling*	Hard Drilling**
0 - 25	\$24.50	\$27.00
25 - 50	\$26.50	\$29.00
50 - 72	\$30.50	\$31.00
75 - 100	\$32.00	\$33.50

* Less than 50 blows per foot or a Qp of 4 tsf

** 50 blows or more per foot, Qp more than 4 tsf, or strata containing coarse gravel or cobbles

Hourly Rate Drilling (difficult or unusual conditions, hard material, boulders, rubble, etc.)	Per Hour	\$	275.00
Thin Wall Tubes (ASTM D-1587)	Each	\$	50.00

LABORATORY TESTING

Moisture Content Test / Visual Classification	Each	\$	6.00
Atterberg Limits Determination (LL, PL)	Each	\$	85.00
Combined Hydrometer & Sieve Analysis	Each	\$	130.00
Sieve Analysis (washed)	Each	\$	85.00
Unconfined Compression Test, Tube Sample	Each	\$	35.00
Unconfined Compression Test, with Stress-Strain Curve	Each	\$	55.00
Density Determination	Each	\$	15.00
Specific Gravity Determination	Each	\$	65.00
Organic Content Determination Test (wet combustion)	Each	\$	25.00
ASTM D698 - AASHTO T99 (Standard Proctor)	Each	\$	195.00
ASTM D1557 - AASHTO T180 (Modified Proctor)	Each	\$	215.00
One-Dimensional Consolidation Test (ASTM D-2435)	Each	\$	750.00
pH Testing	Each	\$	15.00
Triaxial Testing (TXC-CIU) 3-Point Envelope	Each	\$	1,000.00

FEE REMARKS

- 1) All fees and services are provided in accordance with the attached Rubino General Conditions.
- 2) Unit prices/rates are in effect for 12 months from the date of this proposal and are subject to change without notice thereafter.
- 3) Overtime rates are applicable for services performed in excess of 8 hours per day Monday through Friday, before 8:00 AM or after 5:00 PM, and for all hours worked on Saturdays, Sundays and holidays. The overtime rate is 1.5 times the applicable hourly rate.
- 4) All rates are billed on a portal-to-portal basis.
- 5) Standby time due to delays beyond Rubino's control will be charged at the applicable hourly rate.
- 6) Transportation and per diem are charged at the applicable rates.
- 7) Rates involving mileage (including transportation, mobilization, vehicle and trip charges) are subject to change based upon increases in the national average gasoline price.
- 8) A minimum charge of 4 hours applies to field testing and observation services.
- 9) Scheduling or cancellation of field testing and observation services is required no less than the working day prior to the date the services are to be performed. Services cancelled without advance and/or inadequate notice will be assessed a minimum charge of 4 hours.
- 10) For all Rubino services, a project management/engineering review charge will be billed for all reports issued for the scheduling/supervision of personnel and the evaluation/review of data and reports.
- 11) The minimum billing increment for time is a half hour.
- 12) A project set-up charge of a minimum of two hours applies to all projects.
- 13) Professional services rates are exclusive of expert deposition or testimony time.
- 14) Drilling and field service rates are based on OSHA Level D personnel protection.
- 15) For sites where drilling is to occur that are not readily accessible to a truck mounted drill rig, rates for rig mobility, site clearing, crew stand-by time, etc. will be charged as applicable.
- 16) If applicable the prevailing wage fees charged under this agreement will be adjusted if there is any change in the applicable prevailing wage rate established by the Illinois Department of Labor.
- 17) Services and fees not listed on this schedule may be quoted on request.

GENERAL CONDITIONS

1. PARTIES AND SCOPE OF SERVICES: Rubino Engineering, Inc. shall include said company or its particular division, subsidiary or affiliate performing the services. "Services" means the specific geotechnical, analytical, testing or other service to be performed by Rubino Engineering, Inc. as set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. Additional services ordered by Client shall also be subject to these General Conditions. "Client" refers to the person or business entity ordering the services to be done by Rubino Engineering, Inc. If Client is ordering the services on behalf of another, Client represents and warrants that it is the duly authorized agent of said party for the purpose of ordering and directing said services. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by the client is adequate and sufficient for Client's intended purpose. Client shall communicate these General Conditions to each and every third party to whom Client transmits any part of Rubino Engineering, Inc.'s services. Rubino Engineering, Inc. shall have no duty or obligation to any third party greater than that set forth in Rubino Engineering, Inc.'s proposal, Client's acceptance thereof and these General Conditions. The ordering of services from Rubino Engineering, Inc., or the reliance on any of Rubino Engineering, Inc.'s work, shall constitute acceptance of the terms of Rubino Engineering, Inc.'s proposal and these General Conditions, regardless of the terms of any subsequently issued document.

2. TESTS AND INSPECTIONS: Client shall cause all tests and inspection of the site, materials and work performed by Rubino Engineering, Inc. or others to be timely and properly performed in accordance with the plans, specifications and contract documents and Rubino Engineering, Inc.'s recommendations. No claims for loss, damage or injury shall be brought against Rubino Engineering, Inc. by Client or any third party unless all tests and inspections have been so performed and unless Rubino Engineering, Inc.'s recommendations have been followed. Client agrees to indemnify, defend and hold Rubino Engineering, Inc., its officers, employees and agents harmless from any and all claims, suits, losses, costs and expenses, including, but not limited to, court costs and reasonable attorney's fees in the event that all such tests and inspections are not so performed or Rubino Engineering, Inc.'s recommendations are not so followed except to the extent that such failure is the result of the negligence, willful or wanton act of omission of Rubino Engineering, Inc., its officers, agents or employees, subject to the limitation contained in paragraph 9.

3. SCHEDULING OF SERVICES: The services set forth in Rubino Engineering, Inc.'s proposal and Client's acceptance will be accomplished in a timely, workmanlike and professional manner by RUBINO ENGINEERING, INC. personnel at the prices quoted. If Rubino Engineering, Inc. is required to delay commencement of the services or if, upon embarking upon its services, Rubino Engineering, Inc. is required to stop or interrupt the progress of its services as a result of changes in the scope of the services requested by Client, to fulfill the requirements of third parties, interruptions in the progress of construction, or other causes beyond the direct reasonable control of Rubino Engineering, Inc., additional charges will be applicable and payable by Client.

4. ACCESS TO SITE: Client will arrange and provide such access to the site as is necessary for Rubino Engineering, Inc. to perform the services. Rubino Engineering, Inc. shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as the result of its services or the use of its equipment; however, Rubino Engineering, Inc. has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires Rubino Engineering, Inc. to restore the site to its former condition, upon written request Rubino Engineering, Inc. will perform such additional services as is necessary to do so and Client agrees to pay Rubino Engineering, Inc. for the cost.

5. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that it has advised Rubino Engineering, Inc. of any known or suspected hazardous materials, utility lines and pollutants at any site at which Rubino Engineering, Inc. is to perform services hereunder, and unless Rubino Engineering, Inc. has assumed in writing the responsibility of locating subsurface objects, structures, lines or conduits. Rubino Engineering, Inc. may use such information in performing its services and is entitled to rely upon the accuracy and completeness thereof. Client agrees to defend, indemnify and save Rubino Engineering, Inc. harmless from all claims, suits, losses costs and expenses, including reasonable attorney's fees as a result of personal injury, death or property damage occurring with respect to Rubino Engineering, Inc.'s performance of its work and resulting to or caused by contact with subsurface of latent objects, structures, lines or conduits where the actual or potential presence and location thereof were not revealed to Rubino Engineering, Inc. by Client and/or by any of Client's subcontractors or sub consultants

6. RESPONSIBILITY: Rubino Engineering, Inc.'s services shall not include determining, supervising or implementing the means, methods, techniques, sequences or procedures of construction. Rubino Engineering, Inc. shall not be responsible for evaluating, reporting or affecting job conditions concerning health, safety or welfare. Rubino Engineering, Inc.'s services or failure to perform same shall not in any way excuse any contractor, subcontractor or supplier from performance of its work in accordance with the contract documents. Rubino Engineering, Inc. has no right or duty to stop the contractor's work.

7. SAMPLE DISPOSAL: Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of Rubino Engineering, Inc.'s report.

8. PAYMENT: Client shall be invoiced once each month for services performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause in writing with said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law), until paid. Client agrees to pay Rubino Engineering, Inc.'s cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees. Rubino Engineering, Inc. shall not be bound by any provision or agreement requiring or providing for arbitration or disputes or controversies arising out of this agreement, any provision wherein Rubino Engineering, Inc. waives any rights to a mechanics' lien, or any provision conditioning Rubino Engineering, Inc.'s right to receive payment for its services upon payment to Client by any third party. These General Conditions are notice, where required, that Rubino Engineering, Inc. shall file a lien whenever necessary to collect past due amounts. Release of such lien shall be given only when payment in full has been received for services duly rendered. Failure to make payment within thirty (30) days of invoice shall constitute a release of Rubino Engineering, Inc. from any and all claims which Client may have, whether in tort, contract or otherwise and whether known or unknown at the time.

