



Rantoul Village Board of Trustees
Regular Study Session
March 1, 2022
6:00 PM

Order of Business

1. Call to Order

2. Roll Call

3. Approval of Agenda

4. Public Participation

Citizens wishing to address the Village Board with respect to any item of business listed upon the agenda, or any matter not appearing on the agenda, are asked to complete a public participation form, and submit it to the Village Clerk prior to the meeting. Comments will be limited to three minutes for each speaker.

5. Items from the Mayor

6. Items from Police Department

- (A) Illinois Law Enforcement Accreditation Program (ILEAP) Presentation from Chief Frank Kaminski

7. Items from Trustees

8. Items from the Clerk

All minutes are drafts until approved at the regular board meeting. The Village is required to post the approved minutes on their web site within 30 days of approval.

- (A) Minutes of the February 1, 2022 Board Study Session
- (B) Minutes of the February 8, 2022 Board Meeting

9. Items from the Administrator

- (A) Approve Ordinance No. 2701, AN ORDINANCE AUTHORIZING AND APPROVING LAND LEASE AGREEMENT WITH BOW RENEWABLES LLC (3200 N 1800 E Road)

10. Items from Human Resources

- (A) February 2022 Village Applicant Demographics Report

11. Items from Comptroller

12. Items from Fire Department

13. Items from Building Safety

- (A) Approve Ordinance No. 2695, AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE V OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL MECHANICAL CODE
- (B) Approve Ordinance No. 2696, AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE VIII OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL FIRE CODE



Rantoul Village Board of Trustees
Regular Study Session
March 1, 2022
6:00 PM

Order of Business

- (C) Approve Ordinance No. 2697, AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE IX OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL FUEL GAS CODE
- (D) Approve Ordinance No. 2698, AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE X OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- (E) Approve Ordinance No. 2699, AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE XI OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE

14. Items from Community Development

- (A) Approve Ordinance No. 2700, AN ORDINANCE AMENDING CHAPTER 42 "VEGETATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH THE URBAN FORESTRY MANAGEMENT PLAN

15. Items from Recreation

- (A) Authorize and Approve the Contract with Deem Landscaping, Inc for landscape installation and maintenance in the amount of \$28,385.00.

16. Items from Public Works

- (A) Authorize and Approve the Design, Bid, Contract, and Construction Engineering Agreement with GHR Engineering and Associates, Inc for the HVAC replacement at the Water Treatment Plant in the amount of \$47,784.00.
- (B) Authorize and Approve the Contract with Cross Construction, Inc. for roadway improvements, resurfacing Congress Avenue and Sheldon Street, in the amount of \$1,244,883.87.
- (C) Authorize and Approve the Agreement with POW-R-GUARD for the semi-annual preventative maintenance of the Caterpillar emergency standby generators, in the amount of \$52,208.00 per year.
- (D) Authorize and Approve the Agreement with G. A. Rich & Sons Inc. for the recommended replacement of the underdrains of filter two and filter four at the West Water Treatment Plant (WTP) in the amount of \$246,850.00



**Rantoul Village Board of Trustees
Regular Study Session
March 1, 2022
6:00 PM**

Order of Business

- 17. Items from Counsel**
- 18. Items for Closed Session**
- 19. Adjournment**

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Public Participation	DEPARTMENT:
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS:	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS:	
RECOMMENDED ACTION:	
DEPARTMENT HEAD APPROVAL	VILLAGE ADMINISTRATOR

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Illinois Law Enforcement Accreditation Program (ILEAP) Presentation from Chief Frank Kaminski	DEPARTMENT: Administration
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS:	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS:	
RECOMMENDED ACTION:	
DEPARTMENT HEAD APPROVAL Chief Tony Brown	VILLAGE ADMINISTRATOR Scott Eisenhauer

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Minutes of the February 1, 2022 Board Study Session	DEPARTMENT: Administration
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. February 1 Minutes - draft	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS:	
RECOMMENDED ACTION:	
DEPARTMENT HEAD APPROVAL Janet Gray	VILLAGE ADMINISTRATOR Scott Eisenhauer

**RANTOUL VILLAGE BOARD OF TRUSTEES
REGULAR STUDY SESSION
February 1, 2022**

LOUIS B. SCHELLING MEMORIAL BOARD ROOM
RANTOUL MUNICIPAL BUILDING, 333 S. TANNER, RANTOUL, IL

A Regular Study Session of the Board of Trustees of the Village of Rantoul was held at virtually at 6:00 P.M. Mayor Smith called the proceeding to order at 6:00 P.M.

Roll Call

The Clerk called the roll, finding the following members present:

Mayor Smith, and Trustees Crider, Wilkerson, Hall, Robertson, Weathersby and Johnson – 7

The following representatives of Village departments were also present:

Scott Eisenhauer, Administrator; Tony Brown, Police Chief; Jake McCoy, Assistant Public Works Director; Scott Morgan, Building Safety; Luke Humphrey, Recreation Superintendent; Ryan Reid, Sports Complex Director; Debbie Sage, Human Resources; David Wesner, Attorney and Janet Gray, Village Clerk

Approval of Agenda

Trustee Hall moved to approve the agenda. Trustee Weathersby seconded the motion. On a roll call vote:

AYE: Hall, Robertson, Weathersby, Johnson, Crider and Wilkerson – 6.

NAYS: None – 0.

The motion carried 6-0.

Public Participation

Loise Haines called to ask about the Trustee Retreat at the iHotel. She asked why the Village wasn't holding the event in Rantoul.

Items from Mayor

The Village will be enacting the snow routes tonight at 11:00 pm. Vehicles parked on the snow routes will be towed.

The Mayor informed the Trustees of a Training Retreat with the Illinois Municipal League Director at the iHotel Conference Center on April 23, 2022 from 9:00 am to 4:00 pm.

Items from Trustees

Trustee Robertson asked about the area on Veteran's Parkway/Perimeter Road where the fence was taken down. He would like to see a round about there since the Village owns that property. He asked if the cameras in the area were being used to ticket vehicles that drive through the open area. Trustee Robertson also asked about the Crime Free Housing policy.

Chief Brown said the license plate readers were not being used to enforce traffic violations. There have been no changes in the Crime Free Housing policy and any evictions occur only when proper evidence is presented.

Items from Clerk

- A. Minutes of January 4, 2022 Study Session
- B. Minutes of January 11, 2022 Board Meeting
- C. Deputy Clerk Tana Ward received the 2022 Jim Tinnin Online Learning Scholarship for District VII from the International Institute of Clerks. This is a \$100.00 scholarship to be used for on-line learning through the IIMC.

These items will go to the Board for approval.

Items from Administration

- A. The current lease with McCleod, USA Telecommunications for space at 200 W. Grove expires on Feb. 28, 2022. The amendment extends the lease for five years to Feb. 28, 2027 with three renewals of five years each. The monthly rent is \$273.49.
- B. The Administrator is requesting the authority to refinance the Tax Increment Refunding Revenue Bonds. The interest rate has decreased and the Village could receive a savings of 4.4% to 8.2% over the remaining time of the bond which could net as much as \$1 million savings. John Vezzetti with Bernardi Securities explained the attachment which outlined the possible savings by refinancing the bonds. The Bonds were originally issued in 2013.
- C. The initial discussion of American Rescue Plan Act (ARPA) Funding for the was started with the Trustees to bring forward ideas they have for the use of the money. The Administrator will make a list of all the ideas, discuss them with staff and review the restrictions of the ARPA program to see if they will fit the requirements.

Clerk's Note:

At 6:48 pm Chris Powers called in and was informed by the Clerk that Public Participation had been held at the beginning of the meeting.

- D. The Administrator has been meeting with the departments to review their 2022-2023 budget requests. The Administrator will have a discussion with the Trustees about items they would like to see in the budget and items that might not want.

The lease and bond refinancing items will go to the Board for approval.

Items from Comptroller

No Items to report.

Items from Human Resources

- A. Debbie Sage presented the Village Applicant Demographics Report.

Items from Police Department

- A. The Department would like to purchase nine squad car cameras from Axon Enterprise, Inc. These cameras would integrate with the current body cameras to provide more transparency of police contacts. The agreement would be for five years with a cost of \$20,765.72 annually. This will be a budgeted item.

This item will go to the Board for approval.

Items from Fire Department

No Items to Report.

Items from Building Safety

- A. The department is recommending the adoption of the 2018 International Code for Buildings and Building regulations. The Village currently uses the 2016 Code. There are three Ordinances to amended various sections of the Village Code. The 2018 Code books have been purchased out of this year's budget.

These items will go to the Board for approval.

Items from Community Development

No items to report.

Items from the Recreation

- A. Ryan Reid reviewed the year-end report for the Sports Complex.

Items from Public Works

- A. The Department submits a request annually to the Illinois Department of Transportation for State highway closing for community celebrations and parades. The Village is requesting permission to use or cross state highways for the Fourth of July Parade, the High School Homecoming Parade and the Chamber of Commerce Christmas Parade.
- B. The United States Environmental Protection Agency has mandated the development of a Nutrient Assessment and Reduction Plan to identify phosphorous reductions and other measures to ensure the dissolved oxygen and aquatic life criteria are met throughout the watershed. The Department would like to enter into an Intergovernmental Agreement with Urbana and Champaign Sanitary Districts to hire an Engineer to perform the studies.
- C. The Village and the Sanitary Districts have selected Donohue & Associates to do the above study at a cost of \$27,010.00. This is a budgeted item.

- D. The Department is requesting the approval of a Change Order in the amount of \$19,864.00 to a contract with Burns & McDonnell to release for Chanute Air Force Base properties through the Illinois Division of Aeronautics. This process was delayed over 16 months and during that time new guidance was released by the FAA that required more work to complete the application.

These items will go to the Board for approval

Items from Counsel

Working with Building Safety on the adoption of the updated code. The three before the Board this month are the most used codes. They will be effective in June.

Items for Closed Session

No Closed Session was held.

Meeting Adjourned

The Mayor adjourned the meeting at. 8:27 pm.

Respectfully submitted,

Janet E. Gray, MMC
Village Clerk

Approved

Charles Smith
Village President

ATTEST:

Janet E. Gray, MMC
Village Clerk

I, Janet E. Gray, Village Clerk of the Village of Rantoul, Illinois, do hereby certify that the foregoing minutes are a true and correct copy of the Study Session of the Board of Trustees held February 1, 2022 as the same appears on the records of the Village now in my custody and keeping.

Janet E. Gray, MMC
Village Clerk

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Minutes of the February 8, 2022 Board Meeting	DEPARTMENT: Administration
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. Febuary 8 Minutes - draft	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS:	
RECOMMENDED ACTION:	
DEPARTMENT HEAD APPROVAL Janet Gray	VILLAGE ADMINISTRATOR Scott Eisenhauer

**RANTOUL VILLAGE BOARD OF TRUSTEES
REGULAR BOARD MEETING
FEBRUARY 8, 2022**

LOUIS B. SCHELLING MEMORIAL BOARD ROOM
RANTOUL MUNICIPAL BUILDING, 333 S. TANNER, RANTOUL, IL

A Regular Meeting of the Board of Trustees of the Village of Rantoul was held virtually at 6:00 P.M., President Charles Smith presiding. President Smith called the meeting to order.

Invocation & Pledge of Allegiance

Trustee Wilkerson opened the meeting with prayer. Following the invocation, Trustee Hall led the audience in recitation of the Pledge of Allegiance.

Roll Call

The Clerk called the roll, finding the following members present:

Mayor Smith, and Trustees Crider, Wilkerson, Robertson, Weathersby and Johnson – 6

Trustee Hall was having computer troubles and will try to log back in.

The following representatives of Village departments were also present:

Scott Eisenhauer, Administrator; Jake McCoy, Assistant Public Works Director; David Wesner, Attorney and Janet Gray, Village Clerk

Approval of Agenda

Trustee Wilkerson moved to approve the agenda for the meeting, as presented. Trustee Crider seconded the motion. One a Roll Call vote:

YEAS: Wilkerson, Robertson, Weathersby, Johnson, and Crider – 5.

NAYS: None – 0.

ABSENT: Hall – 1.

The motion carried 5-0.

Trustee Hall rejoined the meeting 6:05 pm.

Public Participation

No Public Participation

A. Consent Agenda

Approval of Consent Agenda Items by Omnibus Vote

- A. Resolution No. 02-22-1354, A RESOLUTION DETERMINING WHETHER THE NEED FOR CONFIDENTIALITY STILL EXISTS OR IS NO LONGER REQUIRED AS TO ALL OR PART OF THE MINUTES OF ALL CONFIDENTIAL CLOSED MINUTES
- B. Minutes of Regular Study Session January 4, 2022
- C. Minutes of Regular Board Meeting January 11, 2022
- D. Approval of bills and monthly financial report

Trustee Johnson moved to approve the Consent Agenda items by omnibus vote. Trustee Hall seconded the motion. On a Roll Call vote:

YEAS: Johnson, Crider, Wilkerson, Hall, Robertson and Weathersby – 6.

NAYS: None – 0.

The motion carried 6-0.

B. Consideration of Bids, Contracts & Other Items of Expenditure

Trustee Robertson moved to authorize and approve a five-year contract with Axon Enterprises, Inc. for the purchase and installation of nine (9) Fleet in-squad cameras in the amount of \$20,765.72 annually. Trustee Weathersby seconded the motion. On a Roll Call vote:

YEAS: Robertson, Weathersby, Johnson, Crider, Wilkerson and Hall - 6.

NAYS: None – 0.

The motion carried 6-0.

Trustee Hall moved to authorize and approve an Engineering Agreement with Donohue & Associates, Inc. for the Wastewater Nutrient Assessment Reduction Plan Study in the amount of \$27,010.00. Trustee Robertson seconded the motion. On a Roll Call vote:

YEAS: Hall, Robertson, Weathersby, Johnson, Crider and Wilkerson – 6.

NAYS: None - 0.

The motion carried 6-0.

Trustee Weathersby moved to authorize and approve Change Order No. 1 with Burns & McDonnell in the amount of \$19,864.00 for the Phase Two Property Release Application. Trustee Crider seconded the motion. On a Roll Call vote:

YEAS: Weathersby, Johnson, Crider, Wilkerson, Hall and Robertson – 6.

NAYS: None – 0.

The motion carried 6-0.

C. Consideration of Ordinances & Resolutions

Ordinance No. 2692

AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE III OF CHAPTER TEN “BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL BUILDING CODE

Trustee Hall moved to pass Ordinance No. 2692. Trustee Robertson seconded the motion. On a Roll Call vote:

YEAS: Hall, Robertson, Weathersby, Johnson, Crider and Wilkerson – 6.

NAYS: None – 0.

The motion carried 6-0.

Ordinance No. 2693

AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE IV OF CHAPTER TEN “BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL RESIDENTIAL CODE

Trustee Crider moved to pass Ordinance No. 2693. Trustee Weatherby seconded the motion. On a Roll Call vote:

YEAS: Crider, Wilkerson, Hall, Robertson, Weathersby and Johnson – 6.

NAYS: None -0.

The motion carried 6-0.

Ordinance No. 2694

AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE XII OF CHAPTER TEN “BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE

Trustee Johnson moved to pass Ordinance No. 2694. Trustee Robertson seconded the motion. On a Roll Call vote:

YEAS: Johnson, Crider, Wilkerson, Hall, Robertson and Weathersby– 6.

NAYS: None – 0.

The motion carried 6-0.

Resolution No. 02-22-1355

A RESOLUTION AUTHORIZING AND APPROVING LEASE AND AMENDMENT TO EXTEND THE TERM OF LEASE AGREEMENT (200 West Grove – McCleod Communications Services, LLC)

Trustee Hall moved to pass Resolution No. 02-22-1355. Trustee Johnson seconded the motion. On a Roll Call vote:

YEAS: Hall, Robertson, Weathersby, Johnson, Crider and Wilkerson – 6.

NAYS: None – 0.

The motion carried 6-0.

Resolution No. 02-22-1356

**A RESOLUTION AUTHORIZING AND APPROVING THE VILLAGE OF
RANTOUL, CHAMPAIGN COUNTY, ILLINOIS TO PROCEED WITH THE
OFFERING FOR SALE OF TAX INCREMENT REFUNDING REVENUE BONDS**

Trustee Wilkerson moved to pass Resolution No. 02-22-1356. Trustee Johnson seconded the motion. John Vezzetti with Bernardi Securities reviewed the proposed savings by refinancing. On a Roll Call vote:

YEAS: Wilkerson, Hall, Robertson, Weathersby, Johnson and Crider – 6.

NAYS: None – 0.

The motion carried 6-0.

Resolution No. 02-22-1357

**A RESOLUTION AUTHORIZING TEMPORARY CLOSING OF STATE
RIGHT-OF-WAY FOR ANNUAL COMMUNITY EVENTS
(Fourth of July Parade/ Celebration)**

Trustee Wilkerson moved to pass Resolution No. 02-22-1357. Trustee Johnson seconded the motion. On a Roll Call vote:

YEAS: Wilkerson, Hall, Robertson, Weathersby, Johnson and Crider – 6.

NAYS: None – 0.

The motion carried 6-0.

Resolution No. 02-22-1358

**A RESOLUTION AUTHORIZING AND APPROVING AN
INTERGOVERNMENTAL AGREEMENT WITH URBANA AND CHAMPAIGN
SANITARY DISTRICT (Nutrient Assessment and Reduction Plan)**

Trustee Johnson moved to pass Resolution No. 02-22-1358. Trustee Hall seconded the motion. On a Roll Call vote:

YEAS: Johnson, Crider, Wilkerson, Hall, Robertson and Weathersby – 6.

NAYS: None – 0.

The motion carried 6-0.

D. New Business

There was no new business presented

E. Announcement

There were no announcements

F. Closed Session

No closed session was held.

G. Adjournment

Trustee Wilkerson moved to adjourn the meeting. Trustee Weathersby seconded the motion. On a Roll Call vote:

YEAS: Wilkerson, Hall, Robertson, Weathersby, Johnson and Cider – 6.

NAYS: None – 0.

The motion carried 6-0.

MEETING ADJOURNED AT 6:29 PM

Janet E. Gray, MMC
Village Clerk

Approved

Charles Smith
Village President

ATTEST:

Janet E. Gray, MMC
Village Clerk

I, Janet E. Gray, Village Clerk of the Village of Rantoul, Illinois, do hereby certify that the foregoing minutes are a true and correct copy of the Regular Meeting of the Board of Trustees held February 8, 2022 as the same appears on the records of the Village now in my custody and keeping.

Janet E. Gray, MMC
Village Clerk

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2701</u> , AN ORDINANCE AUTHORIZING AND APPROVING LAND LEASE AGREEMENT WITH BOW RENEWABLES LLC (3200 N 1800 E Road)	DEPARTMENT: Administration
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2701 Ordinance - Authorizing Solar Facility Land Lease - 3200 N 1800 E Road (BOW Renewables LLC) 2. Solar Facility Land Lease - 3200 N 1800 E Road - Bow Renewables LLC 030822	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS:	
RECOMMENDED ACTION:	
DEPARTMENT HEAD APPROVAL Scott Eisenhauer	VILLAGE ADMINISTRATOR Scott Eisenhauer

ORDINANCE NO. 2701

AN ORDINANCE AUTHORIZING AND APPROVING LAND LEASE AGREEMENT WITH BOW RENEWABLES LLC

WHEREAS, the Corporate Authorities of the Village have determined that it is advantageous and desirable for municipal purposes and the public welfare of its residents for the Village to lease certain real estate in order to promote and protect the health, safety, and welfare of the public, particularly the construction and operation of solar facilities; and

WHEREAS, there has been presented to and there is now before this meeting of the President and the Board of Trustees (the **“Corporate Authorities”**) of the Village of Rantoul, Champaign County, Illinois (the **“Village”**) at which this Ordinance is adopted, the form of a certain Land Lease Agreement (the **“Agreement”**) with BOW Renewables LLC (the **“Lessee”**) in connection with the certain parcels of real estate, together with related improvements and appurtenances located thereon (as more particularly described in the Contract, the **“Premises”**) set forth below:

Parcel 1: PIN 14-03-24-400-002, being a 20-acre lot immediately north of the Northeast Corner of 3200 N & 1800 E Roads (Sec 24, Twp 22N, Range 9E)

Parcel 2: PIN 14-03-24-400-003, being a 20-acre lot at the Northeast corner of 3200 N & 1800 E Roads (Sec 24, Twp 22N, Range 9E)

NOW THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF RANTOUL, CHAMPAIGN COUNTY, ILLINOIS, as follows:

Section 1. That the Agreement, in substantially the form thereof which has been presented to and is now before the meeting of the Corporate Authorities of the Village at which this Ordinance is adopted, be and the same is hereby authorized and approved.

Section 2. That for and on behalf of the Village, the Village President is hereby authorized to execute and deliver the Agreement, and the Village Clerk is hereby authorized to attest thereto, with such insertions, corrections and technical revisions in the form of such Agreement as may be approved by such Village President, such execution or acceptance thereof, as the case may be, to constitute conclusive evidence of such approval of any and all such insertions, corrections or technical revisions therein from the form of the Agreement now before the meeting of the Corporate Authorities at which this Ordinance is adopted.

Section 3. That from and after the effective date of this Ordinance, the proper officers, employees and agents of the Village are hereby authorized, empowered and directed to do all such acts and things and to prepare, execute, deliver, acknowledge and file all such supplemental documents, agreements, certificates, forms, receipts and other instruments as may be necessary to accomplish the purposes of this Ordinance and the consummation of the lease of the Premises in accordance with the respective terms, conditions and undertakings of the Agreement.

This Ordinance is hereby passed, the “ayes” and “nays” being called, by the concurrence of a majority of the members of the Corporate Authorities then present at a Village Board meeting held on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

SOLAR LEASE AND EASEMENT AGREEMENT

Champaign County, State of Illinois

THIS SOLAR LEASE AND EASEMENT AGREEMENT (this “**Agreement**”) is made, dated and effective as of March 8, 2022 (the “**Effective Date**”), by and between **The Village Of Rantoul, Illinois**, an Illinois Municipal Corporation (together with its successors and assigns, comprising “**Owner**”), and **BOW Renewables, LLC**, a Delaware limited liability company (together with its transferees, successors and assigns, “**Grantee**”), and in connection herewith, Owner and Grantee agree, covenant and contract as set forth in this Agreement. Owner and Grantee are sometimes referred to in this Agreement as a “**Party**” or collectively as the “**Parties**”.

KEY TERMS	Duration	Compensation
Development Term:	Up to three (3) Years	\$3,000/year; or \$500 upon execution and \$19,500 upon commencement of Construction Term or \$3,000 upon Grantee termination
Construction Term:	1 Year or Operations Date if occurs sooner than one (1) year	\$250/acre
First Extended Term:	Thirty (30) Years	\$1,500/acre*
Second Extended Term:	Five (5) Years	\$1,500/acre*
Third Extended Term	Five (5) Years	\$1,500/acre*

*As adjusted by provisions in Exhibit B

1. Lease; Easement. For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Owner and Grantee, upon the terms and conditions set forth in this Agreement, Owner hereby grants and conveys to Grantee an exclusive easement and lease to convert, maintain and capture the flux of solar energy over across and through the surface estate of that certain real property, including, but not limited to, the air space thereon, located in Champaign County, (the “County”), State of Illinois consisting of approximately 30.74 acres, as more particularly described in Exhibit A attached hereto and incorporated herein (the “Property”), and a portion of that Property upon which Solar Facilities are intended to be constructed, as preliminarily shown on Exhibit A, subject to adjustment by survey, (the “Leased Area”) for the purposes set forth below.

- 1.1. Purposes of the Lease/Easement. This Agreement is solely and exclusively for solar energy purposes (as such term is broadly defined, including ancillary rights related thereto and necessary for the development and operation of Solar Facilities (as defined below)), and not for any other purpose, and Grantee shall have the exclusive right to develop and use the Leased Area for solar energy purposes and to derive all profits therefrom, including but not limited to the following activities (collectively, “Site Activities”):

- (a) Converting solar energy into electrical energy, and collecting and transmitting the electrical energy so converted;
- (b) Determining the feasibility of solar energy conversion and other power generation on the Property or on adjacent lands, including studies of solar energy emitted upon, over and across the Property and other meteorological data, environmental studies and extracting soil samples;
- (c) Constructing, laying down, installing, using, replacing, relocating, reconstructing and removing from time to time, and monitoring, maintaining, repairing and operating the following only for the benefit of the Project or Projects (as defined below) (i) solar energy collection and electrical generating equipment of any kind (including, without limitation, any such equipment utilizing photovoltaic technology (collectively, “Solar Generating Equipment”); (ii) overhead and underground electrical distribution, collection, transmission and communications lines or cables, electric combiners, inverters, transformers and substations, energy storage facilities, and telecommunications equipment; (iii) roads and crane pads; (iv) meteorological measurement equipment; (v) control buildings, operations and maintenance facilities and buildings; and (vi) installing, operating, maintaining, repairing and replacing any other improvements, whether accomplished by Grantee or a third party authorized by Grantee, that Grantee reasonably determines are necessary, useful or appropriate to accomplish any of the foregoing (all of the above, including the Solar Generating Equipment, collectively “Solar Facilities”). The term “Project”, for the purposes of this Agreement, means an integrated solar energy generation system, consisting of Solar Facilities, that is constructed and operated on the Leased Area, and/or adjacent lands, by Grantee, or a third party authorized by Grantee. Grantee may determine whether any particular group of Solar Facilities constitutes a single Project or multiple Projects for purposes of this Agreement, and in the case of multiple Projects, which portion of the Property shall be included within each Project.

1.2. Other Uses. During the Development Term and thereafter, Owner agrees to provide Grantee with current information concerning the status and location of all other land uses occurring on the Property (including, without limitation, agricultural use, industrial use and oil and gas exploration and production activities). Subject to Section 9.2 herein, Owner may continue to utilize the Property and enter into third party agreements regarding the Property, provided that any new leases or renewals and or extensions of existing leases, options to lease, seismic operations, or any other agreement made by Owner with a third party regarding the Property (including any of the foregoing related to water, oil, gas or other minerals) shall contain language that states that such third party shall not disturb, interfere with, preclude, or destroy Grantee’s rights hereunder.

1.3. Development Term:

- (a) Due Diligence. Within ten (10) days following the Effective Date, Owner will provide Grantee with copies of all leases, contracts, studies, reports (including all environmental reports), maps, surveys, litigation documentation, correspondence and any other materials in Owner’s possession or reasonable control relating to the Property.

- (b) Title. Grantee, at Grantee's cost, may obtain a preliminary title report (the "Title Report") and/or survey (the "Survey") for the Property. If Grantee, in its sole discretion, determines that the existence, use, operation, implementation or exercise of any matters identified by the Title Report or Survey could materially delay, interfere with, impair or prevent Grantee's development, operation or financing of the Solar Power Facilities, then Grantee may notify Owner of such issues and Owner shall cooperate with Grantee in efforts to obtain a release, subordination, non-disturbance agreement, consent or other agreement (in a form reasonably acceptable to Grantee) from the holder(s) of such rights.
- (c) Right of Entry
 - (i) Investigations. Beginning on the Effective Date and throughout the Development Term, Owner shall provide to Grantee, its employees, agents, contractors, and current or potential lenders or investors, reasonable access to the Property to conduct the Survey, evaluate, conduct and perform inspections, including soil and water testing, environmental assessments (Phase I and/or Phase II), engineering surveys, topographical, structural and geo-technical tests, and such other tests and inspections (collectively, the "Investigations") that Grantee may deem necessary or advisable in its sole discretion, upon Grantee providing at least twenty-four (24) hours' prior notice to Owner. Grantee shall keep the Property free from any liens arising out of any work performed, materials furnished or obligations incurred by or on behalf of Grantee in connection with the Investigations. Grantee shall remove, or cause the removal of, any such lien by bond or otherwise within sixty (60) days after Grantee becomes aware of the existence of such lien and if Grantee shall fail to do so, Owner may pay the amount necessary to remove such lien, without being responsible for investigating the validity thereof.

2. Grant of Additional Easements.

- 2.1. Owner hereby grants, conveys and warrants to Grantee the following additional easements upon, over, across and under the Property and all other property that is adjacent to the Property, and is owned or controlled by Owner, as of the Effective Date:
 - (a) Non-Obstruct. An exclusive easement to capture, use and convert the unobstructed flux of solar energy over and across the Property from all angles and from sunrise to sunset at the Property during each day of the Term.
 - (b) Interference. An exclusive easement for electromagnetic, audio, visual, view, light, noise, vibration, electrical, radio interference, or other effects attributable to the Solar Generating Equipment, the Project or any Site Activities;
 - (c) Other Easements. Any other easements, of any nature or type, which Grantee in its sole and absolute discretion determines are necessary to or favorable for the Project, including but not necessarily limited to, drainage easements, and geotechnical and environmental testing and sampling easements;
- 2.2. Access Easement. Owner hereby grants, conveys and warrants to Grantee a non exclusive access easement for ingress to and egress from the Project or Projects over and across the Property by

means of roads and lanes thereon if existing or later constructed by Owner, or otherwise by such route or routes as Grantee may construct from time to time;

3. Term. The term of this Agreement shall commence on the Effective Date and continue for the following described periods (collectively, the “Term”):
 - 3.1. Development Term. This Agreement shall be for an initial term (the “Development Term”) commencing on the Effective Date and continuing until the earlier to occur of: (a) the third (3rd) anniversary of the Effective Date or (b) the Commencement of Construction. Commencement of Construction shall be deemed to occur upon delivery of materials or equipment to the Leased Area to be utilized for installation of the Solar Facilities.
 - 3.2. Construction Term. Upon the expiration of the Development Term, the term of this Agreement shall automatically extend and continue (“Construction Term”) until the earlier to occur of: (a) the first date on which the Project generates power in commercial quantities on a continual basis and such power is delivered to the grid as declared by Grantee, or (b) 12 months after Commencement of Construction, which is hereinafter referred to as the “Operations Date”.
 - 3.3. First Extended Term. Upon the Operations Date, the term of this Agreement shall automatically extend for an additional thirty (30) year term (the “First Extended Term”).
 - 3.4. Second Extended Term. Provided that Grantee has not fully surrendered or terminated this Agreement, then on or before the expiration of the First Extended Term, Grantee may, at its option, extend the term of this Agreement for an additional five (5) year period (the “Second Extended Term”). Grantee may exercise its option to extend this Agreement for the Extended Term by giving Owner written notice thereof on or before the date that is one hundred and eighty (180) days prior to the expiration of the First Extended Term.
 - 3.5. Third Extended Term. Provided that Grantee has not fully surrendered or terminated this Agreement, then on or before the expiration of the Second Extended Term, Grantee may, at its option, extend the term of this Agreement for an additional five (5) year period (the “Third Extended Term”). Grantee may exercise its option to extend this Agreement for the Extended Term by giving Owner written notice thereof on or before the date that is one hundred and eighty (180) days prior to the expiration of the Second Extended Term.
4. Payments to Owner. In consideration of the rights granted hereunder, Grantee will pay Owner the amounts set forth in Exhibit B attached hereto. Exhibit B shall not be recorded without the specific prior written consent of Grantee.
5. Ownership of Solar Facilities. Owner shall have no ownership, lien, security or other interest in any Solar Facilities installed on the Property, or any profits derived therefrom, and Grantee may remove any or all Solar Facilities at any time. Owner acknowledges and agrees that the Solar Facilities shall remain the personal property of Grantee and shall not become fixtures, notwithstanding the manner in which the Solar Facilities are or may be attached to the Property. Owner shall have no right, title or interest in the Solar Facilities or any component thereof, notwithstanding that any such Solar Facilities may be physically mounted or adhered to the Property or structures, buildings or fixtures on the Property. Except for those payments described herein and in Exhibit B, Owner shall not be entitled to

any other payments or benefits accrued by or from the Project, including, but not limited to, renewable energy credits, environmental credits or tax credits.