9. STANDARD OF CARE: RUBINO ENGINEERING, INC.'S SERVICES WILL BE PERFORMED, ITS FINDINGS OBTAINED AND ITS REPORTS PREPARED IN ACCORDANCE WITH ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, THESE GENERAL CONDITIONS AND WITH GENERALLY ACCEPTED PRINCIPLES AND PRACTICES. IN PERFORMING ITS PROFESSIONAL SERVICES, RUBINO ENGINEERING, INC. WILL USE THAT DEGREE OF CARE AND SKILL ORDINARILY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY MEMBERS OF ITS PROFESSION. RUBINO ENGINEERING, INC. MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, IN CONNECTION WITH ITS SERVICES PROVIDED AS SET FORTH IN ITS PROPOSAL, CLIENT'S ACCEPTANCE THEREOF, AND THESE GENERAL CONDITIONS. STATEMENTS MADE IN RUBINO ENGINEERING, INC. REPORTS ARE OPINIONS BASED UPON ENGINEERING JUDGMENT AND ARE NOT TO BE CONSTRUED AS REPRESENTATIONS OF FACT.

SHOULD RUBINO ENGINEERING, INC. OR ANY OF ITS PROFESSIONAL EMPLOYEES BE FOUND TO HAVE BEEN NEGLIGENT IN THE PERFORMANCE OF ITS WORK, OR TO HAVE MADE AND BREACHED ANY EXPRESSED OR IMPLIED WARRANTY, REPRESENTATION OR CONTRACT, CLIENT, ALL PARTIES CLAIMING THROUGH CLIENT AND ALL PARTIES CLAIMING TO HAVE IN ANY WAY RELIED UPON RUBINO ENGINEERING, INC.'S WORK, AGREE THAT THE MAXIMUM AGGREGATE AMOUNT OF THE LIABILITY OF RUBINO ENGINEERING, INC., ITS OFFICERS, EMPLOYEES AND AGENTS SHALL BE LIMITED TO \$10,000.00 OR THE TOTAL AMOUNT OF THE FEE PAID TO RUBINO ENGINEERING, INC. FOR ITS WORK PERFORMED WITH RESPECT TO THE PROJECT, WHICHEVER AMOUNT IS GREATER.

NO ACTION OR CLAIM, WHETHER IN TORT, CONTRACT OR OTHERWISE, MAY BE BROUGHT AGAINST RUBINO ENGINEERING, INC., ARISING FROM OR RELATED TO RUBINO ENGINEERING, INC.'S WORK, MORE THAN TWO (2) YEARS AFTER THE CESSATION OF RUBINO ENGINEERING, INC.'S WORK HEREUNDER.

10. INDEMNITY: To the fullest extent permitted by law, Client and Rubino Engineering, Inc. each agree to indemnify the other party and the other party's officers, directors, partners, employees, and representatives, from and against losses, damages, and judgments arising from claims by third parties, including reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are found to be caused by a negligent act, error, or omission of the indemnifying party or any of the indemnifying party's officers, directors, members, partners, agents, employees, subcontractors, or subconsultants in the performance of services under this Agreement. If claims, losses, damages, and judgments are found to be caused by the joint or concurrent negligence of Client and Rubino Engineering, Inc., they shall be borne by each party in proportion to its negligence.

11. TERMINATION: This Agreement may be terminated by either party upon seven (7) days' prior written notice. In the event of termination, Rubino Engineering, Inc. shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses and for the completion of such services and records as are necessary to place Rubino Engineering, Inc.'s files in order and/or protect its professional reputation. Failure of Client to make payments when due shall be cause for suspension of services or, ultimately, termination, unless and until Rubino Engineering Inc. has been paid in full all amounts due for services, expenses and other related changes.

12. DISPUTE RESOLUTION: In the event of a dispute arising out of or relating to this Agreement or the services to be rendered hereunder, the Client and Rubino Engineering, Inc. agree to attempt to resolve such disputes in the following manner: 1) The parties agree to attempt to resolve any and all unsettled claims, counterclaims, disputes and other matters in question through direct negotiations between the appropriate representatives of each party; 2) If such negotiations are not fully successful, the parties agree to submit any and all remaining unsettled claims, counterclaims, disputes and other matters in question to mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association, effective as of the date of this Agreement.

13. WITNESS FEES: Rubino Engineering, Inc.'s employees shall not be retained as expert witnesses except by separate written agreement. Client agrees to pay Rubino Engineering, Inc.'s legal expenses, administrative costs and fees pursuant to Rubino Engineering, Inc.'s then current fee schedule for Rubino Engineering, Inc. to respond to any subpoena.

14. NO HIRE: Client agrees not to hire Rubino Engineering, Inc.'s employees except through Rubino Engineering, Inc. In the event Client hires a Rubino Engineering, Inc. employee, Client shall pay Rubino Engineering, Inc. an amount equal to one-half of the employee's annualized salary, with Rubino Engineering, Inc. waiving other remedies it may have.

15. HAZARDOUS MATERIALS: Nothing contained within this agreement shall be construed or interpreted as requiring Rubino Engineering, Inc. to assume the status of an owner, operator, generator, storer, transporter, treater or disposal facility as those terms appear within RCRA, CERCLA, or within any Federal or State statute or regulation governing the generation, transportation, treatment, storage and disposal of pollutants. Client assumes full responsibility for compliance with the provisions of RCRA, CERCLA, and any other Federal or State statute or regulation governing the handling, treatment, storage and disposal of pollutants.

16. PROVISIONS SEVERABLE: The parties have entered into this agreement in good faith and it is the specific intent of the parties that the terms of the General Conditions be enforced as written. In the event any of the provisions of these General Conditions should be found to be unenforceable, it shall be stricken and the remaining provisions shall be enforceable.

17. ENTIRE AGREEMENT: This agreement constitutes the entire understanding of the parties, and there are no representations, warranties or undertakings made other than as set forth herein. This agreement may be amended, modified or terminated only in writing, signed by each of the parties hereto.

Rubino Engineering, Inc.

**VILLAGE OF NORTH AURORA
MEMORANDUM**

DATE: February 1, 2018

TO: Village Board, Mayor Berman

CC: Steven Bosco, Village Administrator
John Laskowski, Public Works Director

FROM: Paul Young, Water Operations Superintendent

SUBJECT: **West Treatment Plant MIOX Unit Purchase for \$116,730.0**

In order to provide safe drinking water for village businesses and residents, the water supply is treated. The village treatment plants use MIOX on-site generators to produce liquid sodium hypochlorite which we feed to the supply water for precautionary disinfectant. A sodium chloride solution and softened water passes through an electrical current producing liquid sodium hypochlorite.

Almost one year ago the MIOX generators were replaced at our east treatment plant and after a few minor adjustments after their installation, they have been performing at a much higher level than the original units. For this reason, and in an effort to remain compatible with all other existing MIOX components such as brine pumps, brine storage tanks, booster pumps, oxidant storage tanks and injection pumps, staff is seeking Board approval to waive bids and purchase two (2) new MIOX-100 pound per day generation units for the west treatment plant from Johnson Matthey – MIOX Corporation in the amount of **\$116,730.00**

Planning for this purchase entailed calculating the amount of sodium hypochlorite needed on a daily basis, space needs for the new units, current electrical supply and operational needs.

After researching all options including different style MIOX generators (100 pound per day units / 200 pound per day units) and purchasing hypochlorite in bulk vs. making it on-site, staff has concluded that the purchase of two (2) 100 pound per day units would be the most economical and best suit our needs.

The new units have the option of two different operating voltages. Either 204-240 VAC or 3-phase 480 volt. The 3-phase 480 volt option is an additional \$8,250.00 for both units we wish to purchase. 480 volt runs more efficiently and will cost the village less to operate in regards to electric. Also 480 volt electric service currently exists in the room where the units are to be installed thus reducing the installation costs by approximately \$10,000.00.

Once the units have been delivered (14-16 weeks after ordering) we will have installation costs of approximately **\$15,000.00 - \$20,000.00.**

At this time staff has determined it would be beneficial to replace the existing two (2) 500 gallon holding tanks with two (2) new tanks and associated piping. The new tanks would be larger at either 750 gallons each or 1,000 gallons each. The additional capacity will benefit during summer demand peak times and also provide redundancy should one of the units be out of service. Size is yet to be determined according to available space. Staff anticipates this purchase with installation not to exceed **\$22,000.00.**

The MIOX units and their installation are in the budget under account 60.466.4875 in the amount of \$240,000.00 (3 Units).



ON-DEMAND CHEMISTRY

West Water Treatment Plant

North Aurora Water - North Aurora, IL

Supply of Hypochlorite Generation System

Vault™ H100 unit

2

MIOX ON-SITE CHEMICAL GENERATION



PREPARED FOR:

Paul S. Young
Superintendent of Water Operations

North Aurora Water
25 East State Street
North Aurora, IL 60542
P: (630) 897-2662 EXT.229
F: (630) 710-6201
pyoung@northaurora.org

SUBMITTED BY:

Luc La Haie
Sales – Application Engineer
Johnson Matthey – MIOX Corporation
M: (873) 200-1408

PROPOSAL NUMBER:

LL112217TM1 Rev.2



December 14th, 2017

North Aurora Water, IL – West Plant
Water Treatment Plant Chlorine Disinfection System

Attention:

Paul S. Young
Superintendent of Water Operations

Subject:

Supply and Delivery of OSHGS

We are pleased to present our proposal for the supply and delivery of MIOX Corporation On-site Sodium Hypochlorite generators for the North Aurora West WTP project.