6. Taxes. During the term, Grantee, as owner of the Commercial Solar Energy System, shall pay, when due, all real property taxes and assessments levied against the Leased Area, as required under 35 ILCS 200/15-60, 35 ILCS 200/9-19535, and ILCS 200/10-720. "Commercial Solar Energy System" means any device or assembly of devices that (i) is ground installed and (ii) uses solar energy from the sun for generating electricity for the primary purpose of wholesale or retail sale and not primarily for consumption on the property on which the device or devices reside. During the Construction Term Grantee as owner of the ground installed Commercial Solar Energy System shall commission a metes and bounds survey description of the land upon which the Commercial Solar Energy System is installed, including access routes, over which the owner of the Commercial Solar Energy System has exclusive control. Grantee as owner of the ground installed Commercial Solar Energy System shall, at his or her own expense, use an Illinois-registered land surveyor to prepare the survey. Grantee as owner of the ground installed Commercial Solar Energy System shall deliver a copy of the survey to the chief county assessment officer and to the Owner as owner of the land upon which the ground installed Commercial Solar Energy System is constructed. Upon receiving a copy of the survey and an agreed acknowledgement to the separate parcel identification number by the Owner as owner of the land upon which the ground installed Commercial Solar Energy System is constructed, the chief county assessment officer shall issue a separate parcel identification for the real property improvements, including the land containing the ground installed Commercial Solar Energy System, to be used only for the purposes of property assessment for taxation. The property records shall contain the legal description of the Commercial Solar Energy System parcel and describe any leasehold interest or other interest of the owner of the Commercial Solar Energy System in the property.
7. Indemnity/Liability.
 - 7.1. Each Party (the "Indemnifying Party") shall defend, indemnify and hold harmless the other Party and such other Party's Related Persons (as defined below)(each, an "Indemnified Party") from and against any and all third party (excluding Related Persons) claims, litigation, actions, proceedings, losses, damages, liabilities, obligations, costs and expenses, including reasonable attorneys', investigators' and consulting fees, court costs and litigation expenses (collectively, "Claims") suffered or incurred by such Indemnified Party, arising from the negligence or intentional misconduct of the Indemnifying Party. Notwithstanding the foregoing to the contrary, Grantee may elect, upon written notice, to control any or all aspects of the defense of any legal action covered by the prior sentence.
 - 7.2. In no event shall either Party be liable to the other Party to the extent any Claim is caused by, arising from or contributed by the negligence or intentional misconduct of such other Party or any Related Person thereof.
 - 7.3. Except for payments expressly required herein (such as crop damage compensation), in no event, whether as a result of breach of contract, warranty, indemnity, tort (including negligence), strict liability or otherwise, shall either Party be liable to the other Party for loss of profit or revenues, loss of business opportunities or for any other special, consequential, incidental, indirect or exemplary damages.

- 7.4. In no event shall Grantee or its Related Persons be liable to Owner for property damage or personal injuries to Owner or its Related Persons attributable to risks of known and unknown dangers associated with normal day-to-day operation of electrical generating facilities, such as noise, electromagnetic fields, and glare.
- 7.5. In no event shall either Party or its Related Persons be liable to the Other Party for expenses incurred in such other Party's lawful enforcement of its rights under this Agreement for a default during any applicable cure period.
- 7.6. As used herein the term "Related Person" shall mean:
- (a) With respect to Owner, any principals, employees, servants, guests or invitees of Owner or those third persons over whom Owner exercises actual control; or
 - (b) With respect to Grantee, any affiliates, contractors, lessees, and sublessees of Grantee, and each of their respective, principals, officers, employees, servants, agents, representatives, subcontractors, licensees, invitees, and/or guests.
- 7.7. This Section 7 shall survive the expiration or earlier termination of this Agreement.
8. Grantee's Representations, Warranties, and Covenants. Grantee hereby represents, warrants, and covenants to Owner that:
- 8.1. Grantee's Authority. Grantee has the unrestricted right and authority to execute this Agreement. Each person signing this Agreement on behalf of Grantee is authorized to do so. Upon execution by all Parties hereto, this Agreement shall constitute a valid and binding agreement enforceable against Grantee in accordance with its terms.
- 8.2. Minimal Impacts. Grantee agrees to conduct its Site Activities and to locate and operate its Solar Facilities in such a way as to reasonably minimize impacts to the Property and to Owner's activities on the Property, to the extent practical, without negatively impacting the Solar Facilities. If Owner's Property is fenced, all access roads constructed by Grantee on the Property shall be gated by Grantee at Grantee's expense, and Owner shall be furnished with keys or other ability to open and close such gates. However, there shall be no access to the Leased Area "as fenced", except for an emergency. During such an emergency the city fire chief or his designee may order and execute an emergency shutdown. Access to the Leased Area will be coordinated with the fire department.
- 8.3. Insurance. Grantee shall, at its expense, be responsible for assuring that insurance coverages, as would be customary and reasonable for similarly situated companies performing the work carried out by Grantee at such time, are maintained, including, without limitation, adequate coverage to cover any personal injuries or accidents that could reasonably be expected as a direct result of the Site Activities conducted by Grantee or its Related Persons on the Leased Area. At a minimum, at all times during which Grantee is conducting any activities on the Leased Area and at all times during the Term of this Agreement, Grantee shall maintain in effect: (i) Commercial General Liability Insurance, including bodily injury and property damage coverage with minimum limits of \$1 Million Dollars per occurrence and \$2 Million Dollars aggregate; (ii) Employer's Liability Insurance with minimum limits of \$500,000 Dollars per occurrence (iii), Auto Liability with

minimum limits of \$500,000 Dollars per occurrence, (iv) Worker's Compensation insurance with statutory limits; and (v) Umbrella Liability Insurance with minimum limits of \$5 Million Dollars per occurrence and \$5 Million Dollars aggregate. Grantee shall name Owner as additional insured on such insurance policies and upon written request, provide Owner with certificates of such insurance policies.

- 8.4. Requirements of Governmental Agencies. Grantee, at its expense, shall comply in all material respects with valid laws, ordinances, statutes, orders, and regulations of any governmental agency applicable to the Solar Facilities. Grantee shall have the right, in its sole discretion, to contest by appropriate legal or administrative proceedings, the validity or applicability to Grantee, the Property or Solar Facilities of any law, ordinance, statute, order, regulation, property assessment, or the like now or hereafter made or issued by any federal, state, county, local or other governmental agency or entity. Any such contest or proceeding shall be controlled and directed by Grantee.
 - 8.5. Construction Liens. Grantee shall keep the Leased Area free and clear of all liens and claims of liens for labor and services performed on, and materials, supplies, or equipment furnished to, the Leased Area in connection with Grantee's use of the Leased Area pursuant to this Agreement; provided, however, that if Grantee wishes to contest any such lien, Grantee shall, at Grantee's sole discretion and within sixty (60) days after it receives written notice of the filing of such lien, either (i) provide a bond to Owner for the amount of such lien, or (ii) provide Owner with title insurance insuring Owner's interest in the Leased Area against such lien claim.
 - 8.6. Hazardous Materials. Neither Grantee nor its Related Persons shall violate any federal, state, or local law, ordinance, or regulation relating to the generation, manufacture, production, use, storage, release, discharge, disposal, transportation or presence of asbestos-containing materials, petroleum, explosives or any other substance, material, or waste which is now or hereafter classified as hazardous or toxic, or which is regulated under current or future federal, state, or local laws or regulations, on or under the Leased Area (each, a "Hazardous Material"). Grantee shall promptly notify Owner if any violation occurs.
9. Owner's Representations, Warranties, and Covenants. Owner hereby represents, warrants, and covenants as follow:
 - 9.1. Owner's Authority. Owner is the sole fee simple owner of the Property including the subsurface estate thereof, and has the unrestricted right and authority to execute this Agreement and to grant to Grantee the rights granted hereunder. Each person signing this Agreement on behalf of Owner is authorized to do so. Upon execution by all Parties hereto, this Agreement shall constitute a valid and binding agreement enforceable against Owner in accordance with its terms.
 - 9.2. No Interference. Owner's activities and any grant of rights Owner makes to any person or entity, shall not, currently or prospectively, disturb or interfere with: the construction, installation, maintenance, or operation of the Solar Facilities, whether located on the Property or elsewhere; access over the Property to such Solar Facilities; any Site Activities; or the undertaking of any other activities permitted hereunder. Without limiting the generality of the foregoing, Owner shall not erect any structures, plants or other equipment, or enter into any third party agreements or amend or extend any existing agreements ("Third Party Agreements") or undertake any other

activities (an “Owner Action” or collectively the “Owner Actions”) that may: (i) interfere with Grantee’s right to install Solar Facilities on any portion of the Property, (ii) potentially cast a shadow onto the Solar Facilities, (iii) cause a decrease in the output or efficiency of any Solar Facilities, (iv) interrupt the flux of solar energy upon, across and over any portion of the Property used or to be used by the Solar Facilities, or (v) otherwise interfere with Grantee’s operations on the Property (each an “Interference”). Prior to undertaking an Owner Action, that may cause an Interference, Owner shall consult with Grantee to confirm that such Owner Action will not cause any Interference. If Grantee reasonably determines the Owner Action could cause an Interference, then Owner shall not be permitted to undertake such Owner Action. Owner shall not disturb or permit the disturbance of the subsurface such that may impact in any way the structural integrity or the operations and maintenance of the Solar Facilities. Grantee shall have the right to trim existing trees to maintain approximately their same height and width as exists as of the date hereof for the purpose of not interfering with the flux of solar energy from any angle upon, across and over the Property. If Owner becomes aware of any potential development or other activity on adjacent or nearby properties that could diminish the sunlight to the Property, Owner shall advise Grantee of such information and reasonably cooperate with Grantee in measures to preserve existing levels of sunlight at the Property.

- 9.3. Liens and Tenants. Except as may be disclosed in the real property records of the County, or as disclosed by Owner in writing to Grantee on or prior to the Effective Date, Owner represents there are no leases (including oil, gas and/or other mineral interests), easements, licenses, rights of way, mortgages, deeds of trust, liens, security interests, mechanic’s liens or any other encumbrances encumbering all or any portion of the Property that could interfere with Grantee’s operations on the Property, including mechanic’s liens. If such Owner representation and warranty is breached and such breach is not caused by Grantee, then Owner shall fully cooperate and assist Grantee in removing or limiting such interference, including, but not limited to, obtaining a subordination and non-disturbance agreement where Grantee deems it necessary, with terms and conditions reasonably requested by Grantee to protect its rights hereunder, from each party that holds such rights (recorded or unrecorded), and in the case of monetary liens such as mechanic’s liens, bonding over any such liens in an amount that may be reasonably requested by Grantee.
- 9.4. Requirements of Governmental Agencies and Setback Waiver. Owner shall provide best efforts to assist and fully cooperate with Grantee, at no out-of-pocket expense to Owner, in complying with or obtaining any land use permits and approvals, building permits, environmental impact reviews, tax abatements or any other permits and approvals reasonably necessary for the financing, construction, installation, monitoring, repair, replacement relocation, maintenance, operation or removal of Solar Facilities, including, but not limited to, execution of applications and documents reasonably necessary for such approvals and permits, and participating in any appeals or regulatory proceedings respecting the Solar Facilities. To the extent permitted by law, Owner hereby waives enforcement of any applicable setback requirements respecting the Solar Facilities to be placed on or near the Property that are reasonably necessary, in Grantee’s sole and absolute discretion, to carry out Grantee’s power-generating activities on or near the Premises.
- 9.5. Hazardous Materials. Neither Owner nor its Related Persons shall violate any federal, state or local law, ordinance or regulation relating to the generation, manufacture, production, use, storage, release, discharge, disposal, transportation or presence of any Hazardous Material. Owner shall promptly notify Grantee if any such violation occurs. To the best of Owner’s knowledge, (i) no

underground tanks are now located or at any time in the past have been located on the Property or any portion thereof, (ii) no Hazardous Material has been generated, manufactured, transported, produced, used, treated, stored, released, disposed of or otherwise deposited in or on or allowed to emanate from the Property or any portion thereof other than as permitted by, or in accordance with, applicable laws and regulations, and (iii) there are no Hazardous Materials in, on or emanating from the Property or any portion thereof which may support a claim or cause of action under any applicable law. Owner certifies it has never received any notice or other communication from any governmental authority alleging that the Property is or was in violation of any applicable law.

9.6. **Litigation.** No litigation is pending, and, to the best of Owner's knowledge, no actions, claims or other legal or administrative proceedings are pending, threatened or anticipated with respect to, or which could affect, the Property. If Owner learns that any such litigation, action, claim or proceeding is threatened or has been instituted, Owner shall promptly deliver notice thereof to Grantee and provide Grantee with periodic updates of the status of said litigation, action, claim or proceeding that is ongoing.

9.7. **Title Insurance and Financing.** Owner agrees that Owner shall execute and deliver to Grantee any documents reasonably required by the title insurance company and/or a financing party within five (5) business days after presentation of said documents by Grantee; provided, however, in no event shall such documents materially increase any obligation or materially decrease any right of Owner hereunder. Owner shall have no obligation to initiate the process to obtain title insurance on behalf of the Grantee.

10. Assignment.

10.1. **Collateral Assignments.** Grantee shall have the absolute right in its sole and exclusive discretion, without obtaining the consent of Owner, to finance, mortgage, encumber, hypothecate, pledge or transfer to one or more Mortgagees any and all of the rights granted hereunder, including the easements granted in Section 2, and/or any or all rights or interests of Grantee in the Leased Area or in any or all of the Solar Facilities.

10.2. **Non-Collateral Assignments.** After curing any defaults in existence for which Grantee has received a Notice of Default, Grantee shall have the right, without the prior consent of Owner, to sell, convey, lease, assign or transfer (including granting co-easements, separate easements, subeasements) any or all of its rights hereunder in and to any or all of the Property provided such transfer is related to a Project. Grantee shall be relieved of all of its obligations arising under this Agreement, as to all or such portion of its interests in the Property transferred, from and after the effective date of such transfer, provided such rights and obligations have been assumed by such transferee.

10.3. **Acquisition of Interest.** The acquisition of all interests, or any portion of interest, in Grantee by another person shall not require the consent of Owner or constitute a breach of any provision of this Agreement and Owner shall recognize the person as Grantee's proper successor.

11. Default and Remedies.

11.1. If a Party defaults in or otherwise fails to perform an obligation under this Agreement, the non-defaulting Party shall not have the right to exercise any remedies hereunder if the default is cured by the defaulting Party within sixty (60) days of receiving written notice of such default specifying in detail the default and the requested remedy (a “Notice of Default”); provided, that if the nature of the default requires, in the exercise of commercially reasonable diligence, more than sixty (60) days to cure, the non- defaulting Party shall not have the right to exercise any remedies hereunder as long as the defaulting Party commences performance of the cure within sixty (60) days of receipt of Notice of Default and thereafter completes such cure with commercially reasonable diligence. Further, if the Parties have a good faith dispute as to whether a payment is due hereunder, the alleged defaulting Party may deposit the amount in controversy (not including claimed consequential, special, exemplary or punitive damages) into escrow with any reputable third party escrowee, or may interplead the same, which amount shall remain undistributed and shall continue to accrue interest penalties pursuant to Exhibit B herein as if the payment were late, and no default shall be deemed to have occurred, until final decision by a court of competent jurisdiction or upon agreement by the Parties. No such deposit shall constitute a waiver of the defaulting Party’s right to institute legal action for recovery of such amounts.

11.2. Remedies. Except as qualified by Section 12 regarding Mortgagee Protections, should a default remain uncured beyond the applicable cure periods, the non-defaulting Party shall have the right to exercise any and all remedies available to it at law or in equity, all of which remedies shall be cumulative, including the right to enforce this Agreement by injunction, specific performance or other equitable relief. Notwithstanding anything in this Agreement to the contrary or any rights or remedies Owner might have at law or in equity, if any of Grantee’s Solar Facilities are then located on the Property and Grantee fails to perform any of its obligations hereunder beyond applicable cure periods, Owner shall be limited to pursuing damages and Owner may not commence any action to terminate or cancel this Agreement.

12. Mortgagee Protection. In the event that any mortgage, financing statement, or other security interest in this Agreement or in any Solar Facilities, or any portion thereof (a “Mortgage”), is entered into by Grantee then any person who is the mortgagee, grantee or beneficiary of a Mortgage (a “Mortgagee”) shall, for so long as its Mortgage is in existence and until the lien thereof has been extinguished, be entitled to the protections set forth in this Section 12. Grantee shall send written notice to Owner of the name and address of any such Mortgagee; provided that failure of Grantee to give notice of any such Mortgagee shall not constitute a default under this Agreement and shall not invalidate such Mortgage.

12.1. Mortgagee’s Right to Possession, Right to Acquire and Right to Assign. A Mortgagee shall have the absolute right: (i) to assign its security interest; (ii) to enforce its lien and acquire title to the leasehold and/or easement estate by any lawful means; (iii) to take possession of and operate the Solar Facilities or any portion thereof, to exercise all of Grantee’s rights hereunder, and to perform all obligations to be performed by Grantee hereunder, or to cause a receiver to be appointed to do so; and (iv) to acquire the leasehold and/or easement estate by foreclosure or by an assignment in lieu of foreclosure and thereafter to assign or transfer the leasehold and/or easement estate to a third party. Owner’s consent shall not be required for the acquisition of the

encumbered leasehold, easement or subeasement estate by a third party who acquires the same by foreclosure or assignment in lieu of foreclosure.

12.2. Notice of Default; Opportunity to Cure. As a precondition to exercising any rights or remedies as a result of any default of Grantee, Owner shall give a Notice of Default to each Mortgagee of which it has notice, concurrently with delivery of such notice to Grantee. In the event Owner gives a Notice of Default, the following provisions shall apply:

- (a) A “Monetary Default” means Grantee’s failure to pay when due any monetary obligation of Grantee under this Agreement. Any other default by Grantee is a “Non-Monetary Default.”
- (b) The Mortgagee shall have the same period after receipt of the Notice of Default to remedy the default, or cause the same to be remedied, as is given to Grantee, plus, in each instance, the following additional time periods: (i) thirty (30) days, for a total of ninety (90) days after receipt of the Notice of Default in the event of any Monetary Default; and (ii) sixty (60) days, for a total of one hundred twenty (120) days after receipt of the Notice of Default in the event of any Non-Monetary Default, provided that such 120-day period shall be extended for the time reasonably required to complete such cure, including the time required for the Mortgagee to perfect its right to cure such Non-Monetary Default by obtaining possession of the Leased Area (including possession by a receiver) or by instituting foreclosure proceedings, provided the Mortgagee acts with reasonable and continuous diligence. The Mortgagee shall have the absolute right to substitute itself for Grantee and perform the duties of Grantee hereunder for purposes of curing such default. Owner expressly consents to such substitution, agrees to accept such performance, and authorizes the Mortgagee (or its employees, agents, representatives or contractors) to enter upon the Leased Area to complete such performance with all the rights, privileges and obligations of the original Grantee hereunder. Owner shall not take any action to terminate this Agreement in law or equity prior to the expiration of the cure periods available to a Mortgagee as set forth above.
- (c) During any period of possession of the Leased Area by a Mortgagee (or a receiver requested by such Mortgagee) and/or during the pendency of any foreclosure proceedings instituted by a Mortgagee, the Mortgagee shall pay or cause to be paid all monetary charges payable by Grantee hereunder which have accrued and are unpaid at the commencement of said period and those which accrue thereafter during said period. Following acquisition of Grantee’s leasehold and easement estate by the Mortgagee or its assignee or designee as a result of either foreclosure or acceptance of an assignment and/or deed in lieu of foreclosure, or by a purchaser at a foreclosure sale, this Agreement shall continue in full force and effect and the Mortgagee or party acquiring title to Grantee’s leasehold and/or easement estate shall, as promptly as reasonably possible, commence the cure of all of Grantee’s defaults which are reasonably susceptible of being cured by the Mortgagee or party acquiring title, hereunder and thereafter diligently process such cure to completion, whereupon such defaults shall be deemed cured without incurring any default hereunder.
- (d) Any Mortgagee or other party who acquires Grantee’s leasehold and/or easement interest pursuant to foreclosure or assignment in lieu of foreclosure shall be liable to perform the obligations imposed on Grantee by this Agreement for such interest so long as such

Mortgagee or other party has ownership of the leasehold and/or easement estate or possession of the Leased Area.

- (e) Neither the bankruptcy nor the insolvency of Grantee shall be grounds for terminating this Agreement as long as all material obligations of Grantee under the terms of this Agreement are performed by the Mortgagee in accordance with the terms hereunder.
- (f) Nothing herein shall be construed to extend this Agreement beyond the Term or to require a Mortgagee to continue foreclosure proceedings after a default has been cured. If the default is cured and the Mortgagee discontinues foreclosure proceedings, this Agreement shall continue in full force and effect.

12.3. New Agreement to Mortgagee. If this Agreement terminates because of Grantee's default or if the leasehold and/or easement estate is foreclosed upon, or if this Agreement is rejected or disaffirmed pursuant to bankruptcy law or other law affecting creditors' rights, Owner shall, upon written request from any Mortgagee within ninety (90) days after such event, enter into a new agreement for the Leased Area on the following terms and conditions:

- (a) The terms of the new agreement shall commence on the date of termination, foreclosure, rejection or disaffirmance and shall continue for the remainder of the Term, at the same rent and subject to the same terms and conditions set forth in this Agreement.
- (b) The new agreement shall be executed within thirty (30) days after receipt by Owner of written notice of the Mortgagee's election to enter a new agreement, provided said Mortgagee: (i) pays to Owner all rent and other monetary charges payable by Grantee under the terms of this Agreement up to the date of execution of the new agreement, as if this Agreement had not been terminated, foreclosed, rejected or disaffirmed; (ii) performs all other obligations of Grantee under the terms of this Agreement, to the extent performance is then due and susceptible of being cured and performed by the Mortgagee; and (iii) agrees in writing to perform, or cause to be performed, all non-monetary obligations which have not been performed by Grantee and would have accrued under this Agreement up to the date of commencement of the new agreement, except those obligations which constitute non-curable defaults. Any new agreement granted to the Mortgagee shall enjoy the same priority as this Agreement over any lien, encumbrances or other interest created by Owner.
- (c) At the option of the Mortgagee, the new agreement may be executed by a designee of such Mortgagee without the Mortgagee assuming the burdens and obligations of Grantee thereunder.
- (d) If more than one Mortgagee makes a written request for a new agreement pursuant hereto, the new agreement shall be delivered to the Mortgagee requesting such new agreement whose Mortgage is prior in lien, and the written request of any other Mortgagee whose lien is subordinate shall be void and of no further force or effect.
- (e) The provisions of this Section 12 shall survive the termination, rejection or disaffirmance of this Agreement and shall continue in full force and effect thereafter to the same extent as if this Section 12 were a separate and independent contract made by Owner, Grantee and such

Mortgagee, and, from the effective date of such termination, rejection or disaffirmation of this Agreement to the date of execution and delivery of such new agreement, such Mortgagee may use and enjoy said Leased Area without hindrance by Owner or any person claiming by, through or under Owner, provided that all of the conditions for a new agreement as set forth herein are complied with.

12.4. Mortgagee's Consent to Amendment, Termination or Surrender. Notwithstanding any provision of this Agreement to the contrary, the Parties agree that so long as there exists an unpaid Mortgage, this Agreement shall not be modified or amended and Owner shall not accept a surrender of the Leased Area or any part thereof or accept a cancellation, termination or release of this Agreement from Grantee prior to expiration of the Term without the prior written consent of the Mortgagee. This provision is for the express benefit of and shall be enforceable by such Mortgagee.

12.5. No Waiver. No payment made to Owner by a Mortgagee shall constitute an agreement that such payment was, in fact, due under the terms of this Agreement; and a Mortgagee, having made any payment to Owner pursuant to Owner's wrongful, improper or mistaken notice or demand, shall be entitled to the return of any such payment.

12.6. No Merger. There shall be no merger of this Agreement, or of the leasehold or easement estate created by this Agreement, with the fee estate in the Property by reason of the fact that this Agreement or the leasehold estate or the easement estate or any interest therein may be held, directly or indirectly, by or for the account of any person or persons who shall own the fee estate or any interest therein, and no such merger shall occur unless and until all persons at the time having an interest in the fee estate in the Property and all persons (including Mortgagee) having an interest in this Agreement or in the leasehold estate or in the estate of Owner and Grantee shall join in a written instrument effecting such merger and shall duly record the same.

12.7. Estoppel Certificates, Etc. Owner shall execute such estoppel certificates (certifying as to such matters as Grantee may reasonably request, including without limitation that no default by Grantee then exists under this Agreement, if such be the case) and/or consents to assignment (whether or not such consent is actually required) and/or non-disturbance agreements as Grantee, any transferee of Grantee or Mortgagee may reasonably request from time to time. The failure of Owner to deliver any estoppel certificate within fifteen (15) days after Grantee's written request therefor shall be conclusive evidence that (i) this Agreement is in full force and effect and has not been modified; (ii) any amounts payable by Grantee to Owner have been paid through the date of such written request; (iii) there are no uncured defaults by Grantee; and (iv) the other certifications requested by Grantee in its estoppel, are in fact, true and correct.

13. Termination.

13.1. Grantee's Right to Terminate. Grantee shall have the right to terminate this Agreement as to all or any part of the Property at any time and without cause, effective upon written notice to Owner from Grantee. Upon the election to terminate this Agreement in part, a new survey shall be performed, if necessary, to redefine the boundaries of the Property and/or Leased Area as defined herein, and shall replace the existing descriptions of "Property" and "Leased Area" in Exhibit A. In the event Grantee terminates this Agreement prior to the Construction Term, Owner shall be

paid Three Thousand Dollars (\$3,000.00). (Applies only to election by Owner of \$19,500.000 Commencement of Construction compensation option)

13.2. Owner's Right to Terminate. Owner shall have the right to terminate all or any portion of its rights in this Agreement after the third (3rd) anniversary of the Effective Date if, at the time Owner's written termination notice is delivered, Grantee has not commenced construction or provided notice that construction will commence of Solar Facilities for the Project on the Property.

13.3.

- (a) Effect of Termination. Upon early termination or expiration of this Agreement, Grantee shall, as soon as practicable thereafter, but not later than one (1) year thereafter, remove Solar Facilities from the Leased Area, without additional charge or rental for such entry and removal, and without such entry constituting a holdover. All Property disturbed by Grantee shall be restored to a condition reasonably similar to its original condition as it existed upon the Effective Date. Any access roads constructed by Grantee may remain on the Property at Grantee's option, unless Owner specifically requests their removal in writing. This restoration period shall not exceed 12 months from the Termination date, and Grantee shall continue to pay annual rent to Owner during the restoration process. If Grantee fails to remove such Solar Facilities within twelve (12) months of termination of this Agreement, or such longer period as Owner may provide by extension, Owner shall have the right to restore the Leased Area and remove, or to cause removal of, any property owned by Grantee to the extent required by Grantee under this Section 13.3, and the right to receive reimbursement, less the salvage value of the Solar Facilities, from Grantee for any remaining amounts reasonably incurred for removal and restoration of the Leased Area.
- (b) Removal Bond. On or by the fifteenth (15th) anniversary of the Operation Date, Grantee shall obtain and deliver to Owner a letter of credit, or similar financial assurance, in form and substance reasonably satisfactory to Owner securing performance of Grantee's obligation to remove the Solar Facilities located on the Leased Area (the "Removal Bond"). The Removal Bond shall be equal to the estimated amount, if any, by which the cost of removing the Solar Facilities exceeds the salvage value of such Solar Facilities (the "Net Removal Costs"). To the extent that the Net Removal Costs are zero (or negative), a Removal Bond shall not be required on the part of the Grantee, provided, however that Grantee shall re-evaluate the need for a Removal Bond at least annually after the fifteenth (15th) anniversary of the Operations Date. Grantee shall not be required to deliver such Removal Bond to Owner if Grantee (i) is in the process of repowering or otherwise redeveloping the power generating units on the Leased Area with new power generating units (or commits in writing with notice to Owner to do so within two (2) years after the fifteenth (15th) anniversary of the Operations Date), or (ii) has delivered such financial assurance in connection with the permitting of the Project or any other portion of the Solar Facilities. Once in place, Grantee shall keep such Removal Bond, or similar financial assurance, in force throughout the remainder of the Term. The Net Removal Costs shall be determined by the Grantee acting in good faith. If any requirement or right provided in this section contradicts, conflicts, or is inconsistent with any state or local laws, ordinances, or regulations, such state or local laws, ordinances, or regulations shall take precedence over this provision and such requirement or right shall be invalidated.