We are proposing our industry standard 100 Lbs/d Sodium Hypochlorite unit producing a solution at 0.8% FAC. The standard power requirement is 208-240VAC-1ph, but an optional 3-phase Wye 380-530VAC is also available on request.

The unit enclosure is the same for all MIOX Vault™ Series units, only the electrolytic cell and program parameters differ from one version to the other. This particular unit capacity range is from 15-Lbs/d FAC up to 100-Lbs/d FAC depending on the electrolytic cell selected.

If the customer is interested in Self-Cleaning feature or the Mixed Oxidant technology, these units can easily be converted to either version simply by replacing the electrolytic cell with the appropriate version and updating the PLC program for the selected size. All other equipment and installation stay the same.



We hope you find our information of interest; we are willing to clarify any issues or answer any questions you might have.

Sincerely,

Tom Muilenberg
Director of Commercial Operations - MIOX
Johnson Matthey



Table of Contents

1. System Process Overview	2
1.1. System Process Flow Diagram	2
1.2. System Configuration:.....	3
1.3. Ancillary Equipment	4
2. Scope of Supply by MIOX and Equipment Pricing.....	6
2.1. Equipment Scope of Supply	6
3. Warranty.....	7
4. Terms of Equipment Sale	7
5. Items Not Included in MIOX Proposal	8
6. Telephone Support.....	9
7. Company Information	9

Appendices:

Appendix 1 – Acceptance Form

Appendix 2 – MIOX Terms and Conditions of Purchase

Appendix 3 – OSG Specification Sheet

Appendix 4 – OSG unit general drawing

Appendix 5 – Hydrogen Mitigation System (LBS)

Appendix 6 – Salt Quality Specification

Appendix 7 – Water Quality Specification



1. System Process Overview

MIOX systems consist of an On-Site Generator with associated ancillary equipment and tanks. A brief description of the On-Site Generator and associated ancillary equipment is outlined in this sections.

1.1. System Process Flow Diagram

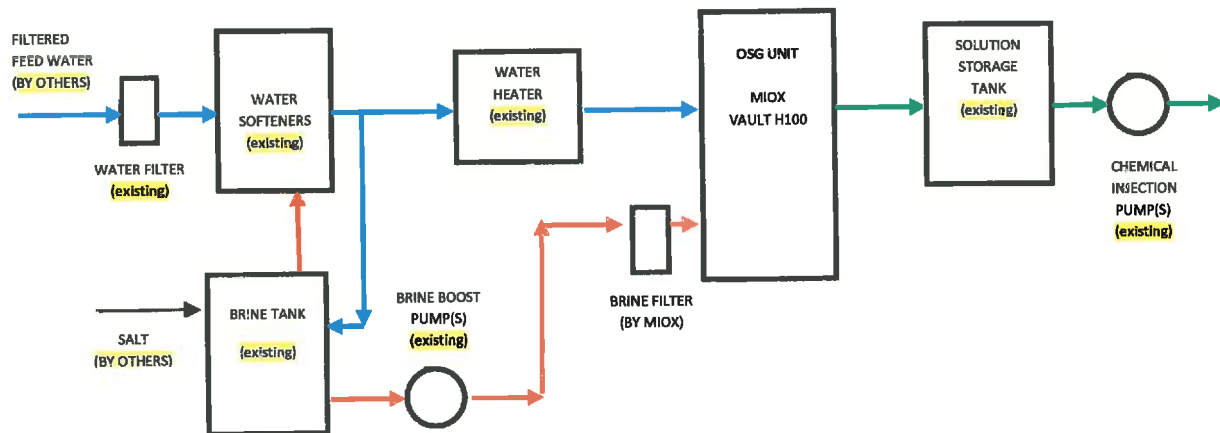


Figure 1 – Simplified process flow

General Process Description

Clean municipal water is fed into a water filter to remove any fine debris that may exist in the feed water. Filtered water is then fed into a mechanically operated, dual water softener system. The water softener reduces the hardness concentration of the feed water to one (1) grain per gallon or less to ensure soft water is continuously fed into the OSG electrolytic cell and hence reduces the potential for scaling buildup on the cell electrodes. Soft water is also used to fill the brine tank.

Feed water temperature shall be controlled within the recommended range for the OSG operation by utilizing a feed water heater or feed water chiller as required. The OSG must be operated within a certain pressure range. If required, a water boost pump or a pressure regulating valve shall be supplied and installed upstream of the OSG to ensure the operating pressure range is maintained.

Brine is generated in the brine tank. Food grade salt is added to the tank manually. Soft water is added to brine tank by utilizing the same feed water source. The saturated brine then passes through a brine cartridge filter, which removes any debris that may exist in the brine stream before being fed into the OSG electrolytic cell via the brine proportional pump.

Conditioned water from the water softeners is then fed into the OSG where the Sodium Hypochlorite solution production takes place. The OSG utilizes a built-in Allen Bradley PLC, which controls and



monitors the operation of system. Water and saturated brine are fed precisely into the electrolytic cell using a built-in flow control valve and brine proportional pumps respectively.

The produced Sodium Hypochlorite solution is then transferred to a downstream oxidant storage tank. A level monitoring device (float or sensor) shall be installed and used to maintain the oxidant level in the tank. The level device will allow the generator to start and stop automatically based on low and high liquid level in the storage tank.

The produced Sodium Hypochlorite solution is then transferred to the point of injection via a chemical injection system.

1.2. System Configuration:

For this project MIOX proposes the **VAULT™ H100** units...

Each Vault H Series On-Site Generator consists of two separate cabinets. The top cabinet is a powder coated steel control enclosure with HDPE cover housing the PLC, HMI, power supply and external customer connections. The bottom cabinet is a blow molded HDPE enclosure housing the electrolytic cell, system plumbing and valves.

Electrolytic Cell

The proprietary membrane-less electrolytic cell manufactured by MIOX produces on-demand Sodium Hypochlorite solution.

The VAULT™ Series cell is configured to provide modular cell capacity depending on the disinfectant requirement. For this project, each Sodium Hypochlorite cell module is configured to provide 25 lbs/day Free Available Chlorine (FAC) with a total of 4 modules per OSG providing 100 lbs/day FAC. As an option, this model can also be converted to a self-cleaning version.

The cell is equipped with a rupture disc, which will blow and immediately shut the system down if the pressure in the cell exceeds 25 psi to prevent any damage to the cell.





1.3. Ancillary Equipment

The following is a description of typical components required for a fully operational OSG system. The MIOX scope of supply is described in **SECTION 2** of this proposal.

Typical system representation



Figure 2 – Typical Vault™ System

Water Filtration

Feed water quality must meet the requirements listed in the feed water quality table for a proper operation of the OSG. For additional protection to the softener and OSG unit(s), water cartridge filter(s) are recommended to be installed upstream of the softener. The water filter(s) should include manual isolation valves and pressure gauges to indicate when it's time to replace the cartridge filter(s).

Water Softener

MIOX OSG units require soft water. Hard water will cause severe damage to the electrolytic cell. Water hardness must be maintained below **one (1) grain/gallon (17.1 mg/L as CaCO₃)**.





Brine Generator

A brine generator is required to provide salt storage and supply of brine to MIOX's OSG for the chemical generation process. The brine generator is also used to provide enough brine needed by the water softeners for the resin regeneration process.

Heater or Chiller

Feed water temperature higher or lower than the required temperature range listed in the feed water quality table will damage the electrolytic cell. In this case a water heater and/or water chiller must be used to maintain the required operational temperature range.

Water Pressure Boost Pump

A feed water pressure lower than the minimum pressure listed in the feed water quality table requires a water pressure boost pump to be installed upstream of the OSG unit to maintain the minimum feed water pressure required by the unit.

Oxidant Storage Tank

The oxidant tank is an integral part of an OSG and is normally sized to meet the injection demand at the peak hourly flow of generated oxidant. The oxidant tank must be vented directly to the atmosphere outside the facility to prevent the potential of leakage of hydrogen from the tank into the facility. An internal liquid barrier hydrogen vent system (LBS) will be supplied with the storage tank and shall be vented directly to atmosphere outside the facility.

Liquid Barrier Hydrogen Vent System

The Liquid Barrier Hydrogen Vent (LBS) system (see Figure 3) uses a gas trap system to prevent hydrogen gas produced during the electrolysis process from entering the oxidant storage tank. Each oxidant tank should be equipped with a drop tube that hydraulically locks the oxidant solution, similar to a "P-trap" system in household plumbing. The hydraulic lock creates a liquid barrier preventing hydrogen gas from entering the oxidant storage tank.