14. Miscellaneous.

- 14.1. Force Majeure. If performance of this Agreement or of any obligation hereunder is prevented or substantially restricted or interfered with by reason of an event of Force Majeure (defined below), the affected Party, upon giving notice to the other Party, shall be excused from such performance to the extent of and for the duration of such prevention, restriction or interference, and the Term or any other time periods herein shall be extended for such period of time. The affected Party shall use its reasonable efforts to avoid or remove such causes of nonperformance and shall continue performance hereunder whenever such causes are removed. "Force Majeure" means fire, earthquake, flood, or other casualty, condemnation or accident; strikes or labor disputes; war, acts of terrorism, civil strife or other violence; any law, order, proclamation, regulation, ordinance, action, demand or requirement of any government agency or utility; or any other act or condition beyond the reasonable control of a Party hereto. In the event of any of the foregoing events of casualty, Grantee's payment obligation described in Exhibit B, attached hereto and incorporated herein, shall remain and shall not abate.
- 14.2. Confidentiality. To the fullest extent allowed by law, Owner shall maintain in the strictest confidence, and Owner shall require each Related Person of Owner to maintain in the strictest confidence, for the sole benefit of Grantee, all information pertaining to the financial terms of or payments under this Agreement, Grantee's site or product design, methods of operation, methods of construction, power production or availability of the Solar Facilities, and the like, whether disclosed by Grantee or discovered by Owner, unless such information either (i) is in the public domain by reason of prior publication through no act or omission of Owner or any Related Person of Owner, or (ii) was already known to Owner at the time of disclosure and which Owner is free to use or disclose without breach of any obligation to any person or entity. To the fullest extent permitted by law, Owner shall not use such information for its own benefit, publish or otherwise disclose it to others, or permit its use by others for their benefit or to the detriment of Grantee. Notwithstanding the foregoing, Owner may disclose such information to any auditor or to Owner's family members, lenders, attorneys, accountants and other personal advisors; any prospective purchaser of or lenders for the Property; or pursuant to lawful process, subpoena or court order; provided Owner in making such disclosure advises the party receiving the information of the confidentiality of the information and obtains the agreement of said party not to disclose the information.
- 14.3. Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon Owner and Grantee and, to the extent provided in any assignment or other transfer under Section 10 hereof, any transferee, and their respective heirs, transferees, successors and assigns, and all persons claiming under them. References to Grantee in this Agreement shall be deemed to include transferees of Grantee that hold a direct ownership interest in this Agreement and actually are exercising rights under this Agreement to the extent consistent with such interest.
- 14.4. Memorandum; Recording. At Grantee's option: (i) Grantee may record a copy of this Agreement, excluding Exhibit B, or (ii) upon request from Grantee, Owner shall execute in recordable form, and Grantee may then record, a memorandum of this Agreement substantially in the form of Exhibit D attached hereto, incorporating only those non-substantive changes to the form as may be required by the applicable jurisdiction in which recording is sought and to reflect the terms of this Agreement. Owner hereby consents to the recordation of the interest of a

transferee of Grantee in the Leased Area. With respect to the First Extended Term and Second Extended Term, upon request from Grantee, Owner shall execute, in recordable form, and Grantee may then record, a memorandum evidencing the First Extended Term and Second Extended Term, as applicable; provided that the execution of such memorandum is not necessary for such First Extended Term or Second Extended Term to be effective.

- 14.5. Notices. All notices or other communications required or permitted by this Agreement, including payments to Owner, shall be in writing and shall be deemed given when personally delivered to Owner or Grantee, or in lieu of such personal delivery services, the same day if sent via facsimile with confirmation, the next business day if sent via overnight delivery or five (5) days after deposit in the United States mail, first class, postage prepaid, certified, addressed as follows:

to Owner:	If to Grantee:
Village of Rantoul	BOW Renewables, LLC
333 South Tanner Street	1900 N. Tamiami Trail
Rantoul, IL 61866	North Fort Myers, FL 33903

Either Party may change its address for purposes of this paragraph by giving written notice of such change to the other Parties in the manner provided in this paragraph.

- 14.6. Entire Agreement; Amendments. This Agreement, together with all exhibits attached hereto, constitutes the entire agreement between Owner (and its respective successors, heirs, affiliates and assigns) and Grantee (and its respective successors, heirs, affiliates and assigns) respecting its subject matter, and supersedes any and all oral or written agreements. All of the provisions of the Exhibits shall be treated as if such provisions were set forth in the body of this Agreement and shall represent binding obligations of each of the Parties as part of this Agreement. Any agreement, understanding or representation respecting the Property, or any other matter referenced herein not expressly set forth in this Agreement or a previous writing signed by both Parties is null and void. No purported modifications or amendments, including without limitation any oral agreement (even if supported by new consideration), course of conduct or absence of a response to a unilateral communication, shall be binding on either Party unless in a writing signed by both Parties. Provided that no material default in the performance of Grantee's obligations under this Agreement shall have occurred and remain uncured, Owner shall cooperate with Grantee in amending this Agreement from time to time to include any provision that may be reasonably requested by Grantee for the purpose of implementing the provisions contained in this Agreement or for the purpose of preserving the security interest of any transferee of Grantee or Mortgagee.

- 14.7. Legal Matters. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Illinois. If the Parties are unable to resolve amicably any dispute arising out of or in connection with this Agreement, they agree that such dispute shall be resolved in the state courts located in the County. The Parties agree that any rule of construction to the effect that ambiguities are to be resolved in favor of either Party shall not be employed in the interpretation of this Agreement and is hereby waived. The prevailing Party in any action or proceeding for the enforcement, protection or establishment of any right or remedy under this Agreement shall be

entitled to recover its reasonable attorneys' fees and costs in connection with such action or proceeding from the non-prevailing Party.

14.8. Partial Invalidity. Should any provision of this Agreement be held, in a final and unappealable decision by a court of competent jurisdiction, to be either invalid, void or unenforceable, the remaining provisions hereof shall remain in full force and effect, unimpaired by the holding. Notwithstanding any other provision of this Agreement, the Parties agree that in no event shall the Term, or the term of any easement granted herein be longer than, respectively, the longest period permitted by applicable law.

14.9. Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which when taken together shall constitute one and the same document. For purposes of this Agreement, use of a facsimile, e-mail, or other electronic medium shall have the same force and effect as an original signature.

14.10. Tax and Renewable Energy Credits. All benefits and incentives that result from Grantee's development and use of the Leased Area for solar energy purposes shall accrue to the benefit of Grantee, including but not limited to any portfolio energy credits, rebates in lieu of portfolio energy credits, any reductions or credits in taxes and/or assessments, rebates, financing, federal, state and local grants, reductions in fees, participation in federal, state or local special programs or tax districts, and special programs of public utilities. If under applicable law, the holder of a leasehold or easement estate becomes ineligible for any tax credit, renewable energy credit or rebate, environmental credit or any other benefit or incentive for renewable energy established by any local, state or federal government, or any public utility, then, at Grantee's option, Owner and Grantee shall exercise good faith and negotiate an amendment to this Agreement or replace it with a different instrument so as to convert Grantee's interest in the Leased Area to a substantially similar interest that makes Grantee eligible for such credit, benefit, rebate, or incentive.

14.11. No Partnership. Nothing contained in this Agreement shall be construed to create an association, joint venture, trust or partnership covenant, obligation or liability on or with regard to any one or more Parties in this Agreement.

14.12. Waiver of Right to Trial by Jury. EACH OF THE PARTIES KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES THE RIGHT TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION BASED ON THIS AGREEMENT, OR ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT AND ANY AGREEMENT CONTEMPLATED TO BE EXECUTED IN CONJUNCTION HERewith, OR ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTIONS OF ANY PARTY HERETO. EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT OR HAS NOT BEEN WAIVED. THIS PROVISION IS A MATERIAL INDUCEMENT TO EACH OF THE PARTIES FOR ENTERING INTO THIS AGREEMENT.

14.13. Public Officials. Owner acknowledges that its receipt of monetary and other good and valuable consideration hereunder may represent a conflict of interest if Owner is a government employee or otherwise serves on a governmental entity with decision-making authority (a "Public

Official”) as to any rights Grantee may seek, or as to any obligations that may be imposed upon Grantee in order to develop and/or operate the Project (“Development Rights”), and Owner hereby agrees to (1) recuse him/herself from all such decisions related to Grantee’s Development Rights unless such recusal is prohibited by law or is not reasonably practicable considering the obligations of such Public Official’s position and (2) recuse him/herself from all such decisions related to Grantee’s Development Rights if such recusal is required by law. If Owner is not required pursuant to (1) or (2) above to recuse him/herself from a decision related to Grantee’s Development Rights, Owner shall, in advance of any vote or other official action on the Development Rights, disclose the existence of this Agreement (but not the financial terms therein) at an open meeting of the relevant governmental entity Owner serves on as a Public Official. Additionally, if Owner is a Public Official and any of Owner’s spouse, child or other dependent has a financial interest in the Project, Owner shall disclose such relationship (but not the financial terms thereof) at an open meeting of the relevant governmental entity Owner serves on as a Public Official, prior to participation in any decision related to Grantee’s Development Rights.

[Signatures on Following Page]

IN WITNESS WHEREOF, Owner and Grantee, acting through their duly authorized representatives, have executed this Agreement with the intent that it be effective as of the Effective Date, and certify that they have read, understand and agree to the terms and conditions of this Agreement.

OWNER:

The Village of Rantoul, Illinois
an Illinois Municipal Corporation

By: _____

Name: Mayor Charles Smith

Title: Village President

GRANTEE:

BOW Renewables, LLC
a Delaware limited liability company

By: _____

Name: _____

Title: _____

ACKNOWLEDGMENT OF OWNER

STATE OF ILLINOIS)
) SS.
COUNTY OF CHAMPAIGN)

Personally came before me this 8th day of March, 2022, Mayor Charles Smith who executed the foregoing instrument as Village President of the Village of Rantoul, and acknowledged the same.

(S E A L)

Name: Tana M. Ward
Notary Public, State of Illinois
My Commission Expires: 08/01/2024

ACKNOWLEDGMENT OF GRANTEE

STATE OF _____)
) SS.
COUNTY OF _____)

Personally came before me this ____ day of March, 2022, _____
who executed the foregoing instrument as Managing Partner for BOW Renewables LLC, and
acknowledged the same.

(S E A L)

Name: _____
Notary Public, State of _____
My Commission Expires: _____

EXHIBIT A

DESCRIPTION OF “PROPERTY”

County of Champaign, State of Illinois

PINs: 14-03-24-400-002, 14-03-24-400-003 – Aerial view as outlined in yellow

DESCRIPTION OF “LEASED AREA”

Aerial view of Leased Area as outlined in blue is preliminarily shown subject to adjustment by survey during Construction Period



EXHIBIT B
Payment Terms

In consideration for the rights provided to Grantee under the Agreement, Grantee agrees to make payments to Owner as follows:

1. Development Term Fees. Beginning on the Effective Date and ending upon the start of the Construction Term, Grantee shall pay Owner an annual fee of **THREE THOUSAND DOLLARS (\$3,000)** (the “**Development Term Fee**”). Payment of the Development Term Fee shall be made annually in advance with the first payment due on or before sixty (60) days following the Effective Date and each subsequent payment shall be due on or before each anniversary of the Effective Date, as applicable.

OR

1. Development Term Fees. On the Effective Date Grantee shall pay Owner a fee of **FIVE HUNDRED DOLLARS (\$500)**. Upon the expiration of the development term, unless terminated by Grantee or Owner, Grantee shall pay Owner a one-time Development Term Fee of **NINETEEN THOUSAND FIVE-HUNDRED DOLLARS (\$19,500.00)**.

2. Construction Term Fees. Upon commencement of the Construction Term, Grantee shall pay owner a fee of **TWO HUNDRED FIFTY** dollars per acre (**\$250/acre**) multiplied by the number of acres in the Leased Area as preliminarily shown on Exhibit A, subject to adjustment by survey. Payment of the Construction Term Fees shall be made with the payment due on or before sixty (60) days following the Commencement of Construction.

(a) Payment of Construction Fees. For payment of Construction Term Fee, Grantee shall receive a credit for any annual Development Term Fees prorated to the date of Commencement of Construction.

3. Extended Term Fees. Beginning on the Operations Date and ending on the the expiration or earlier termination of this Agreement, Grantee shall pay to Owner the below annual amounts (collectively “Extended Term Fees”). Notwithstanding the above, Owner acknowledges that Grantee may build the Project in phases and all of the Leased Area may not be included in the initial phase or subsequent phase(s).

(a) Extended Term Fees. Grantee shall pay to Owner a fee of **ONE THOUSAND FIVE HUNDRED DOLLARS (\$1,500)** multiplied by the number of acres of the Leased Area, as described on Exhibit A (the “Extended Term Fee”). Acreage shall be determined by a survey prepared by a surveyor licensed in the state in which the Property exists. During the Construction Term, Grantee shall have a licensed surveyor complete a survey of the Leased Area and calculate the total acreage of such Leased Area as of such date; and,

(b) Payment of Extended Term Fees. For the first payment of Extended Term Fees, Grantee shall receive a credit for any Construction Term Fees prorated to the Operations Date. The payment of the Extended Term Fee each calendar year shall be made in annual installments, the first annual payment shall be due on or before sixty (60) days following the Operations Date

and subsequent payments shall be due on each anniversary thereof. Owner shall have the right to receive, upon written request, a statement from Grantee showing the computational basis for Owner's payments.

(c) Inflation. Commencing 12 months after the Operations Date, such Extended Term Fees shall be adjusted upwards by the greater of (i) two percent (2%) per year on a compounded basis or (ii) by the percentage change, if any, in the CPI for the preceding available four quarters. "CPI" means the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) (1982-1984=100) as published by the Bureau of Labor Statistics.

3. Late Payment Penalty. If Grantee fails to make any payment to Owner required of it hereunder when due, interest shall accrue on the overdue amount, from the date of expiration of Grantee's cure period until the date paid, at a rate equal to the sum of: (i) two percent (2%) per annum; plus, (ii) the prime lending rate as from time to time may be published by The Wall Street Journal under the "Money Rates" section; provided, that in no event shall such total interest exceed the maximum rate permitted by law.

4. IRS Form W-9. Notwithstanding anything in this Agreement to the contrary, Grantee shall have no obligation to make any payment to Owner otherwise required under this Agreement until Owner has returned to Grantee a completed Internal Revenue Service Form W-9, such W-9 form to either (i) have been provided by Grantee to Owner prior to execution of this Agreement or (ii) be provided by Grantee to Owner promptly upon execution of this Agreement.

5. Payment Instructions. Unless otherwise indicated in the table below, all payments issued hereunder will be paid to Owner, and if Owner is comprised of more than one person or entity, such payments will be issued by a single check payable to all such persons or entities. If Owner elects to have payments made as set forth in the table below, Owner and each person or entity holding record title to the Property hereby acknowledges and agrees that all payments are legally permitted to be made as set forth in the table below and that no other party shall have any right to such payments or to contest the payments and allocations as set forth below. Each person receiving payment pursuant to the table below hereunder agrees to fully indemnify, defend and hold harmless Grantee against claims and liability by any third party in connection with its payments hereunder to the person/entities set forth herein.

EXHIBIT D
Form of Recording Memorandum

MEMORANDUM OF SOLAR LEASE AND EASEMENT AGREEMENT

After recording return to:

BOW Renewables, LLC
1900 N. Tamiami Trail
North Fort Myers, FL 33903

Parcel Identification Number(s): See Exhibit D-1

THIS SPACE FOR RECORDERS USE ONLY

MEMORANDUM OF SOLAR LEASE AND EASEMENT AGREEMENT

THIS MEMORANDUM OF SOLAR LEASE AND EASEMENT AGREEMENT (this "**Memorandum**"), is made, dated and effective as of March 8, 2022 (the "**Effective Date**"), between The Village Of Rantoul, Illinois, an Illinois Municipal Corporation (together with its successors and assigns, "**Owner**"), whose address is 333 South Tanner Street, Rantoul, IL 61866, and BOW RENEWABLES, LLC, a Delaware limited liability company (together with its transferees, successors and assigns, "**Grantee**"), whose address is 1900 N. Tamiami Trail, North Fort Myers, FL 33903, with regards to the following:

1. Owner and Grantee did enter into that certain SOLAR LEASE AND EASEMENT AGREEMENT dated March 8, 2022 (the "**Agreement**"), which affects the real property located in Champaign County, Illinois, as more particularly described in Exhibit A attached hereto (the "**Property**"). Capitalized terms used and not defined herein have the meaning given the same in the Agreement.

2. The Agreement grants, and Owner hereby grants, Grantee, among other things, (a) the exclusive right to develop and use the Leased Area, including, without limitation, for converting solar energy into electrical energy and collecting and transmitting the electrical energy so converted; (b) an exclusive easement to capture, use and convert the unobstructed solar flux over and across the Leased Area from all angles and from sunrise to sunset at the Leased Area during each day of the Term; and (c) an exclusive easement for electromagnetic, audio, visual, glare, electrical or radio interference attributable to the Solar Facilities or Site Activities. The Agreement contains, among other things, certain Owner and third party use and development restrictions on the Leased Area.

3. The Agreement shall be for an initial term of three (3) years, a construction term, a first extended term of thirty (30) years, a second extended term of five (5) years, and a third extended term of five (5) years if the terms and conditions of the Agreement are met.

4. This Memorandum does not supersede, modify, amend or otherwise change the terms, conditions or covenants of the Agreement, and Owner and Grantee executed and are recording this Memorandum for the purposes set forth herein and for providing constructive notice of the Agreement and Grantee's rights thereunder and hereunder. The terms, conditions and covenants of the Agreement are set forth at length in the Agreement and are incorporated herein by reference as though fully set forth herein. This Memorandum shall not, in any manner or form whatsoever, alter, modify or vary the terms, covenants and conditions of the Agreement.

5. This Memorandum shall also bind and benefit, as the case may be, the heirs, legal representatives, assigns and successors of the respective parties hereto, and all covenants, conditions and agreements contained herein shall be construed as covenants running with the land to the extent consistent with applicable law.

6. Owner shall have no ownership, lien, security or other interest in any Solar Facilities installed on the Property, or any profits derived therefrom, and Grantee may remove any or all Solar Facilities at any time.

7. This Memorandum may be executed in counterparts, each of which shall be deemed an original and all of which when taken together shall constitute one and the same document.

[signature page to follow]

IN WITNESS WHEREOF, the parties have executed this Memorandum to be effective as of the date first written above.

OWNER:

The Village Of Rantoul, Illinois,
an Illinois Municipal Corporation

By: _____

Name: Mayor Charles Smith

Title: Village Prsident

GRANTEE:

BOW Renewables, LLC,
a Delaware limited liability company

By: _____

Name: _____

Title: _____

ACKNOWLEDGMENT OF OWNER

STATE OF ILLINOIS)
) SS.
COUNTY OF CHAMPAIGN)

Personally came before me this 8th day of March, 2022, Mayor Charles Smith who executed the foregoing instrument as Village President of the Village of Rantoul, and acknowledged the same.

(S E A L)

Name: Tana M. Ward
Notary Public, State of Illinois
My Commission Expires: 08/01/2024

ACKNOWLEDGMENT OF GRANTEE

STATE OF _____)
) SS.
COUNTY OF _____)

Personally came before me this ____ day of March, 2022, _____
who executed the foregoing instrument as Managing Partner for BOW Renewables LLC, and
acknowledged the same.

(S E A L)

Name: _____
Notary Public, State of _____
My Commission Expires: _____

EXHIBIT D-1

TO MEMORANDUM OF SOLAR LEASE AND EASEMENT AGREEMENT

Description of the Property

County of Champaign, State of Illinois

Parcel Identification Number(s): _____
[to be added]

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: February 2022 Village Applicant Demographics Report	DEPARTMENT: Administration
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. HR Report - March 2022	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS:	
RECOMMENDED ACTION:	
DEPARTMENT HEAD APPROVAL Deborah Sage	VILLAGE ADMINISTRATOR Scott Eisenhauer

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position					
	Census Report 2016	Grounds Maintenance Worker Job ID 92287		Scoreboard Operator Job ID 92240	
Race		Number	Percentage	Number	Percentage
White	60.9%	5	56%	1	50%
African American	24.9%	2	22%	0	0%
Asian	2.3%	0	0%	0	0%
Native Hawaiian/Pacific Islander	0.1%	0	0%	0	0%
Hispanic/Latino	12.5%	2	22%	0	0%
American Indian	0.5%	0	0%	0	0%
Two or More Races	6.2%	0	0%	1	50%
Unknown	0.0%	0	0%	0	0%
Gender					
Male	47.9%	9	100%	2	100%
Female	52.1%	0	0%	0	0%
Total Applications					
		9		2	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Position					
		Adult Umpire Job ID 92231		Youth Umpire Job ID 92217	
Race		Number	Percentage	Number	Percentage
White		0	0%	0	0%
African American		0	0%	0	0%
Asian		0	0%	0	0%
Native Hawaiian/Pacific Islander		0	0%	0	0%
Hispanic/Latino		0	0%	1	50%
American Indian		0	0%	0	0%
Two or More Races		0	0%	1	50%
Unknown		0	0%	0	0%
Gender					
Male		0	0%	2	100%
Females		0	0%	0	0%
Total Applications					
		0		2	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position					
	Census Report 2016	Camp Counsler Job ID 92169		Youth Center Aide Job ID 92121	
Race		Number	Percentage	Number	Percentage
White	60.9%	1	100%	3	60%
African American	24.9%	0	0%	2	40%
Asian	2.3%	0	0%	0	0%
Native Hawaiian/Pacific Islander	0.1%	0	0%	0	0%
Hispanic/Latino	12.5%	0	0%	0	0%
American Indian	0.5%	0	0%	0	0%
Two or More Races	6.2%	0	0%	0	0%
Unknown	0.0%	0	0%	0	0%
Gender					
Male	47.9%	0	0%	2	40%
Female	52.1%	1	100%	3	60%
Total Applications					
		1		5	
Open / Filled					
		Seasonal Position		All Year Round - Part Time	
		Recreation Department		Recreation Department	

Position					
		Sports Site Supervisor Job ID 92096		Sports Complex Concession Worker Job ID 92074	
Race		Number	Percentage	Number	Percentage
White		1	100%	5	25%
African American		0	0%	4	20%
Asian		0	0%	1	5%
Native Hawaiian/Pacific Islander		0	0%	0	0%
Hispanic/Latino		0	0%	4	20%
American Indian		0	0%	0	0%
Two or More Races		0	0%	6	30%
Unknown		0	0%	0	0%
Gender					
Male		0	0%	7	35%
Females		1	100%	13	65%
Total Applications					
		1		20	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position					
	Census Report 2016	Sports Complex Maintenance Worker Job ID 92066		Sports Complex Scoreboard Operator Job ID 92063	
Race		Number	Percentage	Number	Percentage
White	60.9%	6	100%	9	100%
African American	24.9%	0	0%	0	0%
Asian	2.3%	0	0%	0	0%
Native Hawaiian/Pacific Islander	0.1%	0	0%	0	0%
Hispanic/Latino	12.5%	0	0%	0	0%
American Indian	0.5%	0	0%	0	0%
Two or More Races	6.2%	0	0%	0	0%
Unknown	0.0%	0	0%	0	0%
Gender					
Male	47.9%	6	100%	6	67%
Female	52.1%	0	0%	3	33%
Total Applications					
		6		9	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Position					
		Aquatic Pool Manager Job ID 91826		Aquatic Service Manager Job ID 91818	
Race		Number	Percentage	Number	Percentage
White		3	60%	1	100%
African American		0	0%	0	0%
Asian		0	0%	0	0%
Native Hawaiian/Pacific Islander		0	0%	0	0%
Hispanic/Latino		1	20%	0	0%
American Indian		0	0%	0	0%
Two or More Races		1	20%	0	0%
Unknown		0	0%	0	0%
Gender					
Male		3	60%	0	0%
Females		2	40%	1	100%
Total Applications					
		5		1	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position					
	Census Report 2016	Aquatic Center Swim Lesson Instructor Job ID 91808		Aquatic Center Concession Worker Job ID 91540	
Race		Number	Percentage	Number	Percentage
White	60.9%	1	100%	10	77%
African American	24.9%	0	0%	2	15%
Asian	2.3%	0	0%	0	0%
Native Hawaiian/Pacific Islander	0.1%	0	0%	0	0%
Hispanic/Latino	12.5%	0	0%	0	0%
American Indian	0.5%	0	0%	0	0%
Two or More Races	6.2%	0	0%	1	8%
Unknown	0.0%	0	0%	0	0%
Gender					
Male	47.9%	0	0%	5	38%
Female	52.1%	1	100%	8	62%
Total Applications					
		1		13	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Position					
		Forum Fitness Staff Attendant Job ID 90987		Aquatic Front Gate Attendant Job ID 90205	
Race		Number	Percentage	Number	Percentage
White		9	60%	5	56%
African American		3	20%	1	11%
Asian		0	0%	0	0%
Native Hawaiian/Pacific Islander		0	0%	0	0%
Hispanic/Latino		0	0%	2	22%
American Indian		0	0%	0	0%
Two or More Races		3	20%	1	11%
Unknown		0	0%	0	0%
Gender					
Male		3	20%	3	33%
Females		12	80%	6	67%
Total Applications					
		15		9	
Open / Filled					
		All Year Round - Part Time		Seasonal Position	
		Recreation Department		Recreation Department	

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position					
	Census Report 2016	Aquatic Group Fitness Instructor Job ID 90197		Lifeguard Job ID 90184	
Race		Number	Percentage	Number	Percentage
White	60.9%	0	0%	13	93%
African American	24.9%	0	0%	0	0%
Asian	2.3%	0	0%	0	0%
Native Hawaiian/Pacific Islander	0.1%	0	0%	0	0%
Hispanic/Latino	12.5%	0	0%	0	0%
American Indian	0.5%	0	0%	1	7%
Two or More Races	6.2%	0	0%	0	0%
Unknown	0.0%	0	0%	0	0%
Gender					
Male	47.9%	0	0%	5	36%
Female	52.1%	0	0%	9	64%
Total Applications					
		0		14	
Open / Filled					
		Seasonal Position		Seasonal Position	
		Recreation Department		Recreation Department	

Position					
		Gas Systems Technician Job ID 89642		Community Social Worker Job ID 89641	
Race		Number	Percentage	Number	Percentage
White		10	91%	1	33%
African American		0	0%	1	33%
Asian		0	0%	0	0%
Native Hawaiian/Pacific Islander		0	0%	0	0%
Hispanic/Latino		1	9%	1	33%
American Indian		0	0%	0	0%
Two or More Races		0	0%	0	0%
Unknown		0	0%	0	0%
Gender					
Male		11	100%	0	0%
Females		0	0%	3	100%
Total Applications					
		11		3	
Open / Filled					
		Full Time Position		Full Time Position	
		Public Works - Closed		Police Dept - Open	

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position					
	Census Report 2016	Public Works Director Job ID 80512		Firefighter Job ID 76624	
Race		Number	Percentage	Number	Percentage
White	60.9%	5	50%	25	64%
African American	24.9%	4	40%	8	20%
Asian	2.3%	0	0%	0	0%
Native Hawaiian/Pacific Islander	0.1%	0	0%	0	0%
Hispanic/Latino	12.5%	0	0%	1	3%
American Indian	0.5%	0	0%	0	0%
Two or More Races	6.2%	0	0%	4	10%
Unknown	0.0%	1	10%	1	3%
Gender					
Male	47.9%	9	90%	34	87%
Female	52.1%	1	10%	5	13%
Total Applications					
		10		39	
Open / Filled					
		Full Time Position		Volunteer	
		Public Works - Open		Fire Department - Open	

Position					
		Police Officer Job ID 69117		Group Fitness Instructor Job ID 87310	
Race		Number	Percentage	Number	Percentage
White		43	61%	2	50%
African American		14	20%	1	25%
Asian		1	1%	0	0%
Native Hawaiian/Pacific Islander		0	0%	0	0%
Hispanic/Latino		9	13%	0	0%
American Indian		1	1%	0	0%
Two or More Races		3	4%	1	25%
Unknown		0	0%	0	0%
Gender					
Male		52	73%	1	25%
Females		19	27%	3	75%
Total Applications					
		71		4	
Open / Filled					
		Full Time Position		All Year Round - Part Time	
		Police Department - Open		Recreation	

Open Positions for Village of Rantoul

February 23, 2021 to February 22, 2022

Position			
	Census Report 2016	Total Numbers	
Race		Number	Percentage
White	60.9%	159	63%
African American	24.9%	42	17%
Asian	2.3%	2	1%
Native Hawaiian/Pacific Islander	0.1%	0	0%
Hispanic/Latino	12.5%	22	9%
American Indian	0.5%	2	1%
Two or More Races	6.2%	22	9%
Unknown	0.0%	2	1%
Gender			
Male	47.9%	160	64%
Female	52.1%	91	36%
Total Applications			
		251	
Open / Filled			

Additional Information	
New Hires or Pending New Hires Marketing Coordinator Start Date: TBD African American, Female (1)	Events in February * Rantoul High School Upcoming Events * Village of Rantoul Job Fair
Waste Water Operator Start Date: 02/07/2022 White, Male (1)	
Inventory Specialist Start Date: 02/14/2022 African American, Male (1)	

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2695</u> , AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE V OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL MECHANICAL CODE	DEPARTMENT: Building Safety
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2695 Ordinance - Amending Chapter 10 Article V - Mechanical Code (2018 Ed)	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This is a request to amend Chapter 10 Building Code regulations in connection with adopting the 2018 International Building Codes. We, the "Village," adopted the 2006 International Building Codes in 2007, and we are recommending updating to the 2018 International Code version. The Codes contain numerous references to standards that are used to regulate materials and methods of construction. These code regulations expressed intent is to ensure minimum life safety standards during new and existing construction. Proposed Code changes are the 2018 International Mechanical Code.	
RECOMMENDED ACTION: Approve	
DEPARTMENT HEAD APPROVAL Scott Morgan	VILLAGE ADMINISTRATOR Scott Eisenhauer

ORDINANCE NO. 2695

**AN ORDINANCE
SUPPLEMENTING AND AMENDING ARTICLE V OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL MECHANICAL CODE**

**VILLAGE OF RANTOUL
CHAMPAIGN COUNTY, ILLINOIS**

CERTIFICATE OF PUBLICATION

Published in pamphlet form this 8th day of March, 2022, by authority of the President and Board of Trustees of the Village of Rantoul, Champaign County, Illinois.

Village Clerk

ORDINANCE NO. 2695

**AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE V OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL MECHANICAL CODE**

WHEREAS, the Illinois Municipal Code, 65 ILCS 5/1-3-2, provides that a municipality may adopt, by reference, certain regulations without setting forth those provisions in full; and,

WHEREAS, Article V of Chapter 10 of the Village Code provides for the adoption by reference of the International Mechanical Code, 2006 edition, published by the International Code Council; and,

WHEREAS, the International Code Council is made up of code enforcement officials, trade industry representatives, design professionals and other interested parties who participate in establishing and revising codes for adoption and use by municipalities; and,

WHEREAS, the International Code Council periodically updates those certain codes which they develop and publish to assist municipalities; and

WHEREAS, the International Code Council has published the 2018 edition of the International Mechanical Code; and,

WHEREAS, the Village Board desires to adopt, by reference, the updated and revised version of the International Mechanical Code as and for its Mechanical Code.