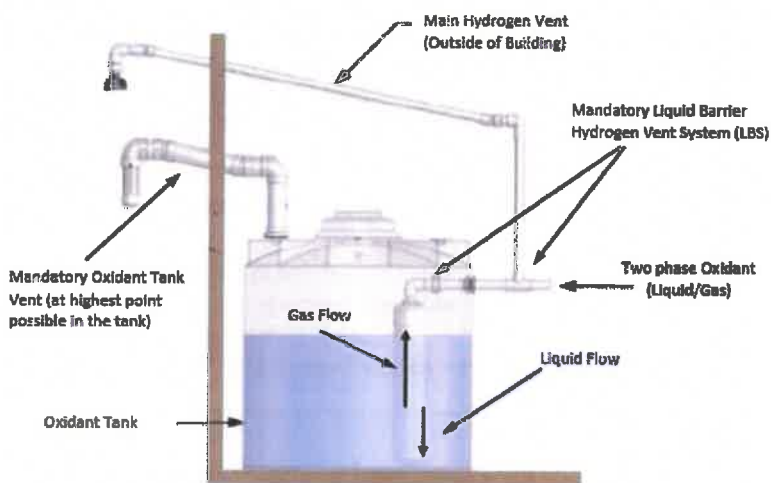


Figure 3 – Typical Liquid Barrier System



2. Scope of Supply by MIOX and Equipment Pricing

2.1. Equipment Scope of Supply

Qty	Description
On-Site Generated (OSG) Sodium Hypochlorite unit	
Two (2)	Vault™ H100 standard automatic system rated at 100 lbs/day FAC. Includes: <ul style="list-style-type: none">• One (1) 100 lbs/day standard electrolytic cell with power supplies and variable speed brine pump and filter located in a high-density polyethylene (HDPE) enclosure with power supply and controls mounted in a powder coated aluminum cabinet with HDPE panels.• Unit operating voltage: 208 - 240 VAC, 1 Phase, 52 Amp with AC to DC converters• Electrical service required for in-rush: 120-amp thermal magnetic dedicated circuit breaker<ul style="list-style-type: none">◦ An optional 3-phase Wye 380-530VAC is available upon request for a small adder.• Each MIOX Vault™ series Onsite Generator is controlled by an Allen Bradley Micro Logix 1400 PLC controller complete with an Allen Bradley Panel View Plus 600 with a 6-inch color touch screen.• The OSG is supplied pre-installed on an aluminum floor vertical mount.
Alternator Controller	
One (1)	Alternator Controller Box <ul style="list-style-type: none">• Will automatically alternate in between units• Will automatically startup standby unit when Low-Low is reached• Will also serve as a junction box for wiring existing equipment:<ul style="list-style-type: none">◦ Water Boost pump controller◦ Brine Boost pump controller◦ H2 monitor
Recommended Spare Parts	
One (1)	Spare Parts Kit Vault™: <ul style="list-style-type: none">• Set of assorted fuses• One (1) Flow sensor• Six (6) pleated 5-micron filter cartridges• One (1) Brine Dilution Pump Assembly• One (1) MIOX Acid Wash kit
Qty	Description
One (1)	Services include Two (2) days during One (1) trip for the following: <ul style="list-style-type: none">• final installation inspection• startup services• operator training by a MIOX factory field service engineer.• Included in service:<ul style="list-style-type: none">◦ Air fare, local transportation and lodging, per-diem. <p>Additional days or trips required will be charged at \$1,100 per day plus travel and accommodation expenses.</p>

Total Price for Equipment Scope of Supply & Services listed above: \$108,480

USD Optional adder for 3-phase Wye 380-530VAC power supply: \$8,250

USD



3. Warranty

MIOX Corporation Standard Terms & Conditions of Purchase, as stated in the attached document, shall apply.

4. Terms of Equipment Sale

The price(s) offered in this proposal is/are based on the following terms:

Pricing:	Price(s) offered in this proposal are firm. All prices quoted are in \$USD
Proposal Validity:	This proposal is valid for 60 days from date of submission.
Payment terms:	<p>The pricing quoted in this proposal is based on the following payment terms, subject to approval of Customer's credit.</p> <p>Initial payment: 90% of total value, Net 30 days upon delivery. Final payment: 10% of total value, upon startup.</p> <p>Equipment shipment is contingent on receipt of all due payments.</p>
Shipping Terms:	F.O.B MIOX dock unless otherwise agreed in writing. <u>Freight is included in the above price.</u>
Delivery:	<p>2 – 4 weeks for submittals after receipt of approved purchase order.</p> <p>12 – 14 weeks for shipping after approval of submittals or after authorization to proceed.</p>
Taxes:	Federal, State or local sales, use or other taxes are not included in this proposal.
Terms & Conditions:	Commercial terms and conditions shall be in accordance with MIOX's standard terms and conditions of purchase attached to this proposal. In no event shall Supply Contractor's total liability for any and all claims in connection with its supply of the Goods exceed, in the aggregate, the purchase price for the Goods received by Supply Contractor. Neither party shall be liable for any indirect, special, consequential or punitive damages of any kind, regardless of the cause of action. All implied warranties are hereby disclaimed.



5. Items Not Included in MIOX Proposal

- Unloading of MIOX equipment at customer's site.
- Installation of all MIOX supplied equipment.
- Supply and installation of interconnect piping, power and control wiring between MIOX's supplied equipment.
- Ongoing operation and maintenance of MIOX supplied equipment.
- Services do not include construction of building enclosure, concrete, civil or site work, obtaining permits, installation of new power distribution, or water service, sewer, or other utility modifications needed to accommodate the system requirements. MIOX's Service Visit (if included in this proposal) should be scheduled when all building site, equipment installation, and other preparation work have been completed and prior to our service engineer's arrival at the job site.
- Pump motor starters if required.
- Clean municipal feed water source. Please refer to the attached OSG specification sheet for feed water flow rate, pressure and temperature requirement.
- Feed water for water softener regeneration. Consult MIOX for volume of water required for regeneration per day.
- Dedicated power supply to each OSG system. Please refer to the attached specifications sheet for power supply requirements.
- Electrical transformer if site power supply is different than the power supply requirements by MIOX's supplied equipment.
- Floor drain to accommodate periodic water softener recharge wastewater.
- PVC vent vertical piping from each solution tank's dome to the outside of the facility.
- PVC vent vertical piping from each solution tank's Liquid Barrier Down Tube Hydrogen Vent Inlet to the outside of the facility.
- Consumable items including salt, electrical power, and feed water to MIOX system.
- Heated/cooled facility or building for enclosure of system. Please refer to the attached specifications sheet for ambient temperature requirements.
- Any equipment or service not specifically listed in MIOX's scope of supply section of this proposal.



6. Telephone Support

MIOX also maintains a customer service telephone line, which can be readily reached during business hours at (800) MIOX-HLP (800-646-9457). In the event, on-site service is required at the factory, MIOX maintains a staff of people trained to render such service, and they are available to travel on short notice.

7. Company Information

Please visit our website @ www.miox.com to learn more about MIOX Products and Services.

MIOX
5601 Balloon Fiesta Parkway
Albuquerque, New Mexico 87113, USA
www.matthey.com
www.miox.com

mioxsales@matthey.com
mioxservicedist@matthey.com

Office: (505) 343-0090
(888) 646-9420
Fax: (505) 343-0093

Local Representative:

George N Argiris



2445 Westfield Drive, Suite 100
Elgin, Illinois 60124-7840
P: 224.629.4060
F: 224.629.4061
C: 630.814.9150
E: gargiris@drydon.com



ON-DEMAND CHEMISTRY

JM Johnson Matthey
Inspiring science, enhancing life

ACCEPTANCE

In order to acknowledge and accept this proposal, please sign below and return the signed proposal to MIOX Corporation:

From: _____
Contact Name (First, Last)

Proposal No: _____

Revision No: _____

Company

Please refer to this number when ordering

Address

Customer PO No: _____

Address

Total Sell Price: _____

City State Zip

Phone: _____

Fax: _____

E-mail: _____

To: MIOX Corporation
5601 Balloon Fiesta Parkway
Albuquerque, NM 87113
Attention: Order Entry

Signature: _____

Date: _____

Authorizing Signature for the Purchaser

Signature: _____

Date: _____

Authorizing signature for MIOX Corporation

END

MIOX Terms & Conditions of Purchase 08/01/2012

1. **ACCEPTANCE:** The terms and conditions contained herein constitute the sole terms and conditions governing the purchase by the buyer ("Buyer") stated on the face hereof of the equipment and other items specified on the face hereof ("Equipment"). Buyer shall be deemed to have accepted and agreed to these Terms and Conditions by its receipt of the Equipment or placement of a purchase order. Any terms and conditions different from or in addition to those contained herein, including any contained in Buyer's purchase order or in any other document furnished by Buyer, shall be of no force or effect in connection with the sale of the Equipment and MIOX hereby objects to and rejects in their entirety all such terms and conditions, as MIOX's agreement to sell the Equipment is expressly made conditional upon the use of these Terms and Conditions. No variation to these terms, nor any other terms and conditions by you, shall be of any effect unless such variation or terms are expressly accepted in writing, signed on behalf of MIOX.
 2. **TRANSPORTATION:** For domestic shipments, the terms are F.O.B. MIOX dock, unless the quotation provides otherwise. For international shipments, the terms are EXW MIOX dock, unless the quotation provides otherwise. In either situation, all freight charges and other shipping costs shall be paid by Buyer. MIOX prices do not include freight charges and other shipping costs. Shipping of Equipment returned to MIOX shall be at Buyer's expense.
 3. **RISK OF LOSS:** For domestic shipments, the risk of loss or damage to Equipment in transit shall be upon Buyer, with title to Equipment transferring to Buyer at point when the Equipment is at the disposal of the Buyer. For international shipments, risk of loss and damage shall pass to the Buyer at the point when the Equipment is at the disposal of the Buyer. Title shall pass to the Buyer only when MIOX has received payment in full.
 4. **RELEASE OF OBLIGATION:** No payment, whether final or otherwise, shall operate to release Buyer from any obligations arising as a result of this order. Orders cannot be cancelled by Buyer without MIOX written consent, and then only upon terms that will compensate MIOX for lost profits and all costs and expenses (including any engineering and/or fabrications charges) applicable to the cancelled order.
 5. **INDEMNITY:** Buyer shall defend and indemnify MIOX against all damages, liabilities, claims, losses, and expenses (including, without limitation, reasonable attorney's fees) arising out of or resulting in any way from any act or omission of Buyer, its agents, employees or subcontractors.
 6. **BUYER'S INSOLVENCY:** If Buyer becomes bankrupt or insolvent, or if a petition in bankruptcy or insolvency is filed against Buyer, or if a receiver, trustee, or assignee for the benefit of creditors is appointed for Buyer, MIOX shall have the right, at its sole election, to treat such occurrence as a breach hereof.
 7. **REMEDIES:** In the event of a breach of any one or more of the provisions of this order, MIOX shall have all the rights available to it at law and equity including, but not limited to, (a) to retain any money paid up to an amount which MIOX determines is adequate to cover all damages resulting from Buyer's breach, (b) to assert any claim for damages and any expenses whatsoever, including, without limitation, reasonable attorney's fees, which may be incurred by MIOX by reason of such breach, and (c) to terminate this order immediately upon written notice to Buyer. Such rights shall be in addition to any other remedies provided herein or provided by law or in equity, such remedies to be cumulative and not alternative.
 8. **PROPRIETARY INFORMATION:** Any specifications, drawings, designs, manufacturing data or other information that may be transmitted to Buyer by MIOX in connection with this order are the property of MIOX and are disclosed in confidence upon the condition that they are not to be reproduced or copied or used in furnishing information or equipment to others, or for any purpose detrimental to the interest of MIOX. MIOX shall retain or be entitled to assignment of all intellectual property rights (including copyrights, trademark rights, patent rights, trade secret rights and mask work rights) in any items, features, adaptations, or modifications of Equipment.
 9. **WAIVER:** No waiver by MIOX of any conditions appearing herein shall be deemed to constitute a waiver of any other conditions with regard to subsequent transactions or subsequent parts of the same transaction. No waiver of a breach of any provision of this order shall constitute a waiver of any other breach or of such provisions.
 10. **FORCE MAJEURE:** In the event of a disruption of MIOX business in whole or in part by reason of governmental actions, acts of God, fires, strikes, floods, storms, earthquakes, epidemics, quarantines, wars, insurrections, riots, strikes, acts of civil or military authorities, transportation embargoes, shortages, wrecks, severe weather, labor shortages, computer viruses, other malware, or crashes, Buyer acts or omissions, deliveries of components and materials, or delays by MIOX suppliers, or other causes beyond MIOX's control, MIOX shall have the option of canceling delivered orders in whole or in part. If cancelled by MIOX, any deposits made in conjunction with such order shall be refunded in full to Buyer. Such cancellation shall not constitute a breach of these Terms and Conditions.
 11. **LICENSE:** Subject to the terms and conditions provided in this Agreement, MIOX hereby grants to Customer a nonexclusive, non-sublicensable, non-transferable license to use all patents, designs, trade secrets, copyrights, or trademarks applying to all Equipment manufactured by MIOX or its contractors either in whole or in part to the Buyer's specifications.
 12. **TERMS OF PAYMENT:** Buyer shall be responsible for payment to MIOX, in full, of the amount invoiced, by pre-payment, or C.O.D., unless credit terms are agreed to in writing and signed by MIOX prior to shipment. If MIOX has granted credit terms to in writing and signed by MIOX prior to shipment. If MIOX has granted credit terms to the Buyer, all payments must be made on or before the stipulated date unless otherwise agreed to in writing. Failure to pay on or before said date shall constitute a breach of this order,
 - 12 (continued), and MIOX may in addition to all other remedies;
 - a. Require Buyer pay interest at a rate of 18% per annum, or at the maximum legal rate if lower.
 - b. Suspend any further or other deliveries under any contact with Buyer.
- MIOX reserves the right to change terms of payment and discontinue further shipments without prejudice to any other lawful remedy until past due payments are made, or if MIOX, in its sole discretion, deems Buyer to be non-credit worthy. MIOX prices for the Equipment are exclusive of all sales, use, excise and similar taxes and duties and any such taxes and duties shall be the sole responsibility of Buyer.
13. **RETURNS:** No Equipment will be accepted for return without the prior written approval of MIOX. Buyer shall pay a restocking fee equal to twenty-five percent (25%) of the purchase price for any Equipment accepted for return.
14. **INSPECTION AND DEFICIENT PARTS:** All inspection or re-inspection performed by Buyer is at Buyer's own expense. Claims for defective material or workmanship, or for missing material, must be submitted to MIOX within fourteen days of receipt of Equipment by Buyer, and must be verified by an authorized agent of MIOX. In such cases, MIOX liability is limited to the replacement or repair of such part or parts as MIOX may decide. Shipping of parts returned as deficient shall be done at Buyer's expense.
15. **HEADINGS:** Headings are inserted for convenience only. In the event any provision of these Terms and Conditions is not enforceable, such unenforceability does not affect the remainder of this order, as the remainder of this order shall remain in full force and effect.
16. **APPLICABLE LAW:** These Terms and Conditions shall be governed by and shall be construed according to the laws of the State of New Mexico.
17. **WARRANTY:** MIOX warrants that the MIOX Products when properly installed and operated in accordance with MIOX Products' Operation Manual, will work in accordance with the Technical Specifications and any other specifications defined in the Agreement. This warranty is non-transferable. MIOX warrants the MIOX Products against any defects in design, workmanship or material in accordance with the following conditions:
Any defective MIOX Products ("the Defective Product") will be repaired or replaced by MIOX in accordance with the following warranty conditions:
The warranty period varies based on the item and product and is as follows:
- a) All On-Site Generator Enclosures will be warranted for two (2) years starting from the date of shipment from MIOX. Only for the RIO Zuni, the integrated brine tank is considered a part of the enclosure.
 - b) All Cells excluding the RIO Zuni Cells will be warranted for five (5) years starting from the date of shipment from MIOX. The RIO Zuni Cell is warranted for two (2) years starting from the date of shipment from MIOX.
 - c) Peripherals and MIOX Products Spare Parts (excluding Cells) will be warranted for one (1) year from the date of shipment from MIOX or by the supplying manufacturer's warranty, whichever is greater.
- The warranty shall be void if the MIOX Products, Peripherals or MIOX Products Spare Parts:
- d) have been modified without the express written authorization of MIOX; or
 - e) have been damaged, improperly used or subjected to an adverse operating environment, outside of their intended uses and/or environment; or
 - f) are repaired or modified by anyone other than MIOX approved personnel; or
 - g) have been used in a manner contrary to the MIOX Products Operation Manual or other written instructions provided by MIOX, including but not limited to performing below specification or damaged due to contamination caused by, but not limited to, calcium, manganese, magnesium and insolubles.
- THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND/OR ANY OTHER OBLIGATION OR LIABILITY ON THE PART OF MIOX. The sole and exclusive remedy for breach of any warranty, express or implied, and the only obligation of MIOX thereunder, shall be the repair or replacement of defective products or, at MIOX's sole option, refund of the purchase price or substitution with a new replacement product. MIOX shall in no way be responsible for any consequential damages, of any kind or nature whatsoever, resulting from the breach of any warranty, express or implied.
18. **LIMITATION OF LIABILITY.** IN NO EVENT SHALL THE LIABILITY OF MIOX HEREUNDER, WHETHER FOR BREACH OF WARRANTY OR CONTRACT, TORT (INCLUDING NEGLIGENCE), PATENT, COPYRIGHT OR OTHER INFRINGEMENT OR OTHERWISE, EXCEED THE PURCHASE PRICE OF THE EQUIPMENT OR PART OR COMPONENT THEREOF WHICH ALLEGEDLY CAUSED THE DAMAGE. IN NO EVENT SHALL MIOX HAVE ANY LIABILITY FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.
19. **NON-ASSIGNMENT.** Buyer shall not assign any of its rights or obligations hereunder.
20. **ENTIRE AGREEMENT.** These Terms and Conditions, the provisions on the face hereof and any other documents incorporated by reference on the face hereof are the sole and exclusive statement of the agreement between the parties concerning the purchase and sale of the Equipment and supersede any prior agreements, orders, quotations, demonstration, samples, proposals or understandings in connection therewith. These Terms and Conditions may only be amended, modified, waived or revoked by a written instrument executed by both parties hereto.



Johnson Matthey

Vault™ Standard HYPO Specifications

The MIOX Vault™ on-site generator is designed for high efficiency, low lifecycle cost, durability and reliability. The Vault standard hypo configuration features self-adjusting flow control and an easy-to-upgrade cell to convert between sodium hypochlorite and advanced mixed oxidant. Expandable capacity offers ultimate flexibility. With over 40% improved salt and energy efficiencies, the Vault is built for cost-effective operation. Using just salt and power to generate a dilute chlorine-based solution eliminates the storage and handling of hazardous disinfection chemicals while providing chlorine residual.