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF RANTOUL, CHAMPAIGN COUNTY, ILLINOIS, as follows:

Section 1. Amendment. That ARTICLE V, entitled “Mechanical Code”, of CHAPTER 10, entitled “Buildings and Building Regulation”, be and the same is hereby amended to provide as follows:

Sec. 10-172. Adoption by reference.

A certain document, at least one copy of which is and has remained on file for a period of not less than 30 days prior to the adoption of the ordinance from which this article is derived and shall be kept available for public use in the office of the village clerk, being marked and designated as the International Mechanical Code, 2018 edition, as published by the International Code Council, be and is hereby adopted as the mechanical code (the "mechanical code") of the Village, for regulating and governing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of mechanical systems as herein provided; providing for the issuance of permits and collection of fees thereof; and each and all of the regulations, provisions, conditions and terms of the mechanical code are hereby referred to, adopted and made a part hereof as if fully set out in this article, with such additions, amendments, insertions and deletions, if any, prescribed in section 10-173.

Sec. 10-173. Additions, amendments, insertions and deletions.

The following sections of the mechanical code are hereby revised as follows:

Section 101.1. Insert "Village of Rantoul, Champaign County, Illinois," for [Name of Jurisdiction].

Section 103. Delete Section 103 DEPARTMENT OF MECHANICAL INSPECTION in its entirety and replace with the following: The office of the village inspector, as that office is authorized, established and provided for in chapter 2, article III, division 9 of the Village Code, shall be the designated authority charged with the administration and enforcement of the mechanical code and all references in the mechanical code to the "code official" shall be deemed and construed to be references to the "village inspector."

Section 106.5.2. Add the following at the end of Section 106.5.2: The schedule of fees for mechanical work shall be in the amount established from time to time by the village board.

Section 106.5.3. Insert the following:

- a. fifty (50) percent for [Specify Percentage] in subsection 106.5.3(2)
- b. ten (10) percent for [Specify Percentage] in subsection 106.5.3(3)

Section 108.4. Delete Section 108.4 in its entirety and replace with the following: Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, or repair mechanical work in violation of the approved construction documents or directive of the code official or of a permit or certificate issued under the provisions of this code shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 108.5. Delete the last sentence of Section 108.5 in its entirety and replace with the following: Any person who shall continue any work on the system after having been served a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 109. Delete Section 109 Means of Appeal in its entirety and replace with the following: The Board of Code Appeals, as that board is created, established and provided for in chapter 2, article IV, division 3 of the Village Code, shall be the Board to which any person shall have the right to appeal a decision of the village inspector under this code, and all references in this code to the "board of appeals" or the "board" shall be deemed and construed to be references to the Board of Code Appeals.

Section 2. Effective Date. The provisions of this Ordinance shall, after its passage, approval and publication as required by law, become effective on June 1, 2022.

Section 3. Conflict. All ordinances or parts of ordinances which are in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby superseded.

Section 4. Publication. The Village Clerk is hereby authorized and directed to cause this Ordinance to be published in pamphlet form.

This Ordinance is hereby passed, the “ayes” and “nays” being called, by the concurrence of a majority of the members of the Corporate Authorities then holding office on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2696</u> , AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE VIII OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL FIRE CODE	DEPARTMENT: Building Safety
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2696 Ordinance - Amending Chapter 10 Article VIII - Fire Code (2018 Ed)	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This is a request to amend Chapter 10 Building Code regulations in connection with adopting the 2018 International Building Codes. We, the "Village," adopted the 2006 International Building Codes in 2007, and we are recommending updating to the 2018 International Code version. The Codes contain numerous references to standards that are used to regulate materials and methods of construction. These code regulations expressed intent is to ensure minimum life safety standards during new and existing construction. Proposed Code changes are the 2018 International Fire Code.	
RECOMMENDED ACTION: Approve	
DEPARTMENT HEAD APPROVAL Scott Morgan	VILLAGE ADMINISTRATOR Scott Eisenhower

ORDINANCE NO. 2696

**AN ORDINANCE
SUPPLEMENTING AND AMENDING ARTICLE VIII OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL FIRE CODE**

**VILLAGE OF RANTOUL
CHAMPAIGN COUNTY, ILLINOIS**

CERTIFICATE OF PUBLICATION

Published in pamphlet form this 8th day of March, 2022, by authority of the President and Board of Trustees of the Village of Rantoul, Champaign County, Illinois.

Village Clerk

ORDINANCE NO. 2696

**AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE VIII OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL FIRE CODE**

WHEREAS, the Illinois Municipal Code, 65 ILCS 5/1-3-2, provides that a municipality may adopt, by reference, certain regulations without setting forth those provisions in full; and,

WHEREAS, Article VIII of Chapter 10 of the Village Code provides for the adoption by reference of the International Fire Code, 2006 edition, published by the International Code Council; and,

WHEREAS, the International Code Council is made up of code enforcement officials, trade industry representatives, design professionals and other interested parties who participate in establishing and revising codes for adoption and use by municipalities; and,

WHEREAS, the International Code Council periodically updates those certain codes which they develop and publish to assist municipalities; and

WHEREAS, the International Code Council has published the 2018 edition of the International Fire Code; and,

WHEREAS, the Village Board desires to adopt, by reference, the updated and revised version of the International Fire Code as and for its Fire Code.

**BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE
VILLAGE OF RANTOUL, CHAMPAIGN COUNTY, ILLINOIS**, as follows:

Section 1. Amendment. That ARTICLE VIII, entitled “Fire Code”, of CHAPTER 10, entitled “Buildings and Building Regulation”, be and the same is hereby amended to provide as follows:

Sec. 10-266. Adoption by reference.

A certain document, at least one copy of which is and has remained on file for a period of not less than 30 days prior to the adoption of the ordinance from which this article is derived and shall be kept available for public use in the office of the village clerk, being marked and designated as the International Fire Code, 2018 edition, including appendixes C and D, as published by the International Code Council, be and is hereby adopted as the Fire Code (the "Fire Code") of the Village, for regulating and governing the safeguarding of life and property from fire and explosion hazards arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the occupancy of buildings and premises as herein provided; providing for the issuance of permits and collection of fees thereof; and each and all of the regulations, provisions, conditions and terms of the Fire Code are hereby referred to, adopted and made a part hereof as if fully set out in this article, with such additions, insertions, deletions and changes, if any, prescribed in section 10-267.

Sec. 10-267. Additions, amendments, insertions and deletions.

The following sections of the Fire Code are hereby revised as follows:

Section 101.1. Insert "Village of Rantoul, Champaign County, Illinois" for [Name of Jurisdiction].

Section 103. Delete Section 103 DEPARTMENT OF FIRE PREVENTION in its entirety and replace with the following: The office of the Village Inspector, as that office is authorized, established and provided for in Chapter 2, Article III, Division 11 of the Village Code, shall be the designated authority charged with the administration and enforcement of the Fire Code and all references in the Fire Code to the "fire code official" shall be deemed and construed to be references to the "Village Inspector".

Section 105.6. Delete Section 105.6 Required operational permits in its entirety.

Section 109. Delete Section 109 BOARD OF APPEALS in its entirety and replace with the following: The Board of Code Appeals, as that board is created, established and provided for in Chapter 2, Article IV, Division 3 of the Village Code, shall be the board to which any person shall have the right to appeal a decision of the Village Inspector under this code, and all references in this code to the "board of appeals" or the "board" shall be deemed and construed to be references to the Board of Code Appeals.

Section 110.4. Delete Section 110.4 Violations penalties in its entirety and replace with the following: Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, or repair mechanical work in violation of the approved construction documents or directive of the code official or of a permit or certificate issued under the provisions of this code shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 112.4. Delete Section 112.4 Failure to comply in its entirety and replace with the following: Any person who shall continue any work on the system after having been served a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 307. Add the following new Section 307.1.2: Permitted Open Burning. Subject to the provisions of Sections 307.4 and 307.5, the "open burning" of leaves between the hours of 11:00 a.m. to 4:00 p.m. shall be permitted on any Saturday during the months of April, May, October and November only, provided such "open burning" of leaves is located not less than three (3) feet from any public right-of-way.

Section 307.2. Delete Section 307.2 Permit Required in its entirety and replace with the following: A permit shall be obtained from the fire code official prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention or control of disease or pests, or a bonfire. Application for such approval shall only be presented by and permits issued to the owner of the land upon which the fire is to be kindled.

Section 307.4.2. Add the following to the end of Section 307.4.2 Recreational fires: An outdoor fire burning fuel for pleasure, religious, ceremonial, cooking, warmth or similar purposes where the fuel being burned is contained in an outdoor fireplace, barbeque grill, barbeque pit, fire bowl, fire pit, campfire ring or similar device and has a total fuel area of 3 feet or less in diameter and 2 feet or less in height shall be permitted, provided that no "Municipal Waste" or "Landscape Waste" (as such terms are defined in Section 28-19 of the Village Code, as supplemented and amended) other than logs and untreated lumber shall be burned in such cases.

Section 506.1. Add the following to the end of Section 506.1 Key Lock Box Systems: Notwithstanding anything herein to the contrary, the following buildings or structures shall be equipped with a key lock box system at or near the main entrance of any such building or structure or at such other location on any such building or structure as may be approved by the Fire Chief of the Village Fire Department:

1. Any commercial or industrial building or structure protected by an automatic alarm system or an automatic suppression system;
2. Any multi-family residential building or structure that has restricted access through locked doors and have a common corridor or hallway for access to any dwelling units;
3. Any governmental building or structure;
4. Any nursing home facility; and
5. Any other commercial or industrial building that is secured in a manner that restricts access during an emergency.

Section 506. Add the following new Section 506.3: Section 506.3 Key Lock Box System Requirements. The key lock box system required by Section 506.1 shall consist of a lock box, vault or other similar device which is approved by the Fire Chief of the Village Fire Department and which contains a key to each of the following areas:

1. Any locked point of access in the exterior of any such building or structure;
2. Any locked point of access to any common area, such as corridor, hallway or utility room contained within any such building or structure;
3. Any locked mechanical room;
4. Any locked electrical room; and
5. Any other area that may be required by the Fire Chief of the Village Fire Department.

Section 506. Add the following new Section 506.4: Section 506.4 Rules and Regulations. The Fire Chief of the Village Fire Department may establish rules and regulations for the placement and maintenance of a key lock box system within the Village, including any approved type of any such key lock box system. Any such rules and regulations or amendments thereto proposed by the Fire Chief of the Village Fire Department shall be submitted to the President and Board of Trustees and Administrative Officer of the Village and shall become effective fourteen (14) days after the date of any such submission.

Section 1103.5.3. Delete the last sentence of Section 1103.5.3 in its entirety and replace with the following: The automatic sprinkler system shall be installed in a reasonable time period as directed by fire code official.

Section 5704.2.9.6.1. Add the following to the end of Section 5704.2.9.6.1 Locations where above-ground tanks are prohibited: The geographic limits in which the storage of Class I and Class II liquids in above-ground tanks outside of buildings is prohibited is hereby specified to be any area other than an area zoned for industrial, commercial or airfield use under the Zoning Ordinance of the Village, provided, however, that if located in an area zoned for commercial use, including any use permitted in the C-4 Commercial/Industrial District, the capacity of any such above-ground tank shall be limited to a maximum capacity of 3,000 water gallons unless any such above-ground tank or tanks are used exclusively for the storage of a Class II liquid to provide fuel for back-up power generation, in which event a separate above-ground tank with maximum capacity of up to 3,000-water gallons shall be permitted for each back-up generator up to a maximum of six (6) generator(s).

Section 5706.2.4.4. Add the following to the end of Section 5706.2.4.4 Locations where above-ground tanks are prohibited: The geographic limits in which the storage of Class I and Class II liquids in above-ground tanks is prohibited is hereby specified to be any area zoned for residential use under the Zoning Ordinance of the Village.

Section 5806.2. Add the following to the end of Section 5806.2 Location: The geographic limits in which the storage of flammable cryogenic fluids in stationary containers is prohibited is hereby specified to be any area other than an area zoned for industrial use under the Zoning Ordinance of the Village.

Section 6104.2. Add the following to the end of Section 6104.2 Maximum capacity within established limits: The geographic limits in which the storage of liquefied petroleum gas is restricted for the protection of heavily populated or congested areas is hereby specified to be any area zoned for residential or commercial use under the Zoning Ordinance of the Village.

Section 2. Effective Date. The provisions of this Ordinance shall, after its passage, approval and publication as required by law, become effective on June 1, 2022.

Section 3. Conflict. All ordinances or parts of ordinances which are in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby superseded.

Section 4. Publication. The Village Clerk is hereby authorized and directed to cause this Ordinance to be published in pamphlet form.

This Ordinance is hereby passed, the “ayes” and “nays” being called, by the concurrence of a majority of the members of the Corporate Authorities then holding office on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2697</u> , AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE IX OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL FUEL GAS CODE	DEPARTMENT: Building Safety
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2697 Ordinance - Amending Chapter 10 Article IX - Fuel Gas Code (2018 Ed)	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This is a request to amend Chapter 10 Building Code regulations in connection with adopting the 2018 International Building Codes. We, the "Village," adopted the 2006 International Building Codes in 2007, and we are recommending updating to the 2018 International Code version. The Codes contain numerous references to standards that are used to regulate materials and methods of construction. These code regulations expressed intent is to ensure minimum life safety standards during new and existing construction. Proposed Code changes are the 2018 International Fuel Gas Code.	
RECOMMENDED ACTION: Approve	
DEPARTMENT HEAD APPROVAL Scott Morgan	VILLAGE ADMINISTRATOR Scott Eisenhower

ORDINANCE NO. 2697

**AN ORDINANCE
SUPPLEMENTING AND AMENDING ARTICLE IX OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL FUEL GAS CODE**

**VILLAGE OF RANTOUL
CHAMPAIGN COUNTY, ILLINOIS**

CERTIFICATE OF PUBLICATION

Published in pamphlet form this 8th day of March, 2022, by authority of the President and Board of Trustees of the Village of Rantoul, Champaign County, Illinois.

Village Clerk

ORDINANCE NO. 2697

**AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE IX OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL FUEL GAS CODE**

WHEREAS, the Illinois Municipal Code, 65 ILCS 5/1-3-2, provides that a municipality may adopt, by reference, certain regulations without setting forth those provisions in full; and,

WHEREAS, Article IX of Chapter 10 of the Village Code provides for the adoption by reference of the International Fuel Gas Code, 2006 edition, published by the International Code Council; and,

WHEREAS, the International Code Council is made up of code enforcement officials, trade industry representatives, design professionals and other interested parties who participate in establishing and revising codes for adoption and use by municipalities; and,

WHEREAS, the International Code Council periodically updates those certain codes which they develop and publish to assist municipalities; and

WHEREAS, the International Code Council has published the 2018 edition of the International Fuel Gas Code; and,

WHEREAS, the Village Board desires to adopt, by reference, the updated and revised version of the International Fuel Gas Code as and for its Fuel Gas Code.

**BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE
VILLAGE OF RANTOUL, CHAMPAIGN COUNTY, ILLINOIS**, as follows:

Section 1. Amendment. That ARTICLE IX, entitled “Fuel Gas Code”, of CHAPTER 10, entitled “Buildings and Building Regulation”, be and the same is hereby amended to provide as follows:

Sec. 10-300. Adoption by reference.

A certain document, at least one copy of which is and has remained on file for a period of not less than 30 days prior to the adoption of the ordinance from which this article is derived and shall be kept available for public use in the office of the village clerk, being marked and designated as the International Fuel Gas Code, 2018 edition, including appendixes A, B, C and D, as published by the International Code Council, be and is hereby adopted as the fuel gas code (the "fuel gas code") of the Village, for regulating and governing fuel gas systems and gas-fired appliances as herein provided; providing for the issuance of permits and collection of fees thereof; and each and all of the regulations, provisions, conditions and terms of the fuel gas code are hereby referred to, adopted and made a part hereof as if fully set out in this article, with such additions, amendments, insertions and deletions, if any, prescribed in section 10-301.

Sec. 10-301. - Additions, amendments, insertions and deletions.

The following sections of the fuel gas code are hereby revised as follows:

Section 101.1. Insert "Village of Rantoul, Champaign County, Illinois," for [Name of Jurisdiction].

Section 103. Delete Section 103 Department of Inspection in its entirety and replace with the following: The office of the village inspector, as that office is authorized, established and provided for in chapter 2, article IV, division 3 of the Village Code, shall be the designated authority charged with the administration and enforcement of this code and all references in this code to the "building official" shall be deemed and construed to be references to the "village inspector."

Section 106.6.2. Delete Section 106.6.2 in its entirety and replace with the following: The schedule of fees for work shall be in the amount established from time to time by the Village Board.

Section 106.6.3. Insert the following:

- a. Fifty (50) percent for [Specify Percentage] in subsection 106.6.3(2).
- b. Ten (10) percent for [Specify Percentage] in subsection 106.6.3(3).

Section 108.4. Delete Section 108.4 in its entirety and replace with the following: Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, or repair work in violation of the approved construction documents or directive of the code official or of a permit or certificate issued under the provisions of this code shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 108.5. Delete the last sentence of Section 108.5 in its entirety and replace with the following: Any person who shall continue any work on the system after having been served a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 109. Delete Section 109 Board of Appeals in its entirety and replace with the following: The Board of Code Appeals, as that board is created, established and provided for in chapter 2, article IV, division 3 of the Village Code, shall be the board to which any person shall have the right to appeal a decision of the village inspector under this code, and all references in this code to the "board of appeals" or the "board" shall be deemed and construed to be references to the Board of Code Appeals.

Section 2. Effective Date. The provisions of this Ordinance shall, after its passage, approval and publication as required by law, become effective on June 1, 2022.

Section 3. Conflict. All ordinances or parts of ordinances which are in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby superseded.

Section 4. Publication. The Village Clerk is hereby authorized and directed to cause this Ordinance to be published in pamphlet form.

This Ordinance is hereby passed, the “ayes” and “nays” being called, by the concurrence of a majority of the members of the Corporate Authorities then holding office on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2698</u> , AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE X OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL ENERGY CONSERVATION CODE	DEPARTMENT: Building Safety
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2698 Ordinance - Amending Chapter 10 Article X - Energy Conservation Code (2018 Ed)	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This is a request to amend Chapter 10 Building Code regulations in connection with adopting the 2018 International Building Codes. We, the "Village," adopted the 2006 International Building Codes in 2007, and we are recommending updating to the 2018 International Code version. The Codes contain numerous references to standards that are used to regulate materials and methods of construction. These code regulations expressed intent is to ensure minimum life safety standards during new and existing construction. Proposed Code changes are the 2018 International Energy Conservation Code.	
RECOMMENDED ACTION: Approve	
DEPARTMENT HEAD APPROVAL Scott Morgan	VILLAGE ADMINISTRATOR Scott Eisenhower

ORDINANCE NO. 2698

**AN ORDINANCE
SUPPLEMENTING AND AMENDING ARTICLE X OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF
THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE**

**VILLAGE OF RANTOUL
CHAMPAIGN COUNTY, ILLINOIS**

CERTIFICATE OF PUBLICATION

Published in pamphlet form this 8th day of March, 2022, by authority of the President and Board of Trustees of the Village of Rantoul, Champaign County, Illinois.

Village Clerk

ORDINANCE NO. 2698

AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE X OF CHAPTER 10 “BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE

WHEREAS, the Illinois Municipal Code, 65 ILCS 5/1-3-2, provides that a municipality may adopt, by reference, certain regulations without setting forth those provisions in full; and,

WHEREAS, Article X of Chapter 10 of the Village Code provides for the adoption by reference of the International Energy Conservation Code, 2006 edition, published by the International Code Council; and,

WHEREAS, the International Code Council is made up of code enforcement officials, trade industry representatives, design professionals and other interested parties who participate in establishing and revising codes for adoption and use by municipalities; and,

WHEREAS, the International Code Council periodically updates those certain codes which they develop and publish to assist municipalities; and

WHEREAS, the International Code Council has published the 2018 edition of the International Energy Conservation Code; and,

WHEREAS, the Village Board desires to adopt, by reference, the updated and revised version of the International Energy Conservation Code as and for its Energy Conservation Code.

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF RANTOUL, CHAMPAIGN COUNTY, ILLINOIS, as follows:

Section 1. Amendment. That ARTICLE X, entitled “Energy Conservation Code”, of CHAPTER 10, entitled “Buildings and Building Regulation”, be and the same is hereby amended to provide as follows:

Sec. 10-323. Adoption by reference.

A certain document, at least one copy of which is and has remained on file for a period of not less than 30 days prior to the adoption of the ordinance from which this article is derived and shall be kept available for public use in the office of the village clerk, being marked and designated as the International Energy Conservation Code, 2018 edition, as published by the International Code Council, be and is hereby adopted as the energy conservation code (the "energy conservation code") of the Village, for regulating and governing energy efficient building envelopes and installation of energy efficient mechanical, lighting and power systems as herein provided; providing for the issuance of permits and collection of fees thereof; and each and all of the regulations, provisions, conditions and terms of the energy conservation code are hereby referred to, adopted and made a part hereof as if fully set out in this article, with such additions, amendments, insertions and deletions, if any, prescribed in section 10-324.

Sec. 10-324. Additions, amendments, insertions and deletions.

The following sections of the energy conservation code are hereby revised as follows:

Section 101.1. Insert "Village of Rantoul, Champaign County, Illinois," for [Name of Jurisdiction].

Section 202. Delete the definition of "Code Official" in Section 202 and replace it with the following: "Code Official" The office of the village inspector, as that office is authorized, established and provided for in [Chapter 2](#), Article III, [Division 9](#) of the village Code, shall be the designated authority charged with the administration and enforcement of this code and all references in this code to the "Code Official" shall be deemed and construed to be references to the "village inspector."

Section 108.4. Delete Section 108.4 in its entirety and replace with the following: Any person who shall continue any work after having been served a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for the penalties as specified in section 1-23 of the Village Code.

Section 109. Delete Section 109 Board of Appeals in its entirety and replace with the following: The Board of Code Appeals, as that board is created, established and provided for in chapter 2, article IV, division 3 of the Village Code, shall be the board to which any person shall have the right to appeal a decision of the village inspector under this code, and all references in this code to the "board of appeals" or the "board" shall be deemed and construed to be references to the Board of Code Appeals.

Section 2. Effective Date. The provisions of this Ordinance shall, after its passage, approval and publication as required by law, become effective on June 1, 2022.

Section 3. Conflict. All ordinances or parts of ordinances which are in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby superseded.

Section 4. Publication. The Village Clerk is hereby authorized and directed to cause this Ordinance to be published in pamphlet form.

This Ordinance is hereby passed, the "ayes" and "nays" being called, by the concurrence of a majority of the members of the Corporate Authorities then holding office on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2699</u> , AN ORDINANCE SUPPLEMENTING AND AMENDING ARTICLE XI OF CHAPTER TEN "BUILDINGS AND BUILDING REGULATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH ADOPTION OF 2018 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE	DEPARTMENT: Building Safety
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2699 Ordinance - Amending Chapter 10 Article XI - Wildland Urban Interface Code	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This is a request to amend Chapter 10 Building Code regulations in connection with adopting the 2018 International Building Codes. We, the "Village," adopted the 2006 International Building Codes in 2007, and we are recommending updating to the 2018 International Code version. The Codes contain numerous references to standards that are used to regulate materials and methods of construction. These code regulations expressed intent is to ensure minimum life safety standards during new and existing construction. Proposed Code changes are the 2018 International Wildland-Urban Interface Code.	
RECOMMENDED ACTION: Approve	
DEPARTMENT HEAD APPROVAL Scott Morgan	VILLAGE ADMINISTRATOR Scott Eisenhower

ORDINANCE NO. 2699

**AN ORDINANCE
AMENDING ARTICLE XI OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH
THE INTERNATIONAL WILDLAND-URBAN INTERFACE CODE**

**VILLAGE OF RANTOUL
CHAMPAIGN COUNTY, ILLINOIS**

CERTIFICATE OF PUBLICATION

Published in pamphlet form this 8th day of March, 2022, by authority of the President and Board of Trustees of the Village of Rantoul, Champaign County, Illinois.

Village Clerk

ORDINANCE NO. 2699

**AN ORDINANCE AMENDING ARTICLE XI OF CHAPTER 10
“BUILDINGS AND BUILDING REGULATION” OF THE RANTOUL CODE,
AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH
THE INTERNATIONAL WILDLAND-URBAN INTERFACE CODE**

WHEREAS, Article XI of Chapter 10 of the Village Code provides for the adoption by reference of the International Wildland-Urban Interface Code, 2006 edition, published by the International Code Council; and,

WHEREAS, such code is particularly necessary in areas where the likelihood of wildfires exist that will impact communities; and,

WHEREAS, the Village of Rantoul is not situated in such an area that the Wildland-Urban Interface Code would provide the benefits associated with the implementation of such code; and

WHEREAS, the Village Board desires to eliminate the adoption and use of the International Wildland-Urban Interface code within the Village.

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF RANTOUL, CHAMPAIGN COUNTY, ILLINOIS, as follows:

Section 1. Amendment. That ARTICLE XI, entitled “Wildland-Urban Interface Code,” of CHAPTER 10, entitled “Buildings and Building Regulation,” be and the same is hereby amended to provide as follows:

ARTICLE XI. - RESERVED

Sec. 10-354. - Reserved

Sec. 10-355. - Reserved

Sec. 10-356. - Reserved

Section 2. Effective Date. The provisions of this Ordinance shall become effective upon its passage, approval and publication as required by law.

Section 3. Conflict. All ordinances or parts of ordinances which are in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby superseded.

Section 4. Publication. The Village Clerk is hereby authorized and directed to cause this Ordinance to be published in pamphlet form.

This Ordinance is hereby passed, the “ayes” and “nays” being called, by the concurrence of a majority of the members of the Corporate Authorities then holding office on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Approve <u>Ordinance No. 2700</u> , AN ORDINANCE AMENDING CHAPTER 42 "VEGETATION" OF THE RANTOUL CODE, AS SUPPLEMENTED AND AMENDED, IN CONNECTION WITH THE URBAN FORESTRY MANAGEMENT PLAN	DEPARTMENT: Planning and Zoning
DATE: March 1, 2022	AMOUNT:
ATTACHMENTS: 1. 03-22-2700 Ordinance - Adopting Tree Preservation 2. Rantoul_Exec_Summary_10_19_21	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: In early 2021, the Village was awarded a grant through the Morton Arboretum to complete a tree inventory and a tree management plan for the Village. This inventory work commenced over the summer of 2021, with a comprehensive inventory of all of the Village managed trees within the Village. The inventory was of all trees on public property (along streets in the right of way as well as on Village-owned property, including in the Village parks). This inventory resulted in a total count of 3,162 trees. The inventory collected information on tree locations, species, size, age, condition, and recommendations. Once the tree inventory was completed, a tree management plan was put together. The tree management plan establishes short and long term goals for our urban forest. The tree management plan also identified strategic partnerships, and the personnel to assist in managing the urban forest. The tree management plan then analyzes the inventory to give an assessment of Rantoul's current urban forest. Then, the plan made recommendations for the future of the urban forest, including providing specifications for planting and removals. This included tree removals, tree plantings, tree pruning, and other general maintenance needs, and it identified projected costs and budgets to grow and maintain the Village's urban forest. The management plan would include establishing goals for the community's public trees; providing specifications for plantings and removals; prioritizing planting locations; and provide education and outreach ideas for residents.	

Finally, a proposed Tree Preservation Ordinance was put together to provide the regulations to make the goals and recommendations of the urban forest management plan a reality. The Ordinance references the Urban Forest Management Plan, and it provides the specific requirements for preserving, caring for, and protecting our urban forest, while also giving guidelines for planting of new trees, and removal and replacement of existing trees. The Ordinance also defines and addresses nuisance trees and infestations, while also providing compliance and enforcement provisions.

RECOMMENDED ACTION: Board approval of adoption of the Rantoul Urban Forestry Management Plan as presented, and approval of an Ordinance establishing regulations for tree preservation.

DEPARTMENT HEAD APPROVAL
Chris Milliken

VILLAGE ADMINISTRATOR
Scott Eisenhower

ORDINANCE NO. 2700

**AN ORDINANCE
AMENDING CHAPTER 42 OF THE RANTOUL CODE PERTAINING TO
“VEGETATION”**

**VILLAGE OF RANTOUL
CHAMPAIGN COUNTY, ILLINOIS**

CERTIFICATE OF PUBLICATION

Published in pamphlet form this 8th day of March, 2022, by authority of the President and Board of Trustees of the Village of Rantoul, Champaign County, Illinois.

Village Clerk

ORDINANCE NO. 2700

**AN ORDINANCE
AMENDING CHAPTER 42 OF THE RANTOUL CODE PERTAINING TO
“VEGETATION”**

**BE IT ORDAINED BY THE PRESIDENT AND TH BOARD OF TRUSTEES OF
THE VILLAGE OF RANTOUL, ILLINOIS,** as follows:

Section 1. Adoption. That Chapter 42, entitled “Vegetation,” of the Rantoul Code, as supplemented and amended, be and the same is hereby supplemented and amended by striking and deleting Chapter 42 in its entirety and providing for new Chapter 42 to be entitled, “Trees and Tree Preservation” as set forth in the title, headings, and text thereof as attached hereto and hereby incorporated herein by reference thereto.

Section 2. Effective Date. The provisions of this Ordinance shall become effective following its passage, approval, and publication as required by law.

Section 3. Conflict. All ordinances or parts of ordinances which are in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby repealed.

Section 4. Publication. The Village Clerk is hereby authorized and directed to cause this Ordinance to be published in pamphlet form.

This Ordinance is hereby passed, the “ayes” and “nays” being called, by the concurrence of a majority of the members of the Trustees of the Village then holding office at a regular meeting on the date set forth below.

PASSED this 8th day of March, 2022.

Village Clerk

APPROVED this 8th day of March, 2022.