	H Vault 25	H Vault 50	H Vault 75	H Vault 100
Rated FAC Capacity	25 lbs/day 11.3 kg/day	50 lbs/day 22.7 kg/day	75 lbs/day 34 kg/day	100 lbs/day 45.4 kg/day
Salt Conversion (SCE)*	3.0 lb salt/lb FAC 3.0 kg salt/kg FAC			
Energy Conversion (ECE)*	2.0 kW-hr/lb FAC 4.4 kW-hr/kg FAC			
FAC Concentration*	8,000 mg/L (+/- 1,000)			
Flow Rate^	21 gph 79.5 lph	42 gph 159 lph	63 gph 238.5 lph	84 gph 318 lph
Nominal Energy to Unit	13 A 3 KVA	26 A 6 KVA	39 A 9 KVA	52 A 12 KVA
Electrical Service Requirement (OSG Only)	200-240 VAC, 1 ph, 30A, 50/60 hertz	200-240 VAC, 1 ph, 60A, 50/60 hertz	200-240 VAC, 1 ph, 90A, 50/60 hertz	200-240 VAC, 1 ph, 120A, 50/60 hertz
Air Temp. Required	45° to 110° F 7° to 43° C			
Recommended Feed Water Temperature*	55° to 80° F 12° to 27° C			
Allowable Feed Water Temperature*	40° to 95° F 5° to 35° C			
Feed Water Pressure	25 to 100 psi 172 to 689 kPa			
Maximum Silica Limit	20 mg/L			
Energy Add for Internal Vent	0.7 kW	1.4 kW	2.1 kW	2.8 kW
Approximate Dimensions (WxDxH)	36 x 17.4 x 65.5 inches 91.44 x 44.2 x 166.37 cm			
Self Cleaning	NO			

*Performance may vary depending on salt quality, water quality, and water temperature.

^ Feed water flow rate is subject to +/- 15% variation

Note: This electronic document is controlled. Once this document is printed it becomes uncontrolled and obsolete. Refer only to electronic document for the latest information.





Vault™ Self Cleaning HYPO Specifications

The MIOX Vault™ on-site generator is designed for high efficiency, low lifecycle cost, durability and reliability. The self-cleaning Vault with self-adjusting flow control is virtually maintenance free. With over 40% improved salt and energy efficiencies and a new self-cleaning system, the Vault is built for cost-effective, problem-free operation. The Vault features an easy-to-upgrade cell to convert between sodium hypochlorite and advanced mixed oxidant with expandable capacity for the ultimate flexibility. Using just salt and power to generate a dilute chlorine-based solution eliminates the storage and handling of hazardous disinfection chemicals while providing chlorine residual.

	H Vault 25	H Vault 50	H Vault 75	H Vault 100
Rated FAC Capacity	25 lbs/day 11.3 kg/day	50 lbs/day 22.7 kg/day	75 lbs/day 34 kg/day	100 lbs/day 45.4 kg/day
Salt Conversion (SCE)*	3.0 lb salt/lb FAC 3.0 kg salt/kg FAC			
Energy Conversion (ECE)*	2.0 kW-hr/lb FAC 4.4 kW-hr/kg FAC			
FAC Concentration*	6,500 mg/L (+/- 1,000)			
Flow Rate^	22.5 gph 85.2 lph	45 gph 170.4 lph	67.5 gph 255.6 lph	90 gph 340.8 lph
Nominal Energy to Unit @ 480V	3.5 A 3 KVA	7 A 6 KVA	10.5 A 9 KVA	14 A 12 KVA
Electrical Service Requirement (OSG only)+	3-Ph(~) Wye 380-530 VAC 50/60 Hz, 15A	3-Ph(~) Wye 380-530 VAC 50/60 Hz, 25A	3-Ph(~) Wye 380-530 VAC 50/60 Hz, 35A	
Air Temp. Required	45° to 110° F 7° to 43° C			
Recommended Feed Water Temperature*	55° to 80° F 12° to 27° C			
Allowable Feed Water Temperature*	40° to 95° F 5° to 35° C			
Feed Water Pressure	25 to 100 psi 172 to 689 kPa			
Water Hardness	0 - 17 mg/L (1 grain/gallon)			
Maximum Silica Limit	20 mg/L			
Energy Add for Internal Vent	0.7 kW	1.4 kW	2.1 kW	2.8 kW
Approximate Dimensions (WxDxH)	36 x 17.4 x 65.5 inches 91.44 x 44.2 x 166.37 cm			
Self Cleaning	YES			

*Performance may vary depending on salt quality, water quality, and water temperature.

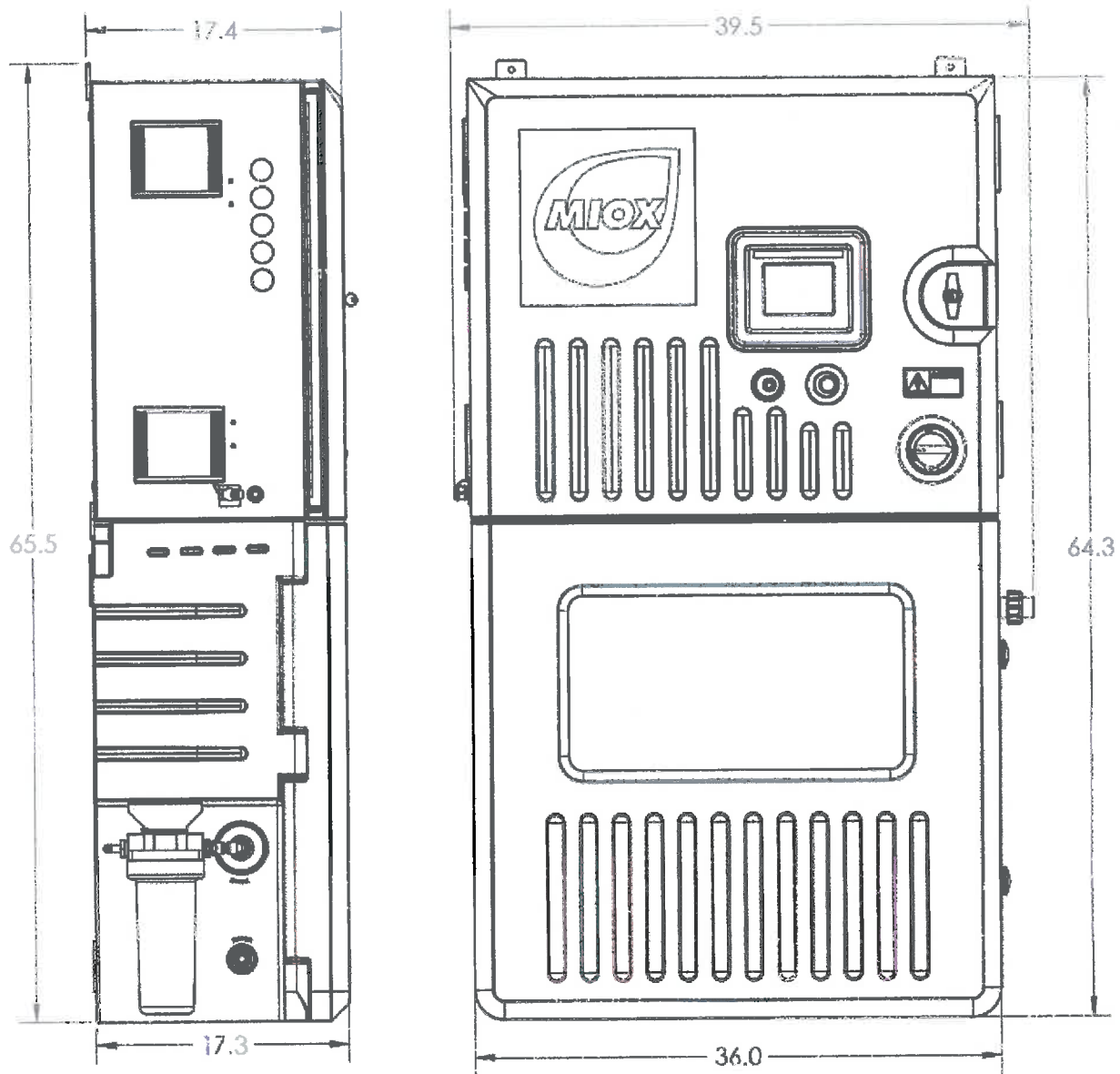
^Feed water flow rate is subject to +/- 15% variation.

+For 3-Phase Delta applications, contact MIOX.

Note: This electronic document is controlled. Once this document is printed it becomes uncontrolled and obsolete. Refer only to electronic document for the latest information.



Vault Drawing



REFERENCE GENERAL ARRANGEMENT DRAWING 112-00001
FOR INSTALLATION REQUIREMENTS

Note: This electronic document is controlled. Once this document is printed it becomes uncontrolled and obsolete. Refer only to electronic document for the latest information.



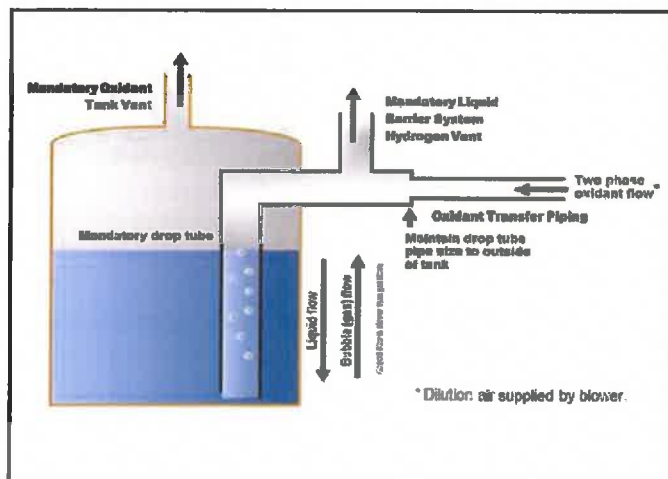


MIOX® Hydrogen Safety – Simple and Effective.

All electrolytic cells that utilize a water-based electrolyte solution generate hydrogen gas within the cell. MIOX manages the risk associated with hydrogen gas production by engineering safety barriers into all phases of equipment design. In addition, MIOX believes that these systems should be safe, simple and effective. Ideally, a hydrogen gas mitigation system should be seamlessly integrated into the overall design of the plant, and should require little to no user interaction. With these principles in mind, our multiple safety barriers have been proven to significantly reduce hydrogen risk and ensure safety, reliability and cost-effectiveness.

Our standard systems use a non-mechanical Hydrogen Venting System that doesn't require maintenance. The non-mechanical system requires no fans and eliminates the typical cross-connection into the room. Electrolytic cells have been engineered to minimize gas volume, reducing potential gas build-up. RIO™ enclosure is designed for maximum safety. Large systems may use standpipe/dilution air hydrogen mitigation system if required.

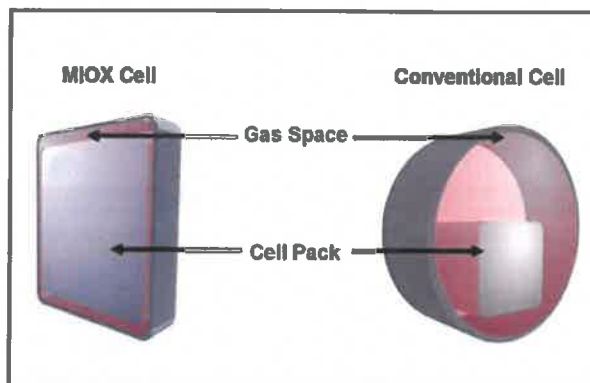
Hydrogen Venting System Prevents Hydrogen Gas Accumulation



MIOX's Liquid Barrier Hydrogen Vent (LBS) system uses a gas trap system to prevent hydrogen gas produced during the electrolysis process from entering the oxidant storage tank. Each oxidant tank is equipped with a drop tube in the oxidant tank that hydraulically locks the oxidant solution similar to a "P-trap" system in household plumbing. The hydraulic lock creates a liquid barrier, preventing hydrogen gas from entering and accumulating in the oxidant storage tank. The gas is then vented to the outside of the building where it is safely diluted by ambient air. There are no fans to maintain, check valves to service or a potential to back-draft hydrogen gas into the room should a blower fail or check valve leak. It is an elegant solution for hydrogen gas venting with an excellent safety track record.

Cell Design Minimizes Gas Volume

MIOX electrolytic cells are designed for minimum cell gas volume. Since excess space in the cell provides space for hydrogen gas to accumulate, minimizing available gas volume minimizes the risk of creating an explosive condition. All MIOX cells are designed for low rupture pressure. Although cells are typically operated at 15 psi or less, each cell is leak tested to 25 psi. To ensure a safe and low pressure system, a rupture disk is located on the cell inlet. When cell pressure exceeds 28 psi, the rupture disk will fail and the system will safely shutdown. In the unlikely event of an overpressure condition, this low operating pressure greatly decreases the severity of any problems that might arise.



The SAFEST WATER In The World

5601 Balloon Fiesta Parkway, Albuquerque, New Mexico 87113 | 1690 Summeytown Pike, Suite 150, Lansdale, PA 19446
Ph: 505-343-0090 888-646-9420 Fax: 505-343-0093 E: info@miox.com Web: www.miox.com

Dilution Air Ventilation System



The MIOX RIO™ system is designed with a fully integrated duplex (duty-standby configuration) cooling blower that doubles as a dilution air blower. The air that passes through the unit to cool the power supply can also be used to purge tanks by connecting to the exhaust stack. In addition, the fan runs when the system runs and is interlocked with the controller so that in the event the fan doesn't start, the cell won't operate. This design eliminates complex control schemes to control external blowers and is fully interlocked to prevent operation with no fan. The internal system is capable of purging most tank configurations. The RIO also supports the operation of an external dilution air controller for additional safety.

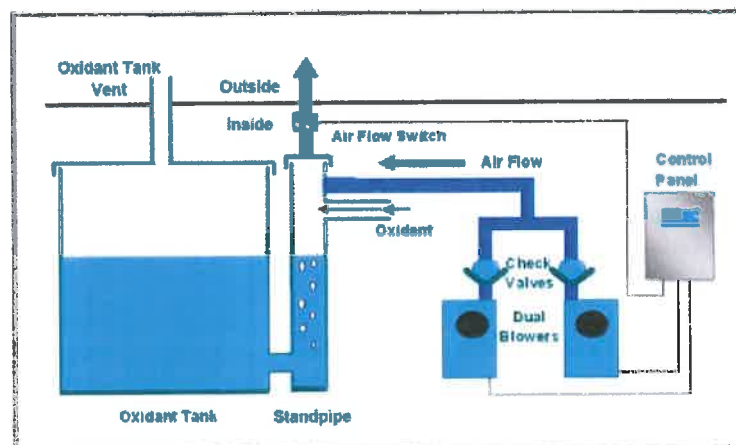
Enclosure Designed for Maximum Safety

The truth is, a hydrogen-related accident is extremely unlikely. But when it comes to operator protection, MIOX has taken no chances, designing a system with multiple protective layers that have been rigorously tested to verify the integrity of the safety design. The cell is enclosed within the housing rather than out in the open. The aluminum frame structure and roto-molded, double-walled linear polyethylene panels provide a robust housing with flexible impact resistance. From the types of fasteners and screws to vent holes at key locations, the MIOX system has been built for safety.



Standpipe/Dilution Air Hydrogen Mitigation System

For larger installations, MIOX recommends a standpipe hydrogen mitigation system due to the relatively large volumes of hydrogen gas that can be produced. In this configuration, a small external standpipe adjacent to the oxidant tank is utilized similar to the drop tube in a liquid barrier system. Hydrogen gas is separated from oxidant in the standpipe, and then is diluted below its lower explosive limit with a dilution air blower and discharged outside the building.



The SAFEST WATER In The World

5601 Balloon Fiesta Parkway, Albuquerque, New Mexico 87113 | 1690 Sumneytown Pike, Suite 150, Lansdale, PA 19446
Ph: 505-343-0090 888-646-9420 Fax: 505-343-0093 E: info@miox.com Web: www.miox.com



*The **SAFEST WATER** In The World*

MIOX SALT GUIDELINES

Revised September 14, 2011

MIOX P/N: 106-00008-B

MIOX Corporation 5601 Balloon Fiesta Parkway, Albuquerque, NM 87113
505-343-0090 888-646-9420 Fax: 505-343-0093 info@miox.com www.miox.com



The SAFEST WATER In The World

SALT GUIDELINES FOR MIOX GENERATORS

General Information

MIOX Corporation (MIOX) places importance on the quality of salt used in operating on-site generation equipment. High quality salt minimizes expense and customer equipment maintenance issues while maximizing the quality of the water treated using MIOX equipment. MIOX recommends food grade salt to help optimize MIOX system performance. Because contaminants can vary widely, even within the same mine, it is vital to request the most recent site specific contaminant analysis. The contaminant analysis should document the date that quality control was performed and the physical location where the salt was mined and processed. MIOX recommends that our customers regularly request salt product data sheets from the manufacturer to ensure consistent quality control. A reputable supplier will include the date of the quality analysis on the specification sheet in addition to the salt mine location. Please note, higher quality salt alone will not ensure reduced maintenance. Water used by the MIOX system must be softened adequately as well.

Warranty

MIOX continually strives to review and address all warranty claims in an equitable manner. It is important for our customers to understand that the use of poor quality salt may impact warranty claims. MIOX does not accept liability for any salt selected by the customer for use in MIOX equipment. MIOX reserves the right to deny any claims that could be considered under warranty if the equipment or electrolytic cell is performing below specification or is damaged due to contamination caused by, but not limited to, calcium, magnesium and insoluble material in a salt selected by the customer. NOTE: self-cleaning MIOX systems require the use of salt with a purity of 99.5% NaCl or greater (typically food grade) as described in the "Salt Purity" section below or the warranty is void.

Salt Purity

For all **self-cleaning systems (the self-cleaning VAULT™)**, only salt with a purity greater than 99.5% may be used (typically food grade) or the warranty is void. For all **non-self-cleaning systems (all other MIOX OSGs)**, MIOX recommends salt with a purity level of 99.5% NaCl or greater. Below is a table depicting what MIOX recommends for **non-self-cleaning systems** and what MIOX requires to keep the warranty intact for **self-cleaning systems**.