Village President

CHAPTER 42

TREES AND TREE PRESERVATION

42.1	Purpose
42.2	Definitions
42.3	Preservation
42.4	Planting
42.5	Tree Care
42.6	Tree Protection
42.7	Tree Removal
42.8	Tree Replacement
42.9	Significant Removals
42.10	Nuisance Trees
42.11	Invasive Species Control
42.12	Tree Commission
42.13	Tree Permit Procedure and Issuance
42.14	Compliance and Enforcement
42.15	Appeals
42.16	Fees
42.17	Penalties

42.1 Purpose.

This code is structured to preserve, protect and enhance the portion of the urban forest that is located on public land. The complete urban forest is comprised of trees across all land uses and ownership on public and private land. This Section regulates public property trees but recognizes that trees on private property are part of the collective community resource.

The purpose of this ordinance is to recognize the services and function that trees provide as a collective asset to the entire community and to state the goals of the Village of Rantoul with respect to the protection, preservation, care and planting of trees on public lands.

Specific goals are to:

- A. Protect, preserve and enhance the quality of life and general welfare of the Village, its residents and its property owners; and conserve and enhance the Village's natural, physical and aesthetic environment.
- B. Preserve, protect and enhance the urban forest to ensure that trees are properly planted and maintained within the Village of Rantoul so that trees can protect, enhance and preserve the quality of life for people within the Village.
- C. Recognize that trees are an integral part of the infrastructure of the Village and as such should be preserved, protected and cared for as other critical Village infrastructure.

- a. Trees absorb pollution from the air;
 - b. Trees absorb and sequester carbon dioxide;
 - c. Trees absorb and filter pollution from stormwater run-off;
 - d. Trees produce oxygen;
 - e. Trees reduce flooding;
 - f. Trees stabilize soils and reduce erosion;
 - g. Trees cool the surrounding area helping to reduce impacts due to heat islands;
 - h. Trees reduce energy consumption by shielding structures from harsh winds and sun;
 - i. Trees provide a buffer and screen against noise, light and pollution;
 - j. Trees improve property values;
 - k. Trees improve commercial district buyer traffic and purchasing;
 - l. Areas with trees have lower crime rates;
 - m. Areas with trees have higher levels of community interaction;
 - n. Trees provide important habitat for birds and other wildlife; and
 - o. Trees protect and enhance our quality of life.
- D. Trees provide the Village collective benefits that extend beyond property boundaries throughout the entire Village.
- E. Recognize that larger trees provide larger benefits. When a large tree is removed and replaced with a smaller tree the benefits and services are reduced.
- F. Recognize that some trees may have a condition that constitutes a threat, danger or nuisance to the public or property within the Village or may be dangerous to the health of other trees and vegetation in the Village.

42.2 Definitions.

Acceptable and Unacceptable Tree Species List: A listing of tree species, identified in the Village Urban Forest Management Plan.

Applicant: An owner of a lot, parcel or tract of land for which an application has been filed for a permit, subdivision, or any activity requiring the issuance of a permit. A contractor is an agent, acting on behalf of the Applicant – the landowner.

Arborist: Any individual experienced in the profession of forestry or a related field and is licensed or certified in forestry by an accredited forestry industry body, e.g. International Society of Arboriculture.

Buckthorn: An undesirable exotic invasive ornamental shrub introduced to North America. This species inhabits woodlands and savannas where it dominates the landscape prohibiting the development of native trees and plants. There are six species of buckthorn listed in the Illinois Exotic Weed Act, which prohibits the sale, distribution or planting of this species, *Rhamnus cathartica*, *davurica*, *frangula*, *argula*, *utilis*, and *japonica*.

Building Activity Area: The portion of a property within which development activity, including grading, excavation, storage of materials, construction access and construction of both main buildings and unattached structures.

Canopy: The upper portion of a tree sometimes called the crown. This section of the tree usually contains branches and leaves.

Cutting: Felling or removal of a tree, or any procedure that results in the death or substantial destruction of a tree.

Damage: Impact or loss of function to any tree including but not limited to: removal, root compaction, root removal, girdling, soil contamination, topping, pruning more than 20% of the trees, canopy removal, bark removal, poisoning and or/ actions resulting in the decline or death of a tree.

Development: Any proposed change in the use or character of land, including, but not limited to the replacement of any structure or site improvements, e.g. irrigation installation, driveway replacement, installation of a retaining wall among others. When appropriate to the context, development may refer to the receipt or necessity of any building, tree or site work permit.

Diameter at Breast Height: The diameter of the trunk of the tree measured in inches at a point 4.5 feet above ground line. This forestry standard measurement is used for established and mature trees and is referred to as "DBH". All reference to diameter size shall be to the DBH.

Forest Management Plan: A detailed plan developed and approved by the Village under the direction of a certified arborist or forester which protects this valuable infrastructure and outlines thoughtful strategies for tree planting, selection, care and preservation for the Village and complies with recognized national standards.

Forester: An individual trained and experienced in the profession of forestry who has a forestry degree from an institution of advanced education.

Infrastructure: The basic underlying framework or features that provide collective services, including but not limited to roads, waterlines, storm sewers, bioswales, and trees.

Invasive Species: An introduced or exotic species that significantly modifies or disrupts the ecosystem in which it colonizes (e.g. buckthorn).

Legacy Tree: A Legacy Tree is a tree identified on the Legacy Tree list and which has been recorded as such by the Village.

Nuisance Trees: Nuisance trees are trees that may provide potential impacts to other trees, people or structures. This would include, but not be limited to, diseased, infested, structurally unsound trees or known invasive species.

Parcel: A single parcel shall mean any lot of record, zoning lot or any grouping of adjacent lots under single ownership, serving a principal structure or use.

Property Owner: An individual or organization who owns property located within the corporate limits of the Village.

Regulated Articles: Any insects at any living stage of development, any quarantined materials such as wood products including, but not limited to chips, limbs, lumber, firewood, contaminated soils, or any other product or means of conveyance which may be determined by Federal or State departments of agriculture to pose a risk of spread of any infestation or infection.

Significant Tree Removal: Removal of a Legacy Tree or grouping/stand of trees.

Simple Tree Removal: Removal of a tree without other associated site impacts or other site improvements.

Site: That parcel of land for which a permit for landscaping or tree removal is sought.

Tree: Any self-supporting woody plant, together with its root system, trunk and canopy; growing upon the earth usually with one trunk, or a multi-stemmed trunk system, supporting a definitely formed crown.

Tree Bank: A bank account established to receive and hold deposits for trees which were damaged and/or removed. These funds, if not returned to the Applicant, may be used to purchase and care for trees throughout the Village.

Tree Permit: A written authorization from the Village authorizing the applicant to conduct work which may or may not impact a tree.

Tree Preservation Plan: A document required by a permit which identifies, by common name and/or scientific name, certain species of trees of a specified DBH within a particular area. The plan shall list all existing and proposed trees and shall specifically state how each tree is proposed to be destroyed, relocated, replaced, preserved at its present location, introduced into the site from an off-site source, and whether the tree is to receive remediated actions due to construction impacts, e.g. root pruning. The Village may provide that the tree preservation plan excludes those portions of the site which it determines will not be affected by the activity. Any tree preservation plan required by this Section must be dated within thirty-six months of the start date of the proposed activity.

Tree Removal: The cutting down, destruction, removal or relocation of any tree, including damaging by poison or other direct or indirect action.

42.3 Preservation.

- A. The Village shall have on staff at least one certified arborist. This individual shall be responsible for all tree related decisions to be made. Additionally, any urban forestry work completed by a contractor within the Village shall be under the direction of the certified arborist. This individual is also responsible for enforcement and compliance of the Urban Forest Management Plan.
- B. The Village shall have an urban forest inventory of publicly owned trees and a representative sample of privately owned trees. This inventory shall be maintained in a current state. Re-inventory may be required every 5-7 years unless the inventory is updated as part of routine tree maintenance.
- C. The Village shall have an approved Urban Forest Management Plan. This plan shall be the framework for the protection, management and planting of trees within the Village and shall support and clearly define regulations identified in this Chapter.
This plan shall include the following:

1. A defined ten-year urban forestry strategy with clearly identified one, five, and ten years goals;
2. Community canopy mapping identifying existing tree canopy and priority locations for planting;
3. A strategy for completion and maintenance of a tree inventory on public and private property;
4. Clear guidelines on tree species and age diversity;
5. Clear identification of replacement value and requirements for tree removal or damage;
6. An acceptable tree species list.
7. Clearly defined specifications for tree planting, pruning, and impact reduction;
8. A risk assessment and management program;
9. Clear identification of staff qualifications, training, support and needs;
10. Specifications for contracted labor and consulting; and
11. A forestry budget with one, five and ten year commitments.

- D. Any Contractor, working within the Village who may interact or have impact on the Village's public property urban forest shall utilize a certified arborist for all work pertaining to trees, including but not limited to removal, pruning and planting activities. Such Contractors shall also submit a certificate of insurance in the minimum amount of \$1,000,000 for bodily injury and \$500,000 for property damage and which shall name the Village as an additional insured.
- E. All tree planting, selection and management shall be in compliance with the Village's Urban Forest Management Plan. The practice of tree topping shall be explicitly prohibited on any tree.
- F. It is recognized that diverse species and age structure of urban trees throughout the Village are critical to the health of the forest structure and protects the Village from catastrophic loss and improved longevity. Specifications for species and age diversity, planting and management are contained in the Urban Forest Management Plan.

42.4 Planting.

- A. As outlined in the Urban Forest Management Plan, the Village shall plant, and recommend to private landowners, diverse species with the ratio of not more than 15% of any one family, 10% of any one

genus or 5% of any one species, with the exception of naturalized areas where species selections are based on the natural species assemblages as defined in the Urban Forest Management Plan. Diverse species composition protects the Village from catastrophic loss.

- B. All trees planted by the Village or their agent shall be planted in accordance with the Urban Forest Management Plan.
- C. Trees purchased by the Village shall meet the specifications required in the Urban Forest Management Plan.
- D. It shall be unlawful to plant any tree or shrub in the public right-of-way, or on other publicly owned property or Conservation or Preservation Area, without prior written approval and obtaining any applicable permit from the Village and, in the instance of the Conservation or Preservation Area, the language on the recorded plat shall prevail.
- E. It shall be unlawful to plant any tree under utility wires that is anticipated to grow to a height that will interfere with the wires.
- F. The Village shall implement a contract growing program. This contract will allow for stable pricing and broader species diversity to improve the overall diversity of the urban forest. This contract may be for a period of five (5) to ten (10) years.
- G. The Village shall provide education and outreach to private landowners on the need for species and age diversity, proper selection and planting practices, and how to select species for particular sites.

42.5 Tree Care.

Tree care within the Village, on public lands, shall comply with requirements identified in the Urban Forest Management Plan. It is recommended that tree care on private property meet these same requirements.

42.6 Tree Protection.

This Section applies to any work or activity which may impact public property trees.

- A. Unless otherwise authorized by this Section, it shall be unlawful for any person to remove, injure or undertake any procedure which will cause death, substantial damage, or create a hazard, to any public property tree without first obtaining a Tree Permit from the Village. In the case of tree management practices, these practices shall comply with the requirements identified in the Urban Forest Management Plan.
- B. In the event of any site improvement which may impact public property trees, a Tree Preservation Plan is required, must be approved, and implemented prior to the start of any work or delivery of any materials to the Building Activity Area. The approved Tree Preservation Plan shall be available on the site throughout the entire construction period until final approvals for all site work shall be received in writing.
- C. In instances where the activity requires the use of heavy equipment and where that activity may impact trees on public or private property, all appropriate tree protection measures must be taken

and identified in the Tree Preservation Plan. In addition, all tree protection measures shall be in compliance with the Urban Forest Management Plan.

- D. It shall be unlawful for any person to attach any sign, advertisement or notice to any tree in any street, parkway or other public place in the village.
- E. It shall be unlawful for any person to attach any wire or other rope to any tree in any public street, parkway or other public place without the prior written approval of the Village.
- F. Any person or company given the right to maintain poles or wires in the streets, alleys or other public places in the village shall, in the absence of any provisions in the franchise or other ordinance, code or agreement concerning the subject, keep such wires and poles free from and away from any trees in such places so far as may be possible and shall keep all such trees properly trimmed and subject to the supervision of the Village so that no injury shall be done to the poles, wires, or trees by contact.

42.7 Tree Removal.

Tree removals are considered an impact to the entire Village, whether on public or private land. It is clearly documented that larger trees provide larger benefits and as such, tree removal fees and fines are based on species and diameter. It is recognized that the planting of smaller trees does not replace the value of larger trees that are lost. It will take tens of years for that value to be replaced and for that reason efforts should be made to preserve and protect trees where they are growing.

- A. It shall be unlawful for any individual to remove or cause damage to any tree located on public property without first receiving a Tree Permit from the Village.
- B. No live, dead or dying tree, or grouping of trees, equal to 6" or greater on public property may be removed without first obtaining a permit from the Village.
- C. A nuisance tree is a tree that has already died, is in a state of irrevocable decline, has the capacity to damage a person or thing or is an invasive species. In the event of an emergency, and access to the Village is not possible, a nuisance tree may be removed without a permit, however, the individual removing the tree shall take photographs and memorialize the nuisance situation prior to removal and shall follow up with a request for a tree permit from the Village on the next business day.
- D. Any tree removed from a parcel or transplanted offsite must be replaced according to the regulations outlined in the Urban Forest Management Plan.
- E. All stump removals shall require underground utility locations prior to any action.
- F. If a tree is removed or damaged which is not on the Tree Permit it must be replaced in accordance with this Chapter.
- G. Removal of invasive woody plants such as buckthorn does not require a permit and is encouraged. These invasive plants can quickly colonize an area reducing the health and vitality of non invasive plants. A list of invasive woody plants is provided in the Urban Forest Management Plan.

42.8 Tree Replacement.

- A. It is required that tree replacement species come from the Acceptable Species List. The Acceptable Species List is provided in the Urban Forest Management Plan.
- B. Any tree species removed, 6" DBH or 6" group of trees, which is not identified on the invasive species list, is required for replacement by this Section. These trees shall be replaced based on a 2 for 1 replacement ratio with trees on the Acceptable Species List. All replacements shall be located appropriately as confirmed by a certified arborist and as approved by the Village.
- C. When a tree removal is required as a result of any project, tree replacement shall occur within the landscape season. In the event of weather conditions or species specific needs, which prohibit proper replacement of a tree, the Village may issue written notice of an extension of up to 180 days upon written request by the Applicant. If an extension is awarded to the Applicant, the Applicant shall notify the Village when replacement is complete. Tree removal requirements, associated with a development project, can be found in the Development Section of the Code.
- D. All tree replacement plantings shall require an underground utility location prior to planting.
- E. If the property where a removal has taken place does not have adequate space to plant a replacement tree, then the Applicant shall be required to pay the Village a dollar amount as identified in the Fee Section of the Code. Funds shall be placed in the Tree Bank for tree replacement or tree care in another area of the Village.
- F. It shall be encouraged that any species identified on the invasive species list be removed. There is no replacement requirement for these removals.

42.9 Significant Removals.

An applicant seeking a permit for significant tree removals or tree removal and/or planting related to construction and/or development shall comply with all requirements of this Chapter and the Urban Forest Management Plan.

42.10 Nuisance Trees.

A tree which is determined to be a nuisance tree is one which is dead or declining, an invasive species, or has the potential to damage other trees, people, or structures. These trees may be located on public or private property. A nuisance tree shall include a tree which is allowed to overhang any sidewalk, street, or other public place in the village in such a way as to impede or interfere with traffic or travel on such public place or obstructs the light from a street light or obstructs the view of an intersection.

- A. It shall be the duty of the property owner on any parcel to promptly remove any nuisance trees.
- B. Should the Village notify the property owner, in writing, of a nuisance tree, the property owner shall have thirty days to remove the tree or otherwise abate the nuisance. If after thirty days the property owner has not removed the tree then the Village shall take action to have the tree removed and shall provide to the property owner a written invoice outlining all costs associated with the removal, including but not limited to staff time, materials and oversight of said removal. Should the property owner not reimburse the Village within thirty days of issuance of a written

invoice, the Village shall place a lien on the property until all expenses related to the removal and subsequent lien are paid.

C. Infected, Infested Trees Due to a Pest or Pathogen Are Defined as a Nuisance

1. Any tree which is in a state of irreparable or untreatable decline due to heavy infestation or disease is included in the definition of a nuisance. Infested or infected trees, which are identified by Federal or State Departments of Agriculture to be in quarantine or can potentially infect or infest other trees are defined as a nuisance. This would include but not be limited to Ash (*Fraxinus*) trees infested with emerald ash borer which are not being treated or whose treatment is ineffectual, or Elm trees (*Ulmus*) infected with Dutch elm disease.
 - a. The Village shall enforce State and Federal regulations governing quarantine zone boundaries, and regulated articles.
 - b. It shall be illegal to move out of established quarantine zone(s) regulated articles unless those articles have met all requirements of the local, Federal and State regulatory agencies.
 - c. It shall be illegal for any person or entity to transfer from a quarantine zone into a non-quarantine zone including the Village any regulated articles.
 - d. Any person or entity found to be in violation of any local, State or Federal regulations related to tree infestations or infections shall be prosecuted to the full extent of the law.
 - e. All contractors working within and near any quarantine zone(s) are required to comply with the quarantine regulations and supply records that may be required for inspection to the Village, County, State or Federal agencies upon request.
2. Trees in Decline or Dead Are Defined as a Nuisance
 - a. Any tree or part of a tree which is dead which could potentially fall on a person or structure is defined as a nuisance.
 - b. It shall be unlawful for any owner of any lot or land in the Village to permit or maintain on any such lot or land, any tree which is dead, or declining to the state where it may create a potential risk for structures or people. It shall be the duty of any such owner to promptly cause the removal of any such tree.

42.11 Invasive Species Control.

- A. Invasive Woody Plants. Invasive plants cause ecological disruption to natural ecosystems. The type of impact varies based on the species and the traits of that species. The Woody Invasive Species List is included in the Urban Forest Management Plan. These species shall not be planted and should be removed and controlled to reduce impacts to other vegetation.

1. Typical impacts include:
 - a. Chemical disturbance to the soil limiting development of other species;
 - b. Dense plant growth limiting light to soil surface resulting in exposed soil allowing erosion;
2. Displacement of naturally occurring species resulting in a monoculture of invasive species and aggressive tendencies.
3. Private Property Owner Outreach. The Village shall have implementation and outreach plan to educate property owners of the potential impacts and remediation strategies, including a suggested planting list of alternative species to assist property owners in dealing with the problem. This plan is located in the Urban Forest Management Plan.

B. Invasive Diseases and Insects.

1. Impacts to Trees. Invasive diseases and insects can create significant stress to trees and in some instances kill trees. The Village has developed a list of Invasive Diseases and Insects that pose significant threats to trees from information identified by State and Federal Departments of Agriculture. This list is included in the Urban Forest Management Plan.
2. Invasive Species Management Plan. Management of invasive diseases and insects is included in the Urban Forest Management Plan.
3. Private Property Owner Outreach. The Village shall have an implementation and outreach plan to educate property owners of the potential impacts and remediation strategies to help property tree owners in dealing with pests or pathogens. This plan is located in the Urban Forest Management Plan.

42.12 Tree Commission.

Pursuant to Chapter 2, Article IV, Division 6 of the Village Code, the Village has created a Tree Commission which shall serve as the recommending body to provide assistance, direction and expertise to the Village regarding the preservation, planting, management and protection of trees.

42.13 Tree Permit Procedure and Issuance.

- A. Applicant Submission. An applicant for a simple tree removal or planting on public property shall fill out a Tree Removal or Tree Planting Request online, or in person, and the Village arborist shall make an inspection and render a determination. If a removal or planting is significant or in conjunction with any type of development, then a full tree preservation plan and inventory for the area to be impacted may be required. Village staff shall review the application. This review shall include an inspection of the site and referral of the application for recommendation to other appropriate administrative departments or agencies. The Village shall render a decision on the application within ten working days of its receipt of a properly completed application.

- B. Issuance. The Village shall issue a Tree Permit upon approval of an application and payment of a required fee as indicated in the Fees Section of this Code.
- C. Time Limitation. A Tree Permit shall expire and become null and void if work authorized is not commenced within one year from the date of the permit or if such work when commenced is suspended or abandoned at any time for a period of one year. If work has commenced and the Tree Permit becomes null and void or expires because of a lack of progress or abandonment, a new Tree Permit for the proposed tree removal or planting activity shall be obtained before proceeding with further work.
- D. Final Inspection. Final approval shall be issued when all relocation, replacement or remediation of trees is completed and a final inspection has been conducted by Village staff. Should the Village determine that the season is inappropriate for planting then relocation or replacement shall be deferred until the next planting season. All fees will remain in the custody of the Village until final inspection and approval has been provided in writing.

42.14 Compliance and Enforcement.

- A. Compliance. The Village shall retain jurisdiction to ensure compliance with this Chapter and shall have the right to issue a stop work order for non-compliance.
- B. Right of Entry of Village Officers. To carry out the purposes of this Chapter and to implement its enforcement, the Village is authorized and empowered, upon 24 hours notice, to enter upon any lot or parcel of land in the Village at all reasonable hours to inspect any tree or wood and to remove specimens from any such tree to determine their condition. It shall be unlawful for any person to interfere with a Village Officer carrying out the duties authorized in this Section.
- C. Duty of Property Owner to Abate Nuisance or Potential Risk. If it is determined that there exists a public nuisance or risk as declared in this Section, the Village shall serve or cause to be served upon the owner of the lot or parcel of land on which such nuisance or risk is located, a written notice identifying the nuisance or risk and requiring the owner to comply with the provisions of this Section. If the person upon whom such notice is served fails, neglects or refuses to remove and dispose of the tree or dead wood or otherwise abate the nuisance within thirty days after service of such notice, the Village may proceed to remove and dispose of such tree or dead wood or otherwise abate the nuisance, and the costs shall be paid by the owner to the Village.
- D. Service of Notice to Property Owner. Service of notice provided for in this Section shall be effected by personal service or by certified mail addressed to the occupant or to the person to whom, and at the address, to which the tax bill was sent for the general taxes for the last preceding year on the lot or parcel on which the nuisance is located.
- E. Village Abatement and Assessment of Costs. Any costs incurred by the Village in the abatement of a public nuisance or hazard as declared in this Section shall be assessed against the record owner of the land involved and the Village shall place a lien upon such property for those costs in the manner provided by law.

42.15 Appeals.

- A. Any person aggrieved by any decision of the Village in the enforcement of any terms or provisions of this Section may, within ten working days after the date of the decision, appeal to the Tree Commission by filing a written notice of appeal with the Village Clerk. The notice of appeal shall set forth concisely the decision and the reasons or grounds for the appeal. The Tree Commission may make a recommendation to the Village Board to affirm, modify, or reverse the decision. The decision of the Village Board shall be final and no petition for rehearing or reconsideration shall be available. Reasonable notice of the hearing by the Tree Commission shall be provided by the Village Clerk to all affected parties.
- B. No variances in the strict application of the provisions of this Section shall be recommended for approval by the Board unless it finds:
 - 1. That there are special circumstances or conditions, fully described in the written notice of appeal which are peculiar to the property (properties) and do not apply generally to properties within the Village, and that said circumstances or conditions are such that the strict application of the Code would deprive the applicant of the reasonable use of the subject property (properties).
 - 2. That for reasons fully set forth in the written notice of appeal, the granting of the variance is necessary for the reasonable use of the property (properties) and that the variance, as recommended for approval by the Board, is the minimum variance that will accomplish this purpose.
 - 3. That the result of granting of the variance will be in harmony with the general purpose and intent of standards set forth within this Code and in harmony with this Section, and will not be injurious to adjacent property or otherwise detrimental to the public welfare.

42.16 Fees.

Application fee for Tree Planting Permit: \$0

Application fee for Tree Removal Permit:

-Tree less than 6" DBH = \$0

-Tree greater than 6" and less than 12" DBH: \$50

-Tree greater than 12" DBH: \$100

Tree Replacement Fee: \$300

42.17 Penalties.

Any person found guilty of violating any provision of this Section shall be subject a fine of not less than \$250 nor more than \$750 for each offense. Each tree cut down, destroyed, damaged, removed or moved shall constitute a separate offense. In addition to these penalties, if a tree is removed in violation of this Section, all replacement requirements of this Section shall be applied.

2021 Tree Inventory Executive Summary



Village of Rantoul

Prepared By:
Leslie Delles, Urban Forestry Consultant
ISA Certified Municipal Arborist # IL 9199-AM TRAQ
October 19, 2021



Introduction

On September 27, 2021, Certified Arborists from Great Lakes Urban Forestry Management (GLUFM) began collecting data for a comprehensive tree inventory of the Village managed trees within the municipal boundaries of the Village of Rantoul. This inventory resulted in a total count of 3,162 trees, 1,056 planting spaces, and 231 stumps. This executive summary is a brief statistical overview of the inventory data and will address some of our observations, as well as some potential mitigation measures and other recommendations. GLUFM is pleased to provide its tree inventory and GIS mapping services along with this summary and analysis of the tree population. Rantoul is now equipped to use this valuable information to address short term concerns, long term management considerations, and overall planning objectives.

Collection Parameters

The following is a detailed description of data that was collected for each tree.

X and Y

These are the X and Y coordinates of the tree location, recorded as WGS 84 coordinates coordinate system in decimal degrees.

TREE STATUS

For this inventory, the status field indicates that the site is home to an Active Tree, Planting Space, or a Stump.

PARK NAME

For this inventory, the Park Name field was used for trees inventoried in Village parks and other Village owned properties.

ADDRESS

The address was recorded as the numerical address at which a tree is located, based on the observed street address, or the listed street address of the GIS parcel data we have available to us.

STREET NAME

The street names conform to the names as listed on Village street signage. The street name is for the address at which the parcel is listed, regardless of how the buildings on the lot are oriented (if on a corner lot).

RELATIVE LOCATION (SITE)

All trees are listed by address, street name, and the following site prefixes, which determine where exactly on a property the tree is located:

F – Front of the property

R – On the right side of the property

L – On the left side of the property

B - In the back of the property

M – On a median or cul-de-sac island

A - Across the street from an address, but the tree's parcel had no address of its own

The order of trees at a parcel with multiple trees will always be labeled corresponding to the flow of traffic, even in the case of one-way streets. The flow of traffic numbering system holds true for the left, right, and back sides of the property as well.

SPECIES

All tree species are listed using common and botanical names and were identified to the species level. Specific cultivars, hybrids, or varieties were not identified.

STEMS

The Stems field indicates how many stems diverge below 4.5 feet above the ground.

DBH

Trees were measured using DBH (Diameter at Breast Height, 4.5" above ground level), a standard forestry measure of tree diameter, using a forester's DBH tape. This method of measurement provides the most accurate reading of tree diameter, which can be highly variable depending on the dimension in which it is linearly measured.

CONDITION

Condition ratings are based on a normal standard distribution. Much like in academic circles, we expect the greatest number of trees in the average category (3), fewer trees in the good and poor categories (2 and 4, respectively), and the fewest number of trees in the excellent and very poor categories (1 and 5, respectively). Condition is a continuous variable, meaning that anywhere along the curve we supplied, you should be able to estimate the number of trees that are (e.g.) a 2.5 condition, even though condition was only recorded as whole number integers. (see table below)

Condition 1	Specimen – Tree has no observable defects, wounds, diseases, and has textbook perfect form for the species. In addition, since young trees have a tendency to be trouble free and homogenous, a condition 1 tree must by definition be greater than 16" DBH. These are legacy trees, and as such are rare.
Condition 2	Above Average – Tree may have a small amount of deadwood, or a very limited number of minor defects. The overall form of the tree must be good, and consistent for the species in question. These trees should also be larger than 8" DBH for the reason listed above. Often the difference between condition 2 and 3 is form or growth habit.
Condition 3	Average – Tree has moderate but acceptable amounts of deadwood, wounds, or other defects, but is generally healthy. A wide variety of forms is acceptable for this group, which is meant to define the middle ground around which better or worse trees can be defined and identified.
Condition 4	Below Average – Tree has defects, deadwood, wounds, disease, etc. that have to the potential to cause a need for removal. Very poor form or architecture can put an otherwise healthy tree in this category as well, due to the potential for tree or root failure.
Condition 5	Very Poor/ Dead – Tree must be removed. Physical or Health defects are too far gone for the tree to be reasonably saved. Like condition 1 trees, these are relatively rare, as generally trees that are getting to this level are removed before they can get there.

ARBORIST RECOMMENDATION

Maintenance recommendations are provided to assist in managing the tree population. They are very general guidelines for pruning and care, and we find they are helpful for managing and prioritizing maintenance.

Prune- Cycle	Tree is in good health, and will require standard pruning or maintenance on a 3-5 year cycle
Prune- Train	Tree is within the 1-6 inch DBH range and requires structural pruning to establish good architecture
Prune- Priority	Tree has not been properly pruned during its developmental years, has suffered damage, is overgrown, has low risk deadwood, or for other reasons is in need of pruning sooner than a 3-5 year standard cycle
Prune- Dead Limb	Specific dead limb(s) not qualifying as moderate or severe deadwood by percentage
Remove- Standard	Tree must be removed, but does not pose an immediate elevated risk situation; should be removed within 1-3 years
Remove- Low Priority	Tree is recommended for removal as budget and time allows
Remove- Priority	Tree poses an elevated risk and should be removed in an expeditious manner
Risk Assessment- Standard	Level 2 - Standard Risk Assessment is recommended; an assessment without advanced tools or climbers
Risk Assessment- Advanced	Level 3 - Advanced Risk Assessment is recommended; an assessment using advanced tools, techniques and/or climbers
Monitor- Annual	Tree has an structural defect or other significant issue that requires yearly reassessment
Monitor- Long Term	Tree has an indiscernible defect, or shows signs of developing issues or general decline and requires long term monitoring for further change or decline
Grind Stump	Stump is visible and should be removed
Maintenance- Other	Tree requires maintenance not related to pruning or removal. Typically used for situations such as leaning new plants, chemical treatment, mulching, girdling objects, etc

RECOMMENDATION REASON

Reasons for the arborist recommendations above are listed here. This is a limited list but includes the most common observed issues that justify the condition and arborist recommendation for that tree.

Clearance		Branches are blocking/ touching Building, Sidewalk, Street, or Sign
Dead		Tree is dead or nearly so
Deadwood	Large Limb	One or more larger dead limbs requiring removal but not moderate or severe deadwood by percentage
	Moderate	Tree contains 11-30% deadwood, by ocular estimate
	Severe	Tree contains more than 30% deadwood, by ocular estimate
Decay Column		Tree has visible or audible decay in central trunk(s)
Defect	Other	Tree has other defect not listed, specifics noted in comments field
	Unobservable	Tree has a potential defect that is not observable from the ground
Dieback		Tree crown is dying back
Girdling Object		A nondescript object is girdling the tree or tree part
Hanger		Branches are hanging in crown, partially attached or free hanging
High Location Value		Justification for Risk Assessment; tree is in prominent location and has ecological value
Included Bark		Tree branches have tight V-shaped union(s) and have developed bark inclusions
Insects/Disease		Tree has observable signs or symptoms of pests or pathogens
Lean		Tree is leaning at undesirable angle
Mechanical Damage		Basal damage caused by landscaping equipment, or other physical damage
New Planting		Justification for establishment pruning, staking, mulching, etc
Other		Other notable observance not listed, specifics noted in comments field
Overgrown		Excessive branch or sucker growth requiring priority pruning
Poor Form		Tree has poor architecture, often due to limited growspace or improper pruning
Roots	Compacted	Observed or inferred signs of soil compaction
	Girdling	Observed girdling roots or severe trunk flattening
	Heaving	Observed evidence of root or soil heaving
	Multiple Issues	Two or more root issues
	Still BB	Roots confined to ball & burlap due to intact twine and basket, treated burlap, or other observed factor
	Wounded	Root damage from construction, hardscape, mowing equipment, or other factor
Rot	Heartwood	Observable internal decay; decay column, cavity, etc
	Basal	Observable decay at the base of the tree
	Sapwood	Observable vascular tissue decay
	Other	Other signs of decay such as wetwood, root rot, etc
Mushroom/Conk		Visible fungal fruiting bodies
Topped		Tree had its apical meristem or terminal leader removed; typically due to poor pruning practice, utility pruning, or storm damage
Weak Trunk Union		Weak union caused by included bark or poor branching angles that have compromised structural stability
Wounds	Crown	Scaffold or secondary branch wounds affecting tree health and/or stability
	Trunk	Trunk wounds affecting tree health and/or stability
Utility Conflict		Pruning required due to interference with wires, street lamp, traffic light, or other utility
Sign Conflict		Pruning required due to obstruction of signage
Storm Damage		Tree has recent damage due to storm or winds such as torn limbs

LAND USE

For the purposes of this inventory, land use designations include Agricultural, Commercial, Industrial, Institutional, Multifamily, Recreational, Single Family, Transportation, and Other.

GROWING SPACE/PARKWAY SIZE

For street tree inventories, this field is used to record the distance from the curb to the sidewalk or such other soil volume conditions or restrictions.

1-3 FEET	Parkway width is 1-3 feet
4-6 FEET	Parkway width is 4-6 feet
7-12 FEET	Parkway width is 7-12 feet
13+ FEET	Parkway width is 13 feet or greater
TREE PIT	Tree is planted in a container or pit
NO SIDEWALK	No sidewalk is present
OPEN	Tree is growing in an open area, used primarily for trees in Park settings
OTHER	Any other category not described above

RISK LEVEL

This is the equivalent of a Level 1 Limited Visual Risk Assessment and denotes a condition observed by the Arborist that would appear, in their judgement at the time of the inventory, to pose possible risk to people or property. The specific condition would be reflected in the above Arborist Recommendations and Reasons.

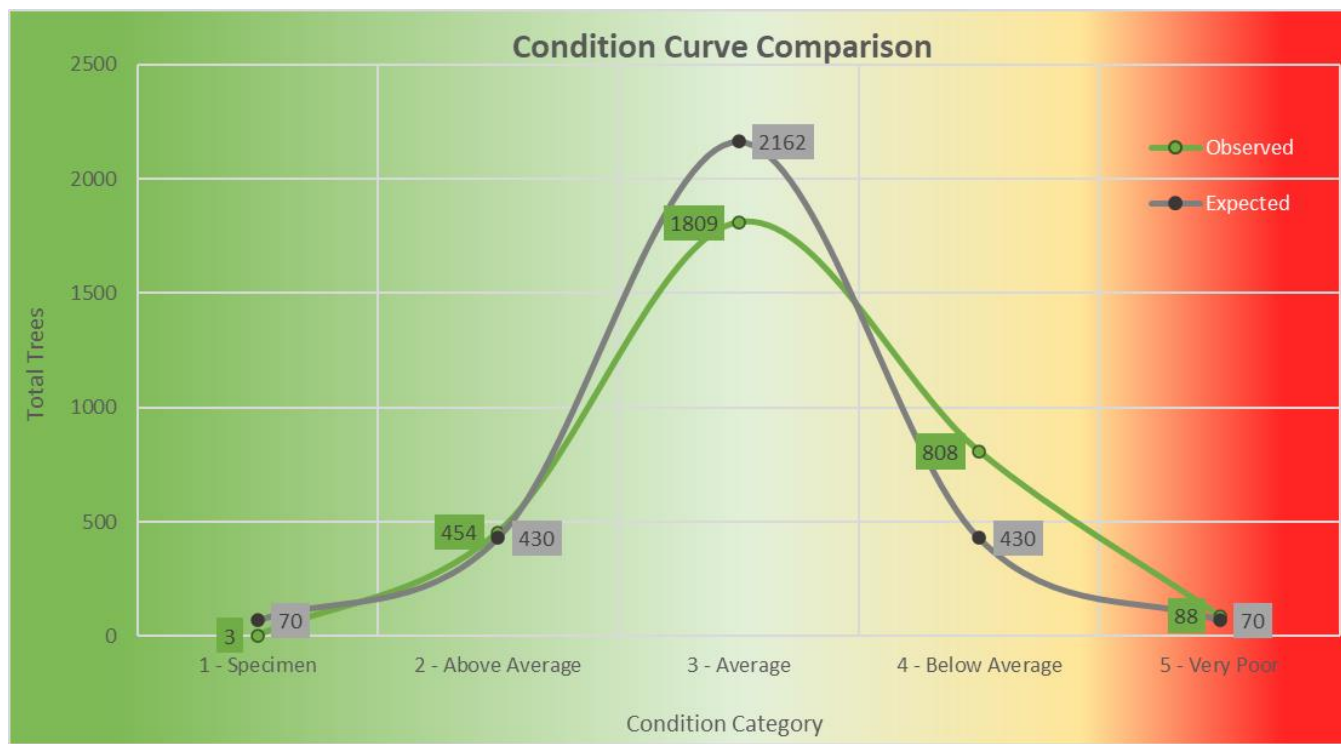
None Observed	No observable risk observed at the time of the inventory
Elevated	Moderate level of risk to people or property that should be investigated by the Owner/ Manager
Substantial	High level of risk to people or property that should be investigated by the Owner/Manager and mitigated as soon as practical
Critical	Extreme level of risk to people or property that should be mitigated by the Owner/ Manager as soon as possible

COMMENTS

Comments have been included as a courtesy to denote any conditions worthy of note. These comments will be standardized as much as possible, though certain situations certainly exist where nonstandard comments were utilized.

Statistical Overview

Number of Trees Inventoried	3,162
Number of Stumps Inventoried	231
Number of Planting Spaces Inventoried	1,056
Total Number of Species	92
Total Diameter Inches	56,846"
Average Tree Diameter	17.98"
Average Tree Condition	3.17 (Below Average)



This curve represents the distribution of trees in each of the categories enumerated above. As stated in the collection parameters section, deviations from the expected normal standard distribution can serve as a useful tool in analyzing the overall health of a tree population, and for this reason, we have included a theoretical curve representing a normal distribution so that comparisons can readily be made. The green line with green labels represents what we observed in the field, and the grey line with grey labels is the predicted normal distribution. The condition curve for the Rantoul inventory indicates a tree population that is in overall below average condition.

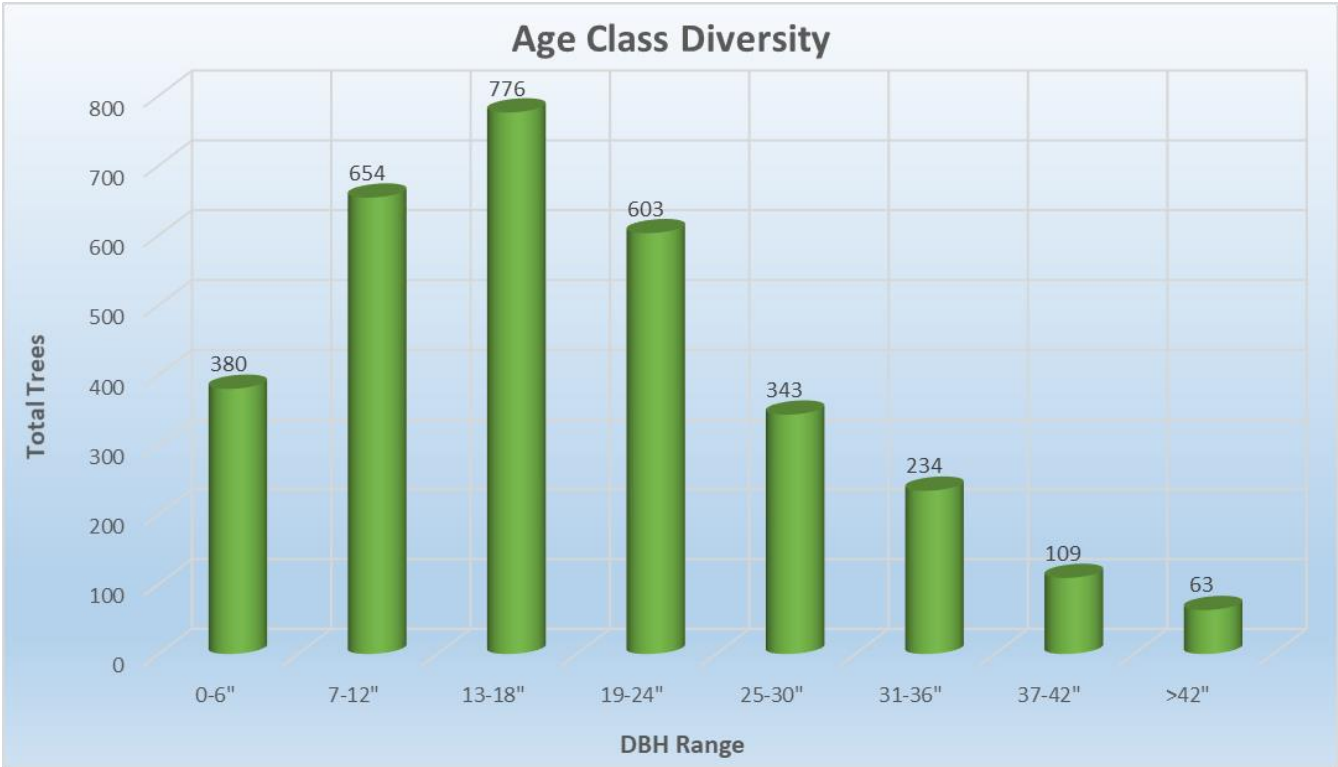
The Condition 1, or specimen trees, were much lower than would be predicted by the standard distribution alone, but we often expect that the specimen trees (and often Condition 5 trees as well) will come in lower than their statistical norm because of their relative rarity. A Condition 1 tree, by definition, must be at least 16" DBH (and generally much larger), have textbook perfect architecture for the species, and have no observable defects. Although a considerable percentage of the Rantoul population exceeds the 16" DBH threshold, many mature trees have developed considerable deadwood, decay, or other structural defects. As younger trees are planted in sites with adequate growing space, and if they are properly pruned and maintained, they should develop with good structure and may mature to become Condition 2 and eventually Condition 1 trees.

The Condition 5, or very poor trees, are a bit higher than the expected norm. It is recommended that Condition 5 trees be prioritized and removed in a timely manner.

The Condition 2, or above average trees, are slightly higher than what statistical analysis would predict which is a positive characteristic of the population. Similar to the Condition 1 category, Condition 2 trees need to have good structure that is consistent with the species in question, be free of major defects, and also be over 8" DBH. There were a number of the trees in Rantoul that were eligible for a Condition 2 rating did not meet the structure and condition standards. Looking toward the future, Rantoul has an opportunity to further increase the number of trees in the Condition 2 category. In general, if trees are properly mulched and maintained, newly installed trees are done so correctly and cared for well, and site selection for the trees is well matched to the species, trees will often mature with good form and without significant defects. These trees can eventually become Condition 2 trees.

The Condition 4, or below average trees, were much higher than what would be statistically expected. This data represents the significant number of over-grown trees that have developed structural defects, decay, and deadwood. Rantoul can use the data from this inventory to locate Condition 4 trees and prioritize them for maintenance or removal. Rantoul can look to further decrease this number over the next few years as they move forward and attend to issues that have been identified.

The trees in the Condition 3, or average, category are significantly lower than the expected norm. The reason for this is that many trees that would typically be in this category are instead in the Condition 4 & 5 categories. It should be mentioned that all trees under 8” DBH are automatically assigned this category unless they happen to be in worse condition. As Rantoul uses this inventory data to prioritize and attend to identified issues, it is expected that the Village’s condition curve will begin to trend more toward average.



This age class analysis chart illustrates a somewhat atypical trend in the overall age spread of a tree population seen in a municipal setting. Often, we see a larger percentage of trees being younger to middle aged and a relatively lower number of trees in the older age categories. The Rantoul tree population is largely middle aged to mature with over 67% of the tree population measuring more than 12” DBH. With 1,056 planting spaces identified in the inventory, this gives Rantoul an enormous opportunity to focus on tree planting going forward. As shown above, just 12% of the total population has a DBH of 6” or less which we generally consider to be less than about 15 years old. It is assumed that most trees grow on average approximately ½” per year, although that figure varies significantly depending on the species in question. Approximately 21% of Rantoul’s trees have a DBH of 7-12” which are generally considered to be about 15-25 years old. The 13-18” DBH category is the largest and it makes up almost 25% of the population and is considered to be approximately 25-35 years old. The 19-24” DBH category makes up 19% of the population and those trees are generally mature trees over 35-45 years old.

Trees measuring over 24” DBH account for about 23% of the total tree population. The 749 trees in the 25”+ DBH categories are considered to be about 45-50+ years old. Many of these may be nearing the end of their natural life. A significant number of these trees are in Below Average or worse condition. It should be mentioned that the number of trees in the 30”+ categories are often lower due to the natural senescence and ensuing decline of trees in urban settings. A fairly equal number of trees in each age classification is, within reason, desirable and indicative of a consistent focus on tree planting and tree maintenance in Rantoul over the years and shows that the right trees are being planted in the correct locations. As the younger trees continue to grow, Rantoul will have an opportunity, over time, to bring the tree age classes to a more balanced level.



In terms of Arborist Recommendations of maintenance needs in the Rantoul tree population, the statistics displayed above show that a moderate percentage of the population (30%) is recommended for a mitigation other than cycle prune. Of these, 202 trees are recommended for removal. The 202 trees in the “Remove” sets include a variety of tree species which have declined or developed structural defects and are beyond the point of salvaging. A number of these are aging Maple trees in various stages of retrenchment, which is the natural die back of a tree’s crown die due to old age. The 3 Priority Removals should be prioritized over other removals. The 124 trees designated as standard removals should be prioritized and removed in a timely manner. The 75 trees in the low priority category should be removed as time and budget allow. The remaining categories, other than removals discussed above, were used to indicate trees in need of maintenance which should be prioritized over those in the Cyclical Prune category and will be discussed briefly below.

The 365 trees in the “Prune-Priority” group and the 94 trees in the “Prune-Dead Limb” group are trees which are simply overgrown, or have parts which need to be removed promptly, and should have pruning prioritized over the trees in the cyclical prune set. Generally, we consider this to be a “within 1-3 years” level of pruning.

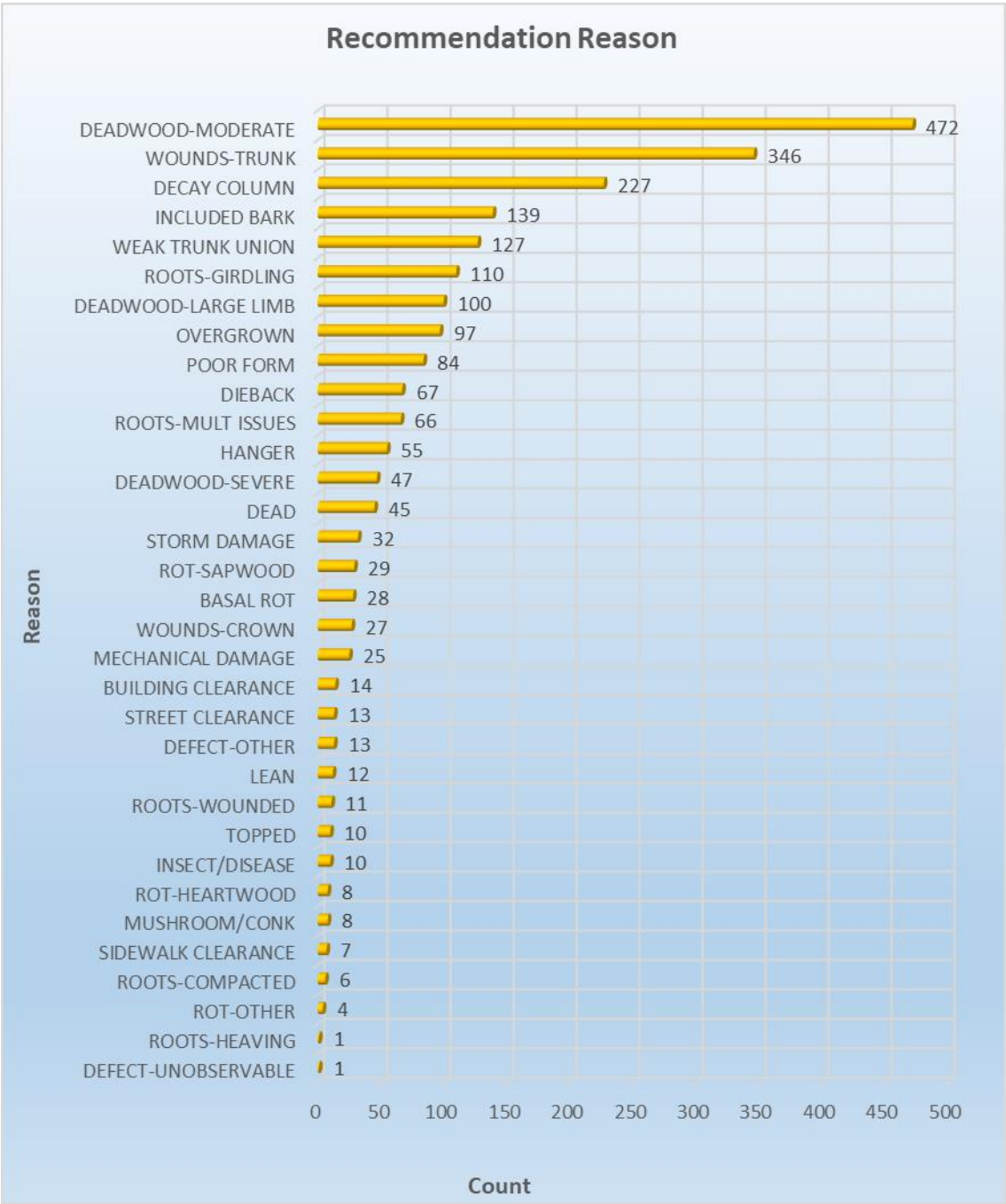
The 240 trees in the “Monitor-Long Term” and the 16 trees in the “Monitor-Annual” categories can be viewed as being in a transitional phase. For the most part, these trees have an indiscernible defect, or shows signs of developing issues or general decline which must be observed. These trees should be reassessed periodically, and their maintenance status updated as necessary.

Trees categorized as “Prune-Train” are typically trees smaller than 8” DBH and have structural issues or are overgrown and require selective pruning to establish better architecture in the future. Establishment pruning, or the pruning of young trees to establish proper branching habit and structure, is one of the least expensive yet most effective maintenance items that can be performed on a young tree.

There is 1 tree recommended for a standard risk assessment. Trees recommended for Risk Assessment are often higher quality species which have developed defects and require a more in-depth inspection and analysis to determine Rantoul’s risk tolerance threshold and the need for mitigation efforts. It is recommended that a Level 2 Basic or Level

3 Advanced Risk Assessment be performed on trees recommended for Risk Assessment (per TRAQ or ANSI A300 Pt 9 Standards), or equivalent (ISA Tree Risk BMP methodology, Matheny, and Clark, etc).

As will be discussed in detail in Rantoul’s Urban Forestry Management Plan, it is highly recommended that the Village develop and implement a cyclical pruning program. This will ensure that each Village tree in Rantoul will be pruned on a regular basis. Proper pruning will help to improve the overall condition of the tree population.



The “arborist recommendation reasons” summarize the field observations into the main factors that justify the Arborist Recommendation and the condition rating of each tree. Some trees may have more than two factors, but the two most prominent issues that directly pertained to the maintenance recommendation or condition were noted. Rantoul can use this inventory data to query specific defects and prioritize mitigation actions. This chart illustrates an interesting overview of the overall health, defects, and maintenance needs of Rantoul’s tree population.

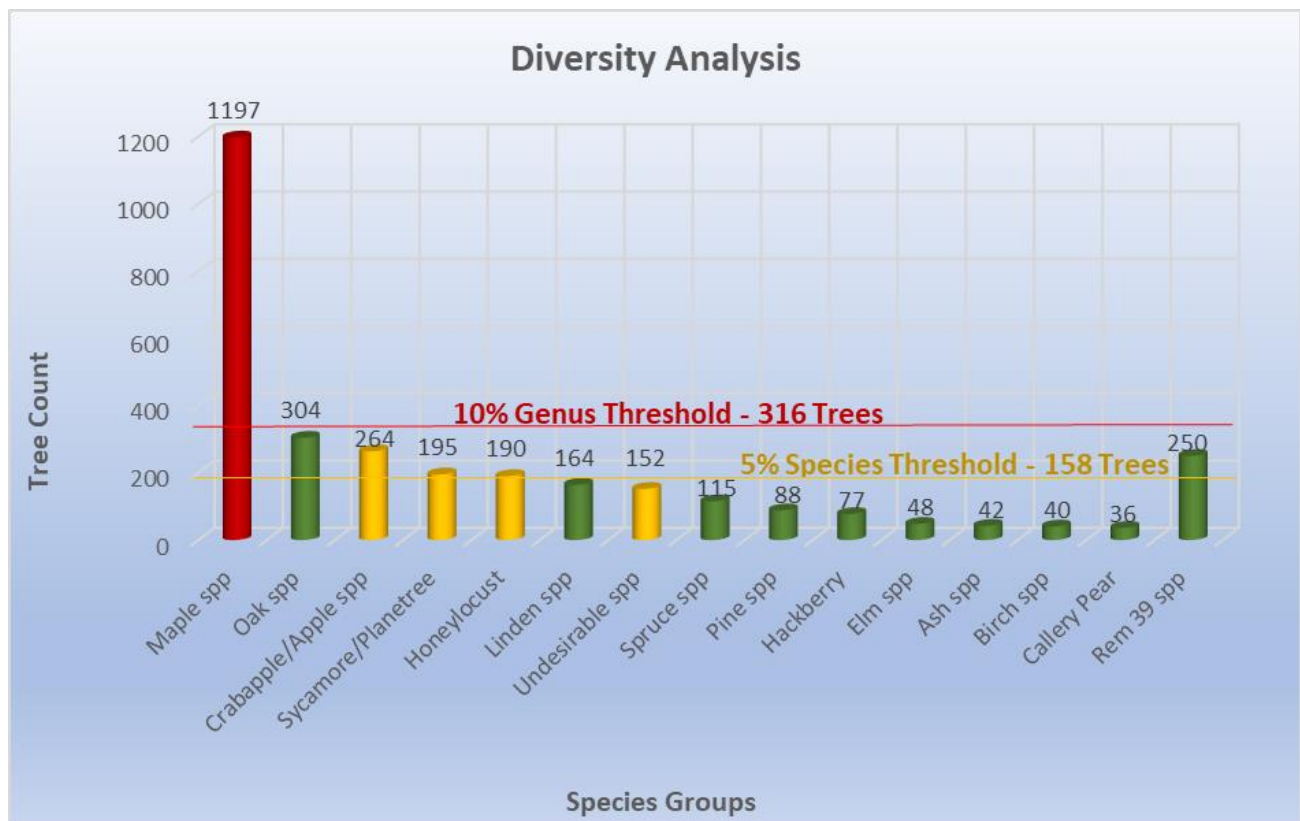
Risk Level Summary

We cannot stress enough that these were Rapid Assessments, and not full Risk Assessments, and as such, are meant to indicate a need for further study, and do not represent a legal description of these trees risk levels. These assessments are not legally binding and are not intended to be utilized as evidence in a court of law. They serve primarily for internal record keeping, and a means of locating trees which require more detailed study before making a final decision as to management strategy. Since the risk level field is part of the data collection parameters for the Rantoul inventory, it is recommended that Rantoul develop and implement a Tree Risk Assessment Policy so that consistency and accountability is successfully achieved.



As illustrated in the chart above, the vast majority of Rantoul trees were found to have no observable risk level. The 23 trees that fell into the substantial risk level category should receive a Level 2 Risk Assessment and/or mitigating action. Any tree found to pose an elevated risk level should be monitored and/or inspected by Rantoul and a threshold of risk tolerance be established. Some of elevated risk level trees may also be considered for a Level 2 Risk Assessment and/or mitigating action. Going forward, any tree assigned to the critical risk level category should receive immediate mitigating actions. Great Lakes Urban Forestry Management would be pleased to assist Rantoul in any aspect of developing or managing a Tree Risk Assessment Policy or performing Level 2 Basic Risk Assessments or Level 3 Advanced Risk Assessments.

Diversity Statistics



The “20-10-5” rule has been adopted as a Best Management Practice in Urban Forestry. This rule simply states that a tree population should ideally have no more than 20% of any single Family, no more than 10% of any single Genus, and no more than 5% of any single species. As we have learned from the EAB infestation and Dutch Elm Disease, when a pest or pathogen that attacks specific tree genera is introduced into a region where those specific genera are overrepresented, tree populations can take a devastating hit. That being said, we have included 10% Genus threshold and 5% species threshold lines on the diversity analysis graph above.

Maple species account for almost 38% of Rantoul’s tree population. It is quite common for Maple species to be the highest represented species in municipalities and in other urban settings because they are typically an adaptable and hardy shade tree. However, if a pest or pathogen that attacks only the Maple genus were introduced into the region, Rantoul could potentially lose nearly 40% of its tree population. It’s important to mention that much of the Maple population is aging and in overall poor condition. Going forward and with the help of the Urban Forestry Management Plan, Rantoul will need to focus on reducing the number of poor condition and over-mature Maples. It is also recommended that the Village limit any new plantings of Maples. Crabapple, Sycamore, and Honeylocust trees also slightly exceed the recommended 5% species threshold, but this is not a major concern at this time.

Additionally, the 152 trees in the “Undesirable spp” category include trees such as Ailanthus, Boxelder, Cottonwood, Siberian Elm, Russian Olive, Osage Orange, Black Cherry, Mulberry, White Poplar, and Willow spp. These trees are known for either being invasive or weak-wooded trees that often develop a variety of structural defects as they mature. For safety, aesthetic, and ecological reasons, it is recommended that the Village set a goal of gradually reducing the number of undesirable trees on its ROWs and Village owned properties and replanting them with a diverse set of tree species to increase overall diversity and improve tree population stability.

Although an in-depth diversity analysis is beyond the scope of this inventory executive summary, Rantoul can use the tables and graphs that have been provided as a reference when choosing species to plant in the future. The Urban Forestry Management Plan will provide a comprehensive analysis of the current population and a detailed plan for which tree species to plant going forward. Proper planning will help Rantoul protect the investment in each new tree

and to create a future tree population that is more resilient and diverse than the current one. The table below, which lists species that each account for less than 1% of the total tree population, can also be used as a resource when choosing future species to plant. This list is limited and does not represent the other options that are not present in the Rantoul population but are available for planting in this region. Going forward, Rantoul should plan to take a more targeted approach when it comes to choosing new species to plant on its parkways and focus on planting a wider variety of tree species and genera.

BALDCYPRESS	25	EASTERN REDCEDAR	9	UNKNOWN	2
AMERICAN REDBUD	22	ARBOR VITAE	6	BEECH-EUROPEAN	1
KENTUCKY COFFEETREE	19	CATALPA	5	BLACKGUM	1
GINKGO	18	LILAC-TREE	5	CHESTNUT-CHINESE	1
HAWTHORN-SPP	16	CHERRY-SPP	3	DAWN REDWOOD	1
TULIPTREE	15	HICKORY-PECAN	3	HARDY RUBBERTREE	1
WALNUT-BLACK	15	ALDER-SPP	2	HICKORY-BITTERNUT	1
SERVICEBERRY-SPP	12	AMUR CORKTREE	2	HICKORY-SHAGBARK	1
SWEETGUM	12	BEECH-AMERICAN	2	ROSE OF SHARON	1
MAGNOLIA-SPP	10	BEECH-SPP	2	SASSAFRAS	1
AMERICAN HORNBEAM	9	BUCKEYE-OHIO	2	SMOKETREE	1
DOGWOOD-SPP	9	GOLDEN RAINTREE	2	SUMAC	1
DOUGLAS FIR	9	IRONWOOD	2	ZELKOVA	1

Conclusion

It has been a pleasure for Great Lakes Urban Forestry Management to provide this tree inventory update, data analysis, executive summary to the Village of Rantoul. The Village of Rantoul, along with Great Lakes Urban Forestry Management, will use the tree data to develop an Urban Forestry Management Plan, which will create long-term strategies and budgets for tree planting and management in Rantoul. We look forward to the opportunity to partner with Rantoul to assist in Urban Forestry Management Planning, perform Tree Risk Assessments, or assist in any other tree or natural resource related initiatives. Thank you for the opportunity to partner with you, and we look forward to continuing to serve as your Tree, Natural Resource, and Geospatial Data experts.



Appendix A: All Trees

The table below is an itemized list of all tree species present in the Rantoul tree population, along with average DBH (in inches) and average condition rating for each species. The average condition ratings combined with higher average DBHs can be used as a guide as to what species are growing well in Rantoul.