MIOX P/N: 106-00008-B



*The **SAFEST WATER** In The World*

Component	Percent Minimum
NaCl (dry)	99.5
Impurity	Percent Maximum
Calcium (in all forms)	0.01
Magnesium (in all forms)	0.01
Manganese	0.00002
Iron (as Fe)	0.0005
Insolubles	0.005
Additives	0.0001

For several reasons, salt quality is highly variable and MIOX cannot control the quality processes at salt manufacturing sites. Typically, salts with fewer contaminants are more expensive because of additional purification steps during processing. Salt manufacturers usually provide salt product data sheets that list contaminants of concern in each type of salt they sell. Customers assume that the delivered salt will meet the specifications provided by the manufacturers. However, not all contaminants of concern for a specific application will be listed. For example, bromide in salt used for electrolysis can elevate the concentration of bromate in the treated water. Bromate is a water quality concern in drinking water applications, but not necessarily industrial applications.

There are three primary contaminants commonly listed in a salt product data sheet that impact the electrolytic cell; calcium (Ca), magnesium (Mg) and insoluble material. High calcium and magnesium salt concentrations cause accumulation of calcium/magnesium carbonate and magnesium hydroxide in the electrolytic cell. Fouling by these deposits in the cell is the single largest cause of maintenance issues. Insoluble material or solids present in the salt that do not dissolve in water can also deposit in the cell along with carbonates. This co-deposition tends to reduce the effectiveness of acid to remove the carbonates. As a result, longer acid wash times and sometimes physical scrubbing of the cell plates is required to remove the deposit. Other contaminants, such as manganese (Mn) and iron (Fe), are known to affect cell performance by producing an oxide layer that increases the degradation rate of the plates. MIOX recommends that the manganese and iron concentrations in salt not exceed 20 parts per billion in the electrolyte solution entering the cell. Manganese and iron are not included in MIOX's salt specification maintenance worksheet because they are not often reported on salt product data sheets. However, low concentrations of Mg and Ca are associated with low concentrations of Mn and Fe.

MIOX's Salt Specification Maintenance Worksheet versus Salt Manufacturer's Product Data Sheets

Although MIOX makes recommendations on the ideal salt for use in the on-site generation process, it is the customer's responsibility to obtain a salt quality analysis (salt specification or product data sheet) from the supplier and determine its suitability for their situation, region and application.

MIOX P/N: 106-00008-B



The SAFEST WATER In The World

The salt manufacturer's product data sheet should contain information regarding the amount of calcium, magnesium and insoluble material in the salt at a minimum. MIOX and its customers use this standard information to estimate the amount of maintenance that is associated with these contaminants. This salt specification maintenance table is shown below.

	Lower Limit	Upper Limit	Maintenance
Calcium (Ca) (%)	0	0.020%	Acid wash for 20 min at 3000 hrs / quarterly
	0.020%	0.05%	Acid wash for 20 min at 750 hrs / monthly
	0.050%	0.08%	Acid wash twice for 20 min each at 24 hrs / daily
	0.080%	---	Calcium too high
Magnesium (Mg) (%)	0	0.020%	Acid wash for 20 min at 3000 hrs / quarterly
	0.020%	0.05%	Acid wash for 20 min at 750 hrs / monthly
	0.05%	0.08%	Acid wash twice for 20 min each at 24 hrs / daily
	0.08%	---	Magnesium too high
Insolubles (%)	0	0.01%	Change brine filter at 750 hrs / monthly
	0.010%	0.05%	Change brine filter at 325 hrs / biweekly
	0.050%	0.1%	Change brine filter at 24 hrs / daily
	0.10%	---	Insolubles too high

Please note that the manufacturer's product data sheets do not always give these contaminant concentrations in a standard form and the listing may refer to a brand of salt sourced from different salt mines. Different salt mines have different quality parameters. Be sure to request the salt product data sheet that is specific to the salt you will use in the MIOX system, including the mine location. For drinking water applications, the amount of bromide that may be present in certain salts should be evaluated because bromide can be converted to bromate in the cell.

Additives

Most salts have four basic types of additives:

- Hardening agent (Sodium Hexametaphosphate or SHMP)
- Cleanser (Citric Acid based)
- Free flowing/anti-caking agent (Yellow Prussiate of Soda or YPS)
- Detergents/surfactants

MIOX does not recommend the use of salt with additives. However, some customers have successfully used salts with these additives. Note that detergents/surfactants in the salt may cause foaming in the oxidant tank and reduce the effectiveness of the hydrogen venting system due to foam. It may be necessary to increase the vent pipe size. Organic additives such as citric acid can also be a source for additional trihalomethanes and haloacetic acids.

MIOX P/N: 106-00008-B

MIOX Corporation 5601 Balloon Fiesta Parkway, Albuquerque, NM 87113
505-343-0090 888-646-9420 Fax: 505-343-0093 info@miox.com www.miox.com



*The **SAFEST WATER** In The World*

Physical Salt Size

Salt that is coarse or extra coarse is preferred. Granular or pelletized salt can be used equally well but requires some extra attention. Pellets that are larger than about ½ inch in size dissolve slowly and can contribute to poor brine concentration in the brine tank, particularly when the salt level is low in the tank. For this reason, it is important to keep the brine generator filled at all times. Also, pelletized salt is too heavy to be pneumatically blown into large bulk brine generators.

Brine Filtration

Higher purity salt is often table quality, or food grade salt, in granular form. While this salt will work well, it requires an adaptation for both types of brine generators sold by MIOX, including the ton-sized bulk brine generators and the smaller brine generators with up to 1,000 gallons capacity. The large bulk brine generators must be filled with a two-layer washed quartz rock bed to avoid clogging of the brine intake port. The bottom layer should be 7 inches of quartz rock deep, using rock sizes between ¼ and ½ inch. The top layer should be 5 inches of quartz rock deep, using rock sizes between 1/8 and ¼ inch in size.

For smaller brine generators that utilize granular (fine grain) salt, a special in-tank roughing filter assembly must be used. Contact MIOX for details on this filter assembly. External to the brine generator and prior to the MIOX on-site generator cabinet, a 5-micron filter is required. This usually takes the form of a 10-inch standard filter housing with a 5-micron pleated filter cartridge element. A dual filter housing arrangement is also available to facilitate filter change-out while the systems are operational.

NSF Standard 60 Salt

Several state regulatory agencies are now requiring that the source material feeding on-site generators (i.e., salt) must be NSF-60 listed to ensure that no hazardous materials ultimately enter the drinking water supply. NSF-60 ensures that chemicals in contact with drinking water are safe and non-toxic to the drinking water supply. For a list of salt suppliers that offer NSF-60 listed salt, refer to the NSF web site at www.nsf.org. Product and service listings may be found at http://www.nsf.org/business/search_listings/.

MIOX P/N: 106-00008-B



Water Quality Guidelines

Knowing what to look for when sizing a system will help remove hidden surprises after installation. Most of the items on the following list will be below the limits but should be checked nonetheless. Concentrations or measurements in brine feed water and/or treated water that are less than the stated limits are not anticipated to have the stated effect. These factors can affect the oxidant demand of each individual water system, the oxidant production of the MIOX system, or the life of the cell itself. It is important to use "worst case" measures since water quality can vary from season to season.

PARAMETER	MEASURE	LIMIT	WHAT IS IMPACTED		
			Oxidant Demand	Chlorine Production	Cell Life
Total Hardness **	grains/gal (or mg/L)	<3 grain (<51 mg/L)		•	•
Iron (Fe) **†	mg/L	<1 mg/L **	•		•
Manganese (Mn)	µg/L	<50 µg/L **	•	•	•
Fluoride (F)	mg/L	<1 mg/L			•
Silica (SiO ₂)	mg/L	<80 mg/L		•	•
Bromide	mg/L	<50 mg/L			•
Cyanide	mg/L	<1 mg/L			•
Lead (Pb)	mg/L	<2 mg/L			•
Dissolved Sulfides (as H ₂ S)	mg/L	***	•		
Ammonia Nitrogen (NH ₃ -N)	mg/L	***	•		
Organic Nitrogen (Org-N)	mg/L	***	•		
Total Organic Carbon (TOC)	mg/L	***	•		
pH	-	5-9		•	•
Water Temperature Range ^	°F (or °C)	50-80 °F (10-27°C)		•	•

**Caution: water softeners will remove these components up to a limit. See references to maximum ferrous iron and manganese in water softener documentation. Total hardness affects cell life only in that higher hardness requires acid washing to remove carbonate deposits from the cell. Use of water softened to < 1 grain hardness should not require acid washing of the cell.

*** Oxidant demand is affected by any level of H₂S, ammonia or organic nitrogen, or TOC.

† Iron may deposit Fe(OH)₃ on the anode, causing an electrical "blind", which would increase the brine proportion pump signal voltage (brine proportion pump speed) needed for the system to reach the operating window. Chlorine production would remain the same, but salt conversion efficiency will decrease. The same effect is true of silica on the cathode.

^ The system will operate with water temperatures outside this range; however, there will be a performance change. Follow the system specifications for absolute limits.