SPECIES	COUNT	% OF TOTAL	AVG DBH	AVG COND
MAPLE-NORWAY	388	12.27%	16.76	3.21
APPLE-CRAB SPP	259	8.19%	11.00	3.37
MAPLE-SILVER	247	7.81%	30.47	3.32
MAPLE-SUGAR	239	7.56%	16.27	3.01
MAPLE-RED	215	6.80%	11.46	3.08
HONEYLOCUST	190	6.01%	20.83	3.41
SYCAMORE	189	5.98%	30.48	3.07
LINDEN-LITTLELEAF	145	4.59%	15.38	3.06
ELM-SIBERIAN	96	3.04%	31.11	3.79
OAK-RED	90	2.85%	17.99	2.73
HACKBERRY	77	2.44%	17.17	3.13
OAK-SWAMP WHITE	77	2.44%	10.79	2.57
SPRUCE-BLUE	73	2.31%	15.29	3.11
PINE-WHITE	70	2.21%	16.47	2.89
MAPLE-AUTUMN BLAZE	62	1.96%	12.71	2.98
OAK-PIN	57	1.80%	29.74	3.47
OAK-WHITE	50	1.58%	19.04	2.92
SPRUCE-NORWAY	39	1.23%	21.26	2.69
PEAR-CALLERY	36	1.14%	14.92	3.39
ELM-HYBRID	35	1.11%	7.29	2.94
BIRCH-RIVER	26	0.82%	20.92	3.08
MULBERRY-SPP	26	0.82%	28.19	3.62
BALDCYPRESS	25	0.79%	11.04	2.52
MAPLE-AMUR	25	0.79%	13.16	3.44
ASH-GREEN	23	0.73%	11.35	3.96
AMERICAN REDBUD	22	0.70%	10.36	3.14
ASH-WHITE	19	0.60%	11.05	4.26
KENTUCKY COFFEETREE	19	0.60%	7.95	2.84
LINDEN-AMERICAN	19	0.60%	23.11	2.74
GINKGO	18	0.57%	9.17	3.06
OAK-BURR	17	0.54%	15.18	2.24
HAWTHORN-SPP	16	0.51%	8.00	2.94
TULIPTREE	15	0.47%	17.27	2.93
WALNUT-BLACK	15	0.47%	19.07	2.73
PINE-AUSTRIAN	14	0.44%	20.57	3.36
SERVICEBERRY-SPP	12	0.38%	4.58	3.08
SWEETGUM	12	0.38%	22.67	3.25
MAPLE-JAPANESE	11	0.35%	5.91	3.09

BIRCH-WHITE	10	0.32%	15.90	3.50
MAGNOLIA-SPP	10	0.32%	11.30	3.10
AMERICAN HORNBEAM	9	0.28%	6.11	3.00
DOGWOOD-SPP	9	0.28%	5.33	3.00
DOUGLAS FIR	9	0.28%	11.33	3.00
EASTERN REDCEDAR	9	0.28%	15.22	3.33
ELM-CHINESE	8	0.25%	13.38	2.63
COTTONWOOD	7	0.22%	20.14	3.71
MAPLE-BLACK	7	0.22%	24.14	3.29
WILLOW-SPP	7	0.22%	17.86	3.29
ARBOR VITAE	6	0.19%	14.00	3.00
CHERRY-BLACK	6	0.19%	25.67	3.33
LONDON PLANETREE	6	0.19%	3.17	3.50
OAK-SCARLET	6	0.19%	5.17	3.17
APPLE-EDIBLE	5	0.16%	9.20	3.20
CATALPA	5	0.16%	15.60	3.40
ELM-AMERICAN	5	0.16%	32.60	3.20
LILAC-TREE	5	0.16%	6.00	3.00
BIRCH-GRAY	4	0.13%	17.00	4.00
OAK-SHINGLE	4	0.13%	13.50	2.50
PINE-RED	4	0.13%	16.25	3.25
AILANTHUS	3	0.09%	26.00	4.00
BOXELDER	3	0.09%	26.00	4.00
CHERRY-SPP	3	0.09%	9.00	3.00
HICKORY-PECAN	3	0.09%	15.67	3.33
SPRUCE-WHITE	3	0.09%	12.00	3.00
ALDER-SPP	2	0.06%	12.00	2.50
AMUR CORKTREE	2	0.06%	14.50	2.50
BEECH-AMERICAN	2	0.06%	6.00	4.00
BEECH-SPP	2	0.06%	8.00	4.50
BUCKEYE-OHIO	2	0.06%	5.50	3.00
GOLDEN RAINTREE	2	0.06%	10.00	3.00
IRONWOOD	2	0.06%	9.00	2.50
MAPLE-HEDGE	2	0.06%	2.00	4.00
OAK-ENGLISH	2	0.06%	11.50	3.50
UNKNOWN	2	0.06%	4.50	3.00
BEECH-EUROPEAN	1	0.03%	22.00	4.00
BLACKGUM	1	0.03%	5.00	3.00
CHESTNUT-CHINESE	1	0.03%	28.00	3.00
DAWN REDWOOD	1	0.03%	15.00	2.00
HARDY RUBBERTREE	1	0.03%	14.00	3.00
HICKORY-BITTERNUT	1	0.03%	18.00	3.00
HICKORY-SHAGBARK	1	0.03%	16.00	3.00
MAPLE-PAPERBARK	1	0.03%	5.00	3.00
OAK-SPP	1	0.03%	32.00	5.00

OSAGE ORANGE	1	0.03%	25.00	4.00
POPLAR-WHITE	1	0.03%	12.00	5.00
ROSE OF SHARON	1	0.03%	2.00	3.00
RUSSIAN OLIVE	1	0.03%	19.00	4.00
SASSAFRAS	1	0.03%	10.00	3.00
SMOKETREE	1	0.03%	8.00	3.00
SUMAC	1	0.03%	4.00	3.00
WILLOW-WEeping	1	0.03%	18.00	3.00
ZELKOVA	1	0.03%	3.00	3.00



**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Authorize and Approve the Contract with Deem Landscaping, Inc for landscape installation and maintenance in the amount of \$28,385.00.	DEPARTMENT: Recreation
DATE: March 1, 2022	AMOUNT: \$28,385.00
ATTACHMENTS: 1. 2022 Rantoul annuals revised_ 2. Flower Layouts	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This agenda item provides for a contract with Deem Landscaping Inc. for landscape installation and maintenance for the 2022 season. The Village advertised an RFP for landscape installation and maintenance on January 10, 2020, and received only one proposal back from Deem Landscaping. Within the RFP, the Village reserved the right to extend the contract term for an additional year without issuing an additional RFP. Given that only one proposal was initially received for the last RFP, and the opinion that Deem Landscaping Inc has provided a quality product and services to the Village, we are recommending an additional one-year contract extension for the 2022 season with Deem Landscaping Inc to provide landscape installation and maintenance services. The scope of work is listed within your board packet, but in short, it includes the overall installation and maintenance of 33 plant beds and 30 free standing planters. The proposed contract is for \$28,385.00 plus \$140 per occurrence for watering and de-weeding on an as-needed basis. Notes: • Contract Period (included in FY 23 budget): April 25, 2022 – November 25, 2022 • Paid on a monthly basis: \$4,055.00 plus \$140 per occurrence for watering and de-weeding on an as-needed basis Benefits: • Efficiency in installation and maintenance	

- Professional design

Overall, since we have contracted with Deem Landscaping Inc, the beautification and overall image of the flower beds and landscaped areas have been very well received and noticed by the public.

RECOMMENDED ACTION: Approve the contract with Deem Landscaping, Inc for landscape installation and maintenance in the amount of \$28,385.00 plus \$140 per occurrence for watering and de-weeding. We request that this contract be approved so that the contractor can begin ordering necessary plant materials for the 2022 season, and this will give us the ability to include this in our budget preparations.

DEPARTMENT HEAD APPROVAL Luke A. Humphrey	VILLAGE ADMINISTRATOR Scott Eisenhauer
--	---

Deem Landscaping, Inc.

Complete Landscaping Service

2052 Co Rd 1800E. Urbana, IL 61802 (217) 369-7119

Email: deemd1@yahoo.com www.deemlandscaping.com



VRNTL-20-R-06

Landscape Installation and Maintenance

Village of Rantoul

Luke Humphrey, Recreation Director

100E Flessner Rantoul, IL 61866

Proposal prepared by Deem Landscaping, Inc The information contained in this Proposal is intended only for the use of the individual(s) or entity names above. You are hereby Notified that any dissemination, distribution or copying of this proposal or plans is strictly prohibited.

The Purpose of this proposal is to make the areas listed by the village of Rantoul appealing to the eye and beatify the town at the local points of interest.

The Service period in this proposal is from April 25th 2022 through November 25th 2022. All beds to receive a one-time cleaning in spring around beginning of contract date. Listed below is task or items that will be performed on 33 beds and 30 freestanding planters

- New bed edges cut if needed
- Trim all shrubs and clean existing perennials
- Work areas with small tiller to loosen soil
- Installation of garden compost in annual planting areas
- Installation of slow-release fertilizer
- Installation of annuals flowers around May 15th
- Maintain 3 new beds by Substation, PowerStation, and Garden bed park for weed free areas
- New Annual beds added for 2022
 - Sports Complex entrance
 - Ground level bed for Village office

Fall Planting

- The 30 Freestanding planters will have one annual switch to a fall theme around Mid-October

Deem Landscaping, Inc.

Complete Landscaping Service

2052 Co Rd 1800E. Urbana, IL 61802 (217) 369-7119

Email: deemd1@yahoo.com www.deemlandscaping.com



Proposal 2022	4-25-2022 to 11-25-2022
Labor	\$15,630.00
Annual Cost	\$ 6,095.00
Watering Cost*	Per Occurrence
Mulch Cost	\$ 2,500.00
Planter Cost	\$ 2,000.00
Perennial Plants	\$ 2,160.00
Total Project Cost	\$ 28,385.00

*Watering Cost is based on per occurrence rate of \$ 140.00
Water and hydrant meter to be supplied by Village of Rantoul

Weekly Maintenance to be preformed in the service period

- Watering new plantings to obtain maximum growth and healthy plants
- Weeding, and trash removal in beds as person waters
- Once monthly watering will be treated with plant fertilizer

Fall Clean up and plant removal

- Removal of all annual plants and disposal off site
- Trim any perennials as needed
- Trim any shrubs as needed
- Removal of all leaves in the service area

New Planting areas at Forum and Youth Center

- Prepare beds as needed
- Installation new plant material
- Installation of Brick Border as needed on bed edge
- Installation of Enhanced brown mulch
- New plantings will be watered as needed till self-sustainable.

Deem Landscaping, Inc.

Complete Landscaping Service

2052 Co Rd 1800E. Urbana, IL 61802 (217) 369-7119

Email: deemd1@yahoo.com www.deemlandscaping.com



Thank you for your time and consideration and look forward to working together to beautify the Village of Rantoul

Sincerely,

A handwritten signature in dark ink, appearing to read 'Derek Deem'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Derek Deem

Deem Landscaping, Inc

Derek@deemlandscaping.com

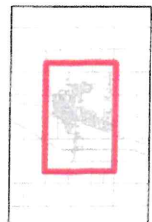
(217)369-7119

Village of Rantoul

RANTOUL FLOWER BED LOCATIONS

Village of Rantoul
Public Works Dept.
200 W. Grove Avenue
Rantoul, IL 61866
(217) 892-6526

0 430 860 1 690 2 520 Feet



12/05/2018

©2017 Aerial Image provided by
Chicago County GIS Consortium

NOTE: This product was prepared for informational
and/or reference purposes. The Village of Rantoul
does not warrant the accuracy, completeness, or
timeliness of the information provided.

Downtown Area(Sangamon/Garrard):

12 Beds (7 cornerbeds, 1 sidewalk bed,

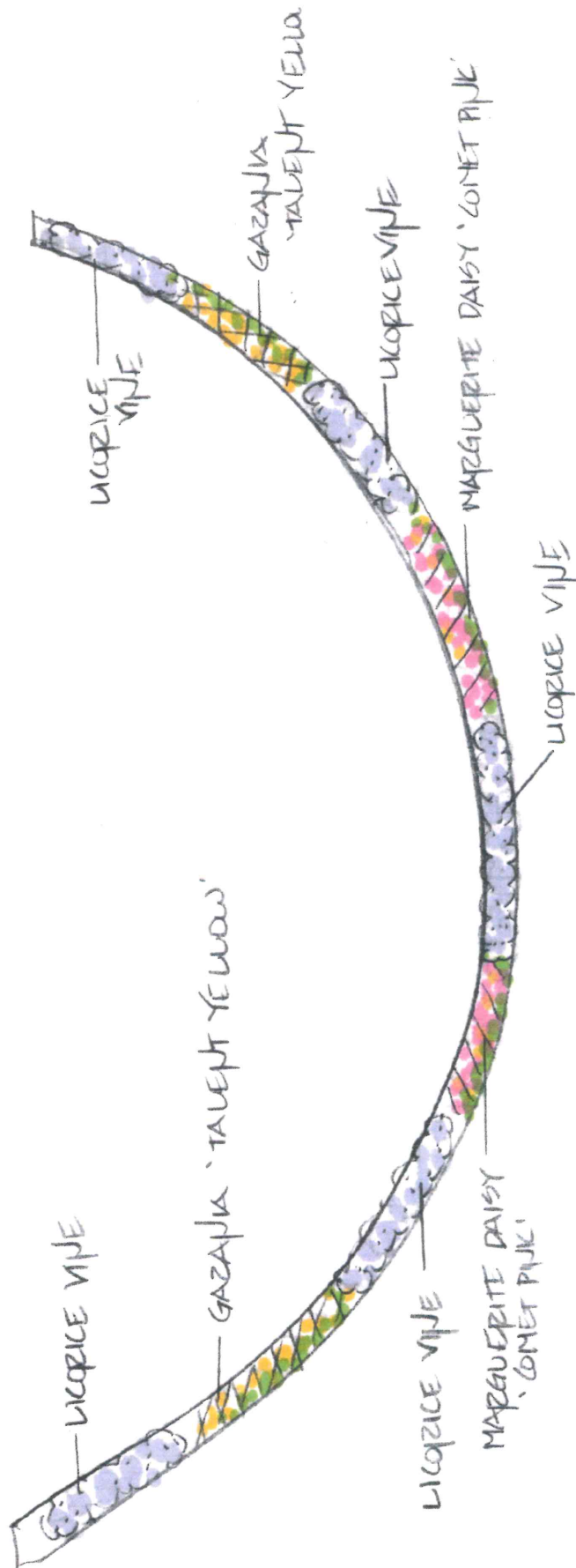
3 garden club beds, 1 Constitution Park bed)

ID #	Location Description	# Beds	Sq Ft	# Pots
1	North Rt 45 Entrance from Paxton	1	234	
2	Fire Station 1 - 101 E Grove Ave	1	75	
3	Purkinski Park - W Grove Ave			2
4	Rantoul Municipal Building - 333 S. Tanner St	3	120	4
5	West Rt 136 Entrance from I 57	1	300	
6	East Rt 136 Entrance from Gifford	1	153	
7	Fire Station 2 - 500 N Maplewood Dr	1	75	
8	Youth Center - 1305 Country Club Ln	1	272	2
9	Rantoul Business Center - 601 S Century	1	120	9
10	Rantoul Parade Grounds - Corner Berman and Century	1	234	
11	Aquatic Center - 320 W Hessler Ave	1		8
12	From Fitness Center - 200 W Hessler Ave	2	400	7
13	Rantoul Public Library - 106 W Hessler Ave	1	50	
14	Rantoul Recreation Center - 100 W Hessler Ave	1	50	2
15	Bill Seebler Soccer Complex - Enterprise Dr	1	260	
16	Bill Seebler Soccer Complex - Doolittle & Wheat	1	260	
17	AT&T Building - 1 Aviation Center Dr	1	256	
18	Illini Rock - Corner of Wheat and South Rt 45	1	100	
19	South Rt 45 Entrance - Corner Chandler and South Rt 45	1	300	

20. Maplewood

VILLAGE OF RAYTOWN

BOARD ROOM



Notice and Disclaimer for Jessica Lopez Designs

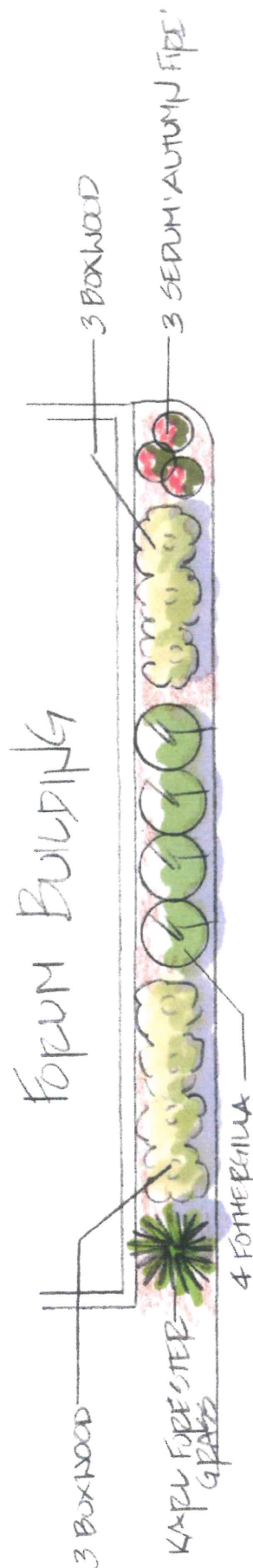
- * This landscape plan is for plant selection and suggested placement only.
- * The location of pavings, walking paths, stone steps, patios, fire pits and other hardscape items are only suggestions. Their actual installation and final location should be reviewed by a Landscape Architect or Engineer to ensure that proper safety precautions are observed.
- * It is your responsibility and that of the Landscape Installer to ensure that all landscape plans and installations meet all code and permitting requirements, comply with all applicable laws and that the installation does not interfere with



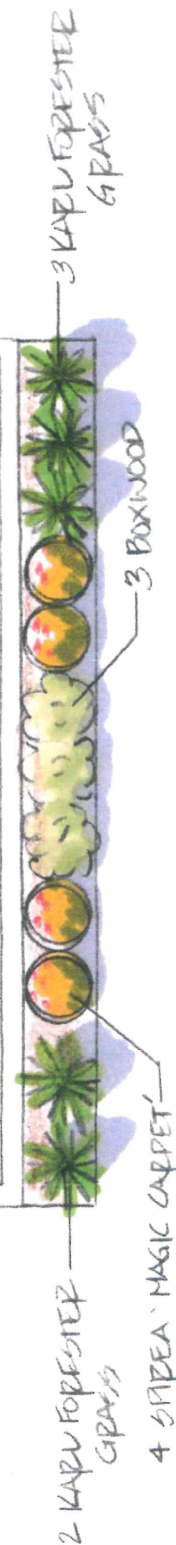
Deem Landscaping, Inc.

Complete Landscape Services
2002 Co Rd 1000, Elkhart, IN 46120 Call (317) 506-7119 Fax (317) 643-3407

Village of Kaptoul



YOUTH CENTER



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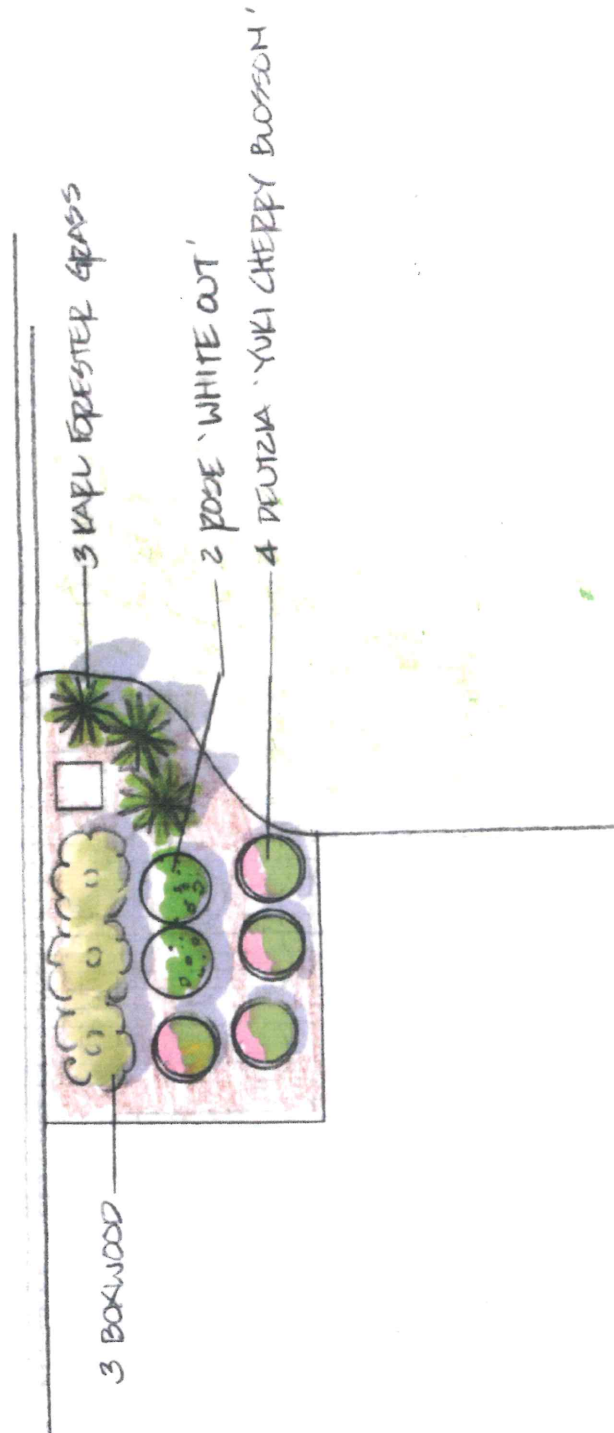
Deem Landscaping, Inc.

Complete Landscape Services

2882 Co Rd 1800E, Columbia, IL 61203 Call (217) 308-7119 Fax (217) 643-3487

VILLAGE OF RAYTOWN

FORUM



Jessica Lopez Design Studio

(217) 514-1515 * jessica_lopez47@hotmail.com

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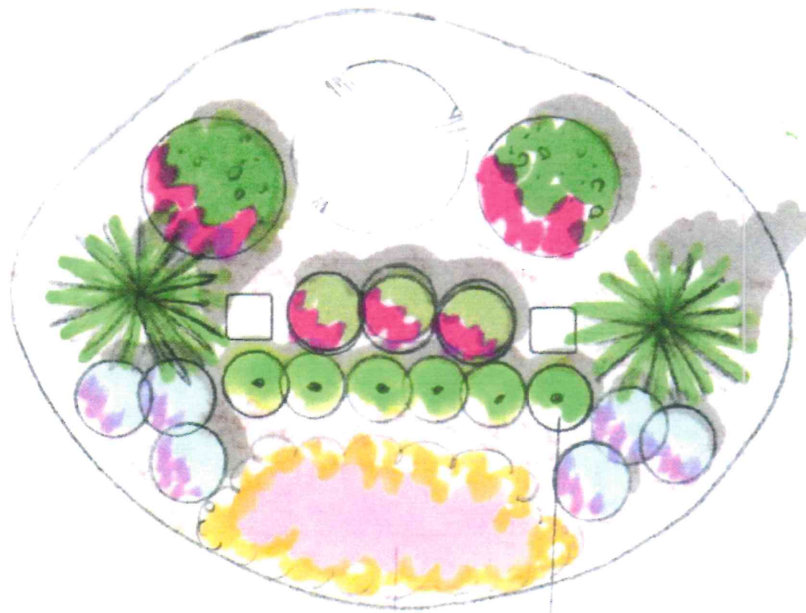


Deem Landscaping, Inc.

Complete Landscaping Services

2802 Cal Red Street, Chicago, IL 60608 Call (217) 360-7119 Fax (217) 643-1407

View of Pond



Pool Deck

to adjacent area

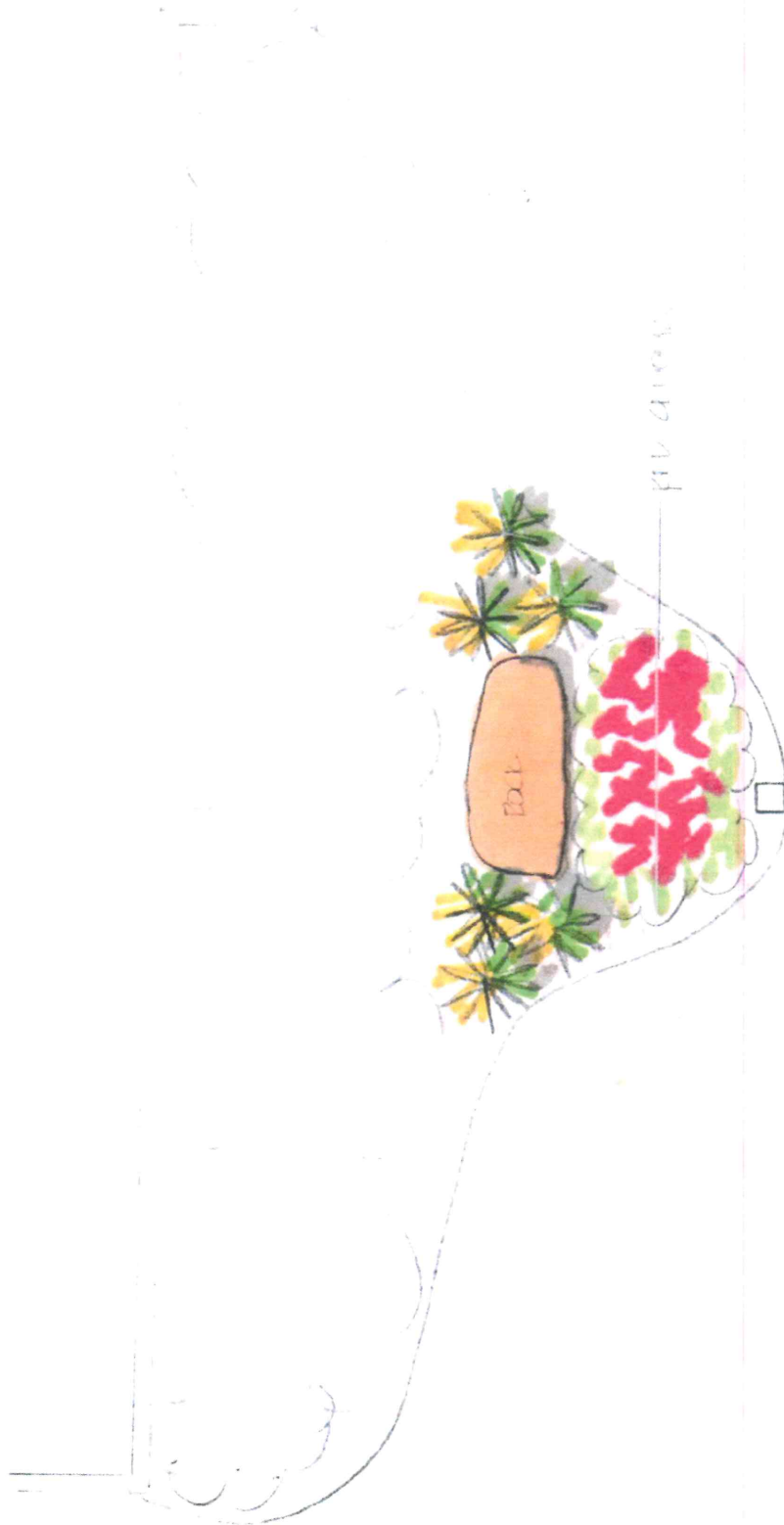
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- * It is your responsibility and that of the Landscape Installer to ensure that all landscape plans and installations meet all code and permitting requirements, comply with all applicable laws and that the installation does not interfere with utilities, drainage, easements, property line and other applicable restrictions.



Deem Landscaping, Inc.
 Complete Landscaping Services
 2002 E. 1st Street, Chicago, IL 60605 (773) 348-7119 Fax (773) 348-3887

Village of Kahl #2



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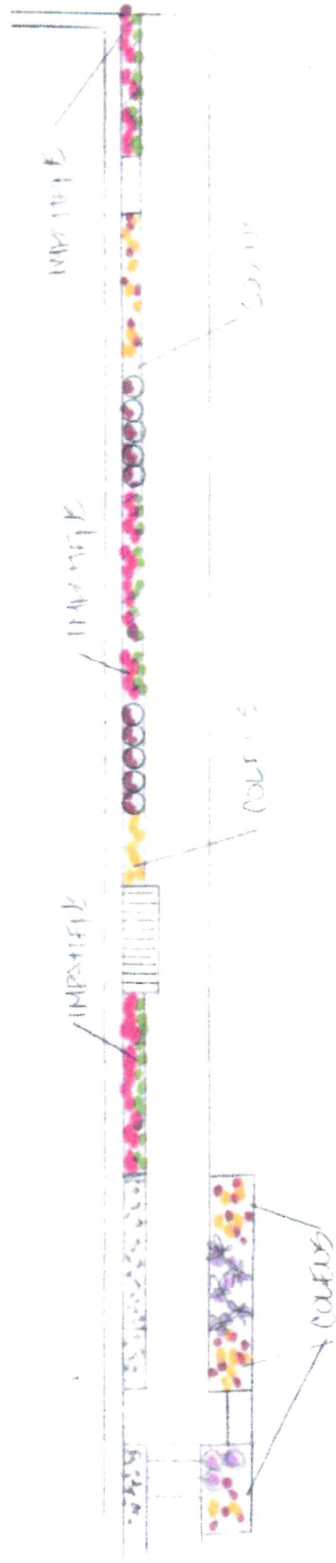


Deem Landscaping, Inc.
Complete Landscaping Service



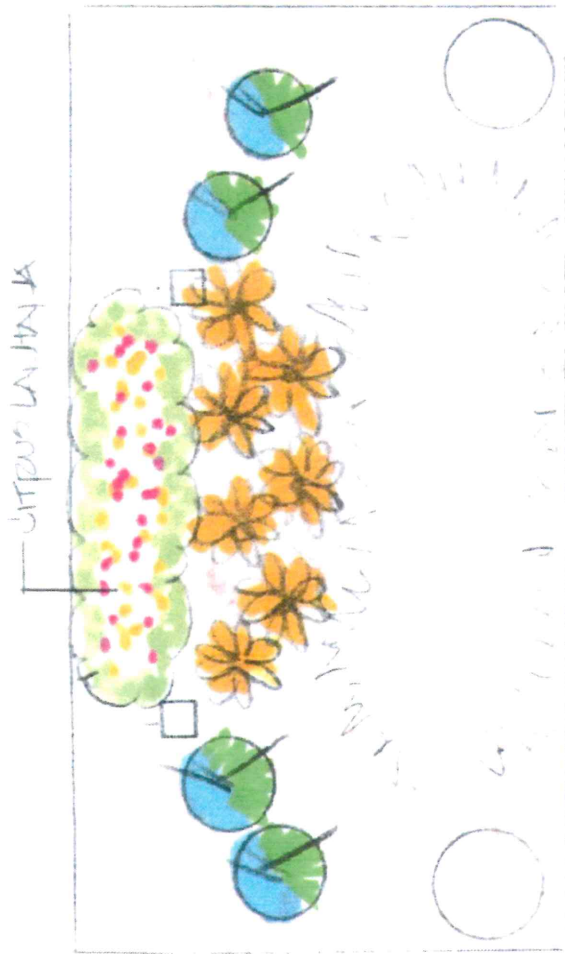
2000 E. Rd 1000, L. Kansas, IL 61803 Call (317) 506-7110 Fax (317) 643-3407

Village of Baytown #4

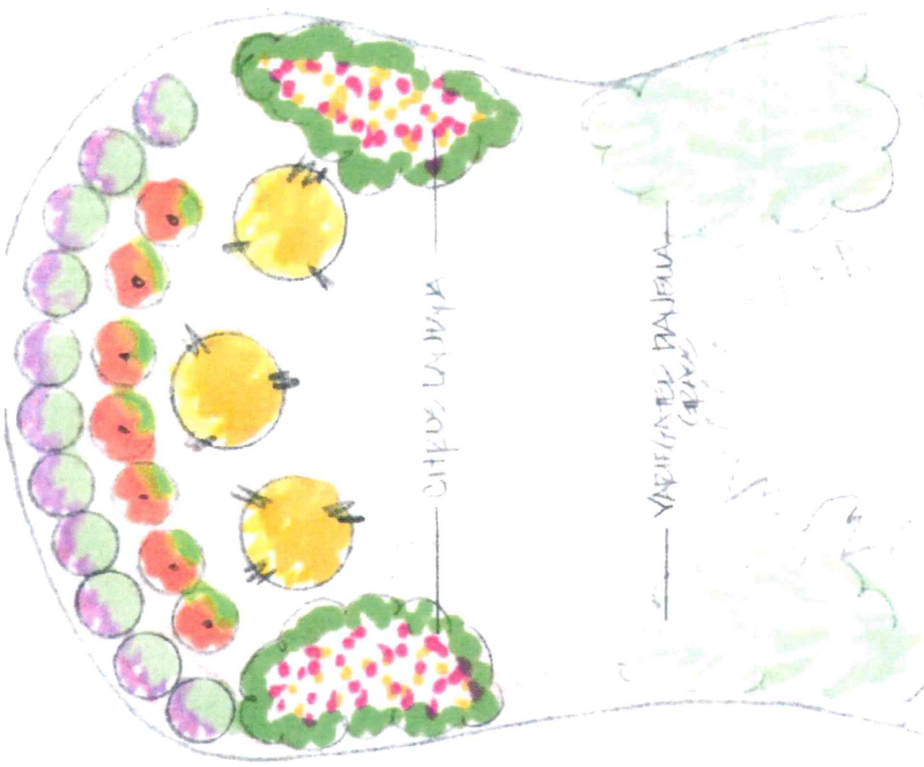


Deem Landscaping, Inc.
 Complete Landscape Services

2802 E. 9th Street, Baytown, TX 77520 Tel: (281) 346-7110 Fax: (281) 643-1087



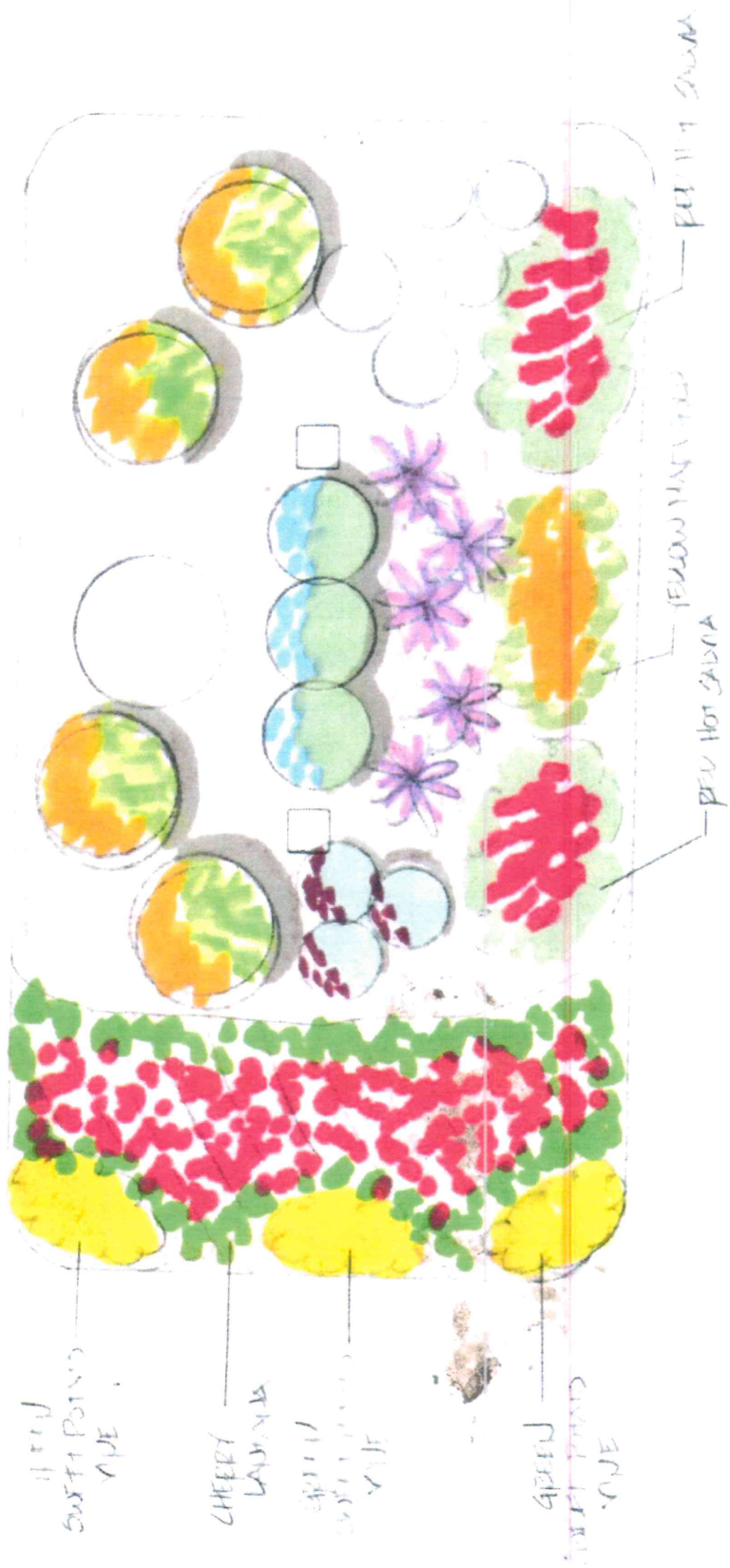
VIVALE OF BABYLON #4



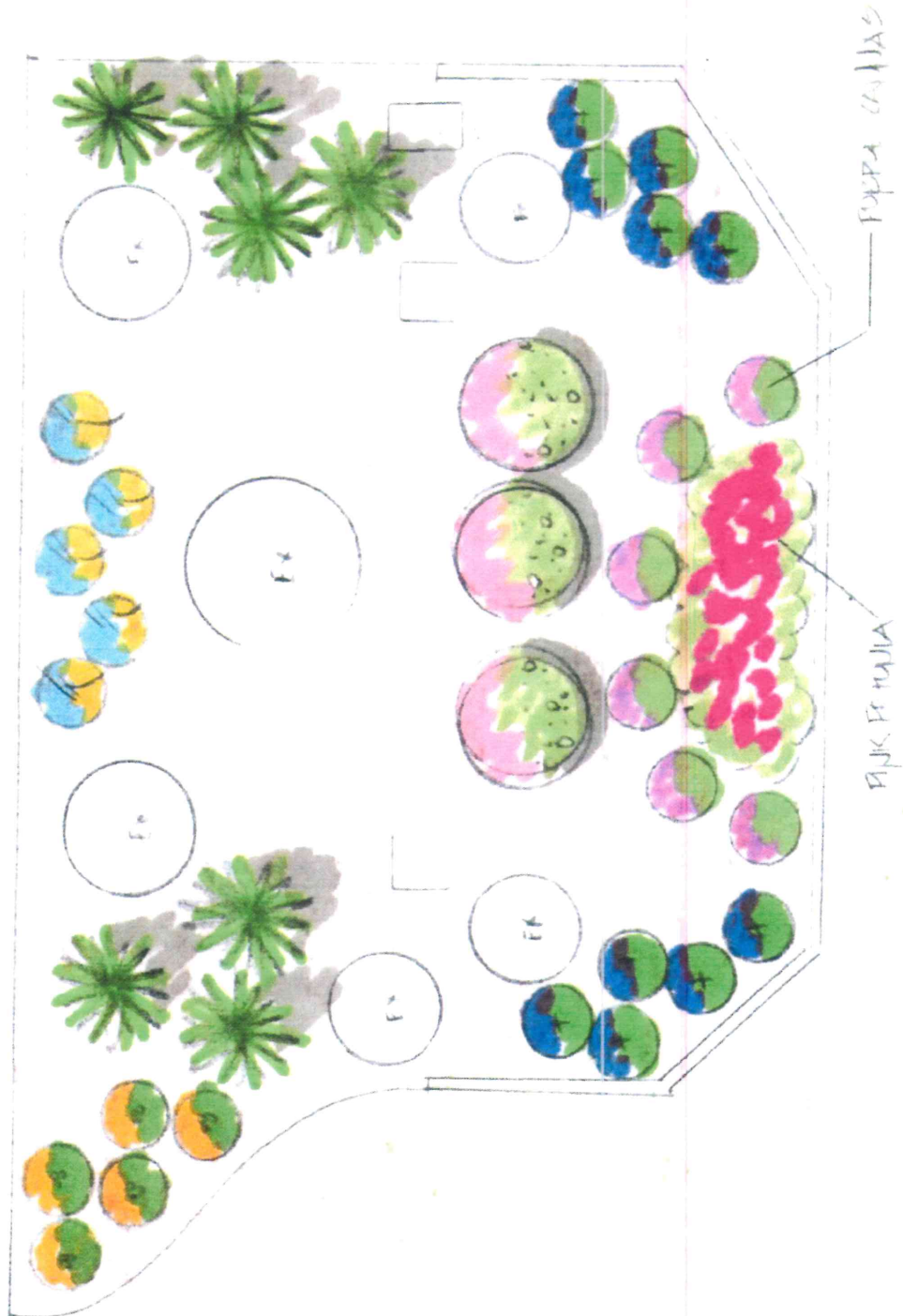
Deem Landscaping, Inc.
 Complete Landscaping Services

2009 Co Rd 1000, Litchfield, IL 62549 (618) 443-7110 Fax (618) 443-3497

Village of Babylon #5



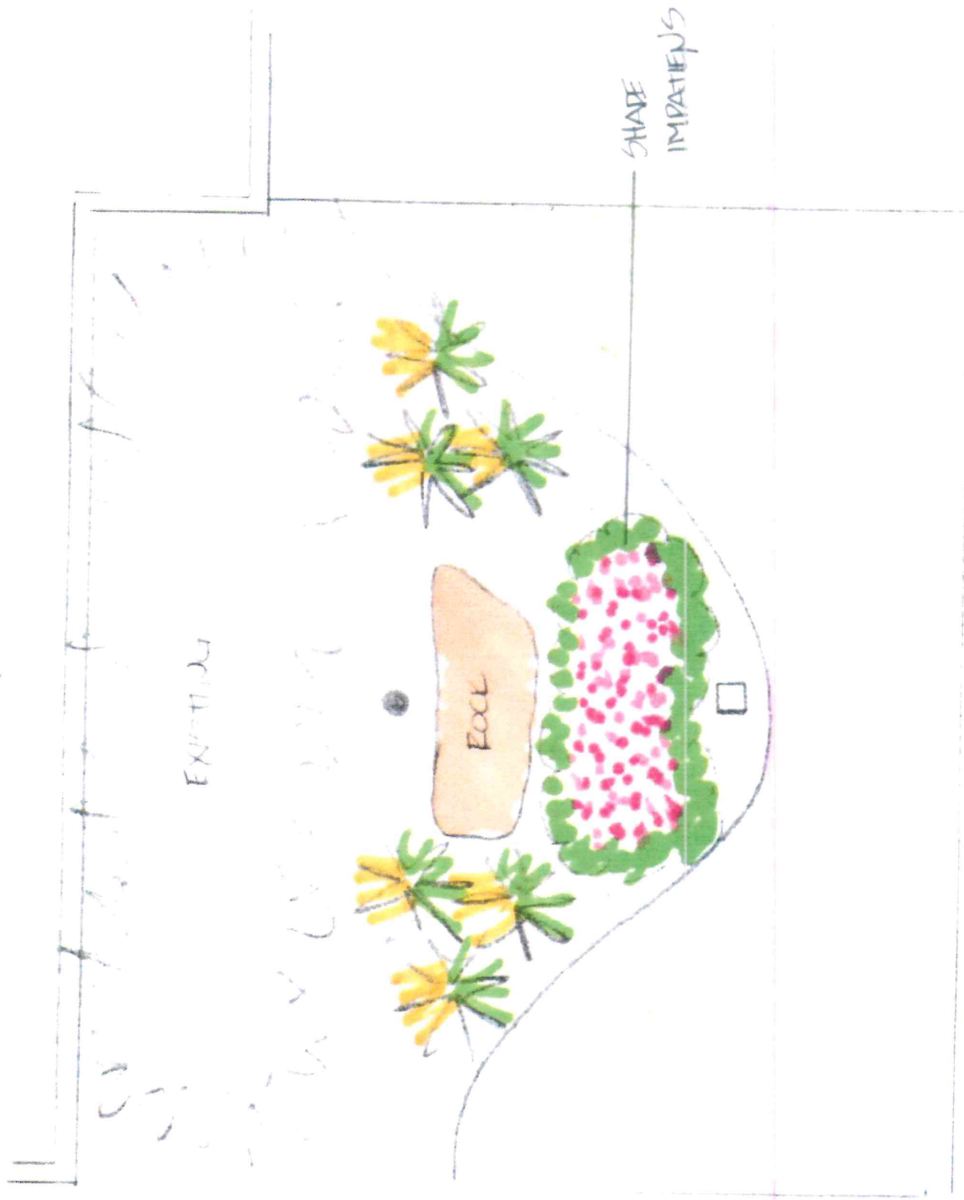
Village of Babylon #6



Deem Landscaping, Inc.
Complete Landscape Services

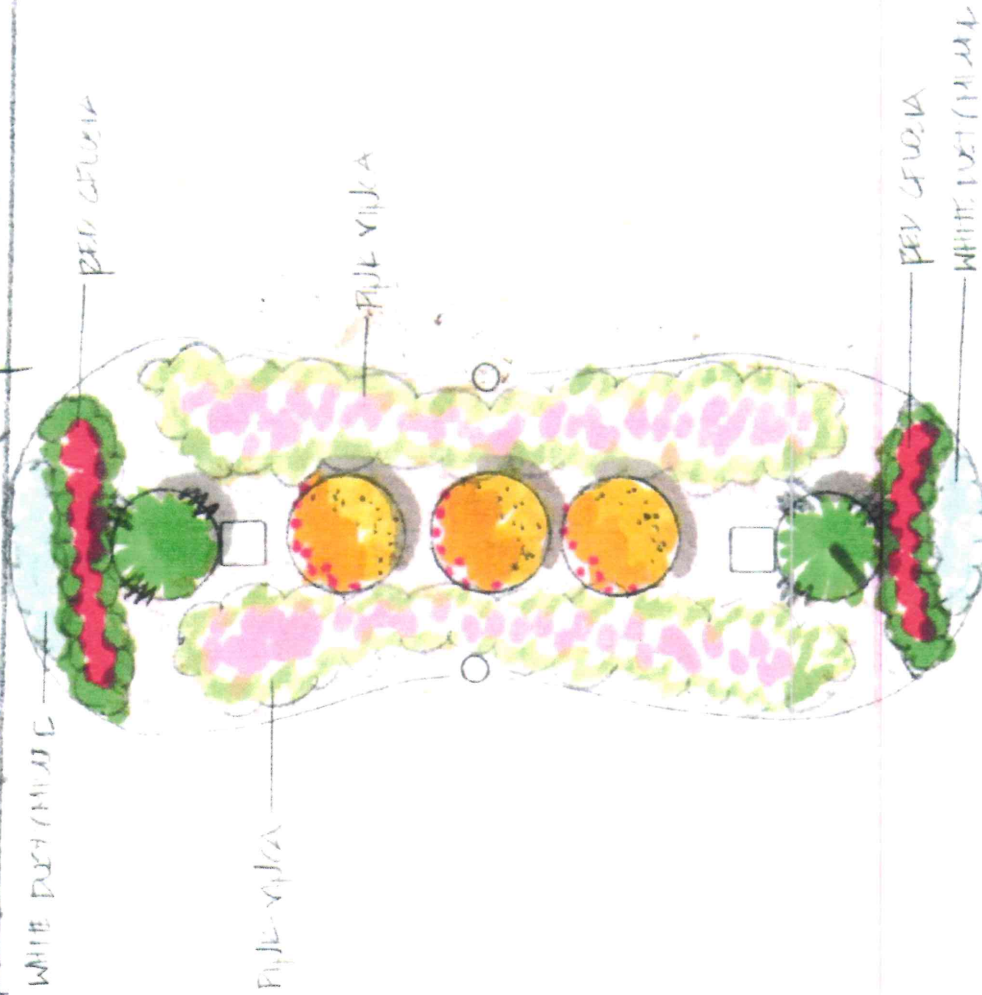
2003 S. Rd 1000E, Lithium, IL 60082 Cell (217) 566-7116 Fax (217) 643-4401

Village of Kachoul #7



0 2 4 8

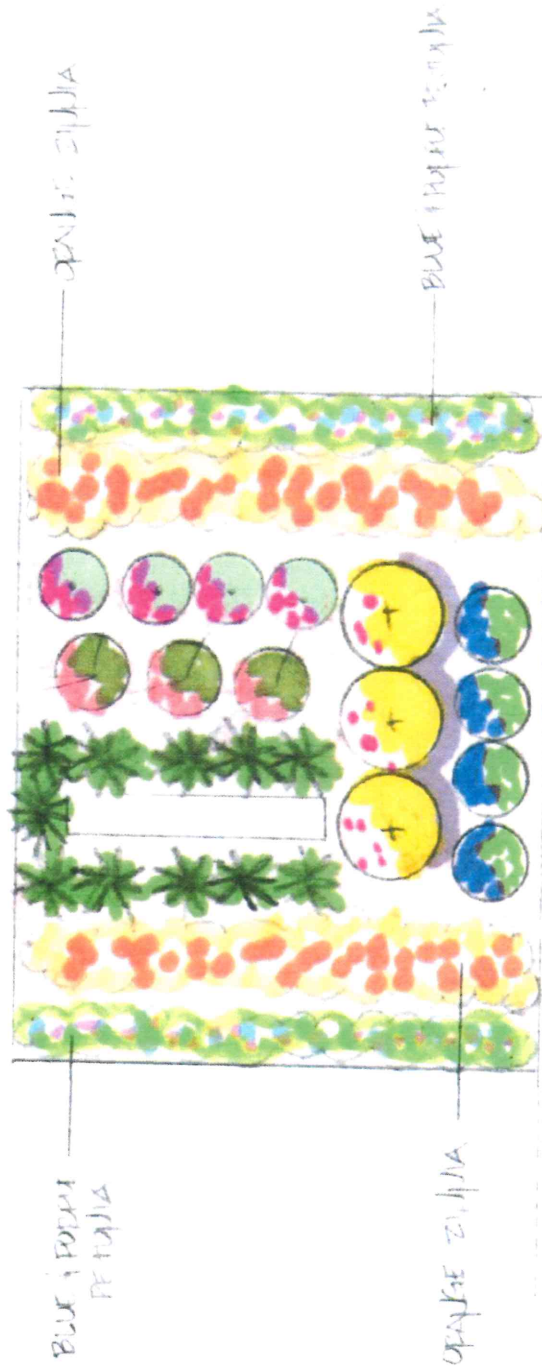
Village of Kiptou #8



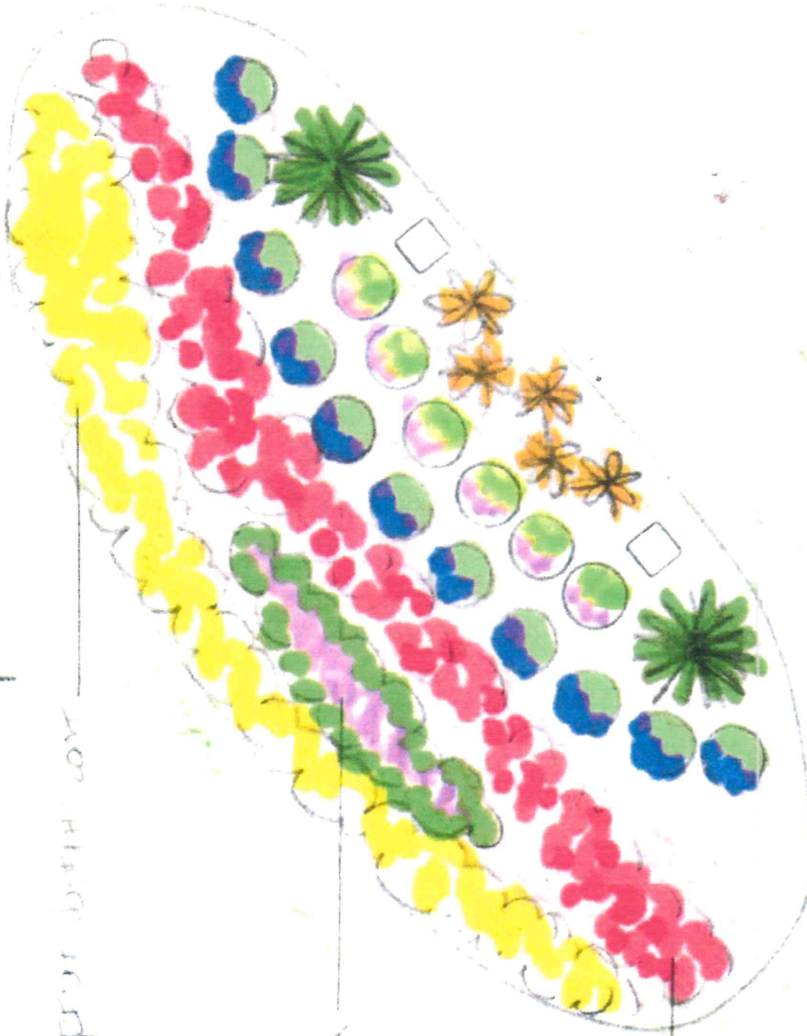
Deem Landscaping, Inc.

Complete Landscaping Services
 1000 E. 1st Street, Columbus, IL 61801 Call (217) 546-7119 Fax (217) 546-3407

Village of Naperville #9



VILLAGE OF RAPIDCOURT #10



CHARTERED WATER

PURPLE HYDRANGEA

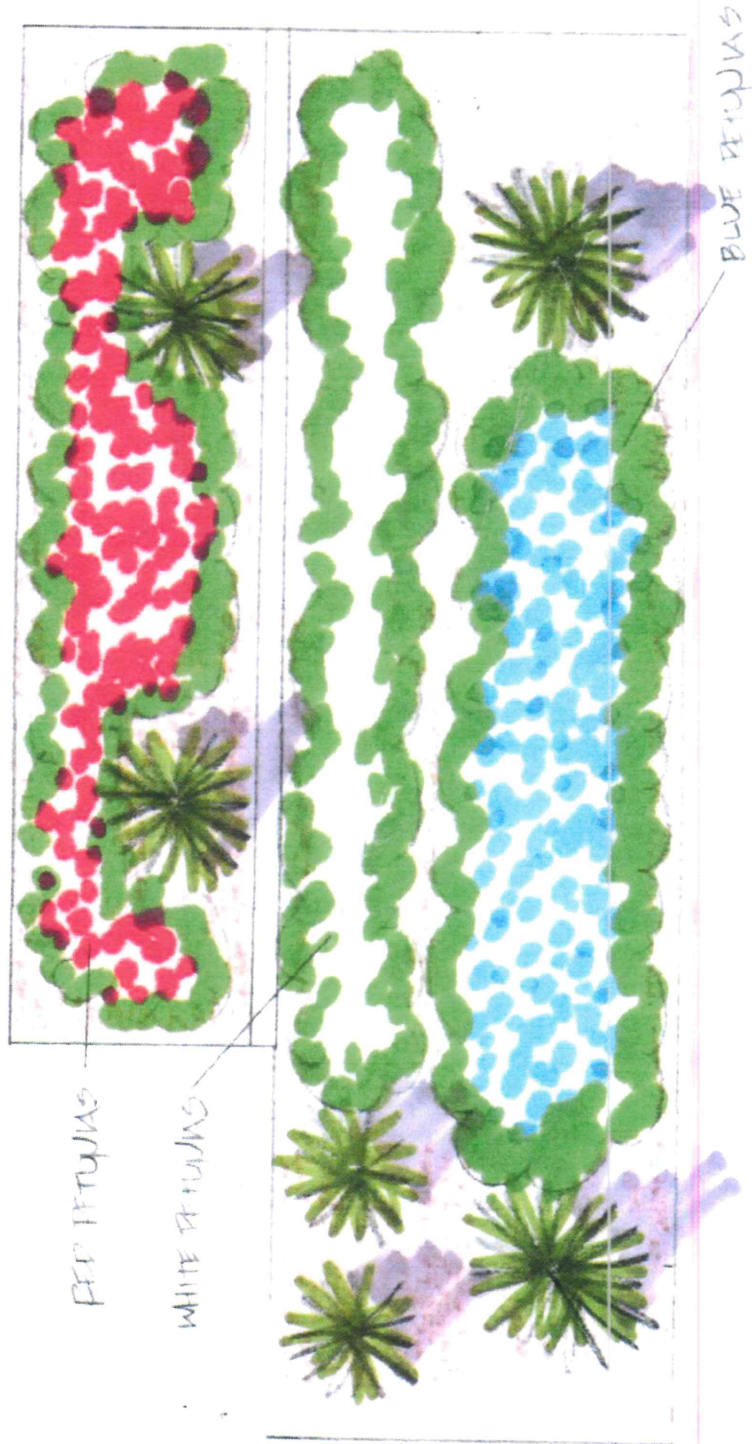
PURPLE PLANTAINS



Deem Landscaping, Inc.
 Complete Landscaping Services

2000 E. Rd 10000, Lehi, TN 37088 Call (615) 968-1119 Fax (615) 643-1487

Village of Babylon #11



Deem Landscaping, Inc.
 Complete Landscaping Service
 2002 E. 9th Street, Babylon, N.Y. 11702
 Tel: (516) 664-7119 Fax: (516) 664-3407



Village of Kankakee #12



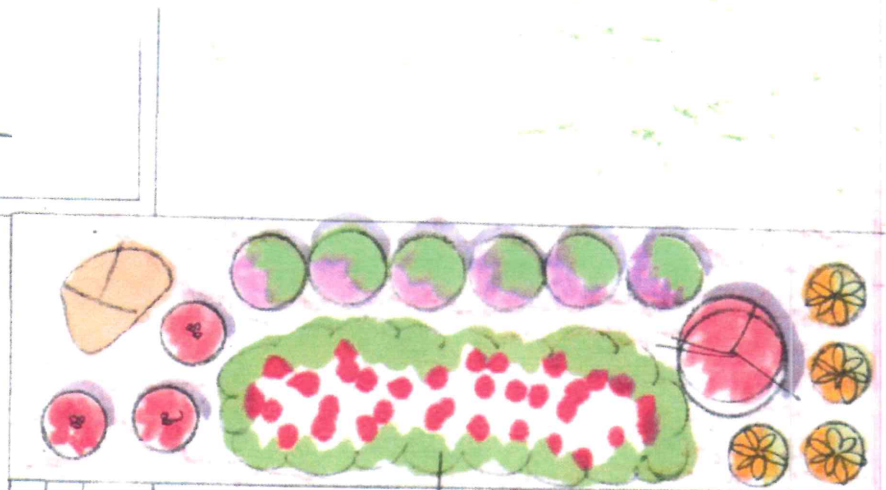
Deem Landscaping, Inc.

Complete Landscaping Service

2002 E. 1st Street, Kankakee, IL 60802 (815) 221-1111 Fax (815) 221-1112



Village of Kaptul #13



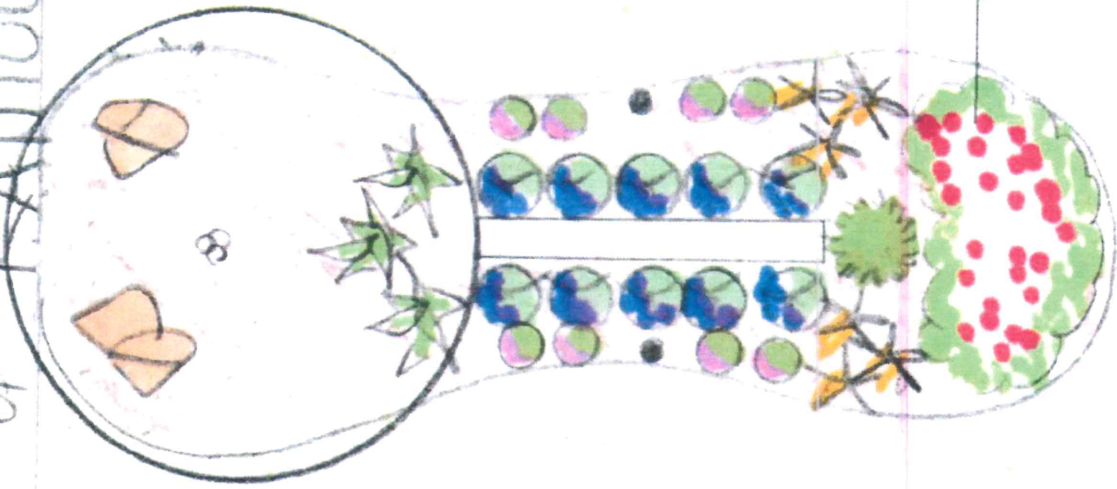
KEY WHITE
NEW GRASSES
INDENTERS



Deem Landscaping, Inc.
Complete Landscape Services

2003 Co Rd 10000, Lehigh, IL 61803 Tel (317) 546-7119 Fax (317) 646-3407

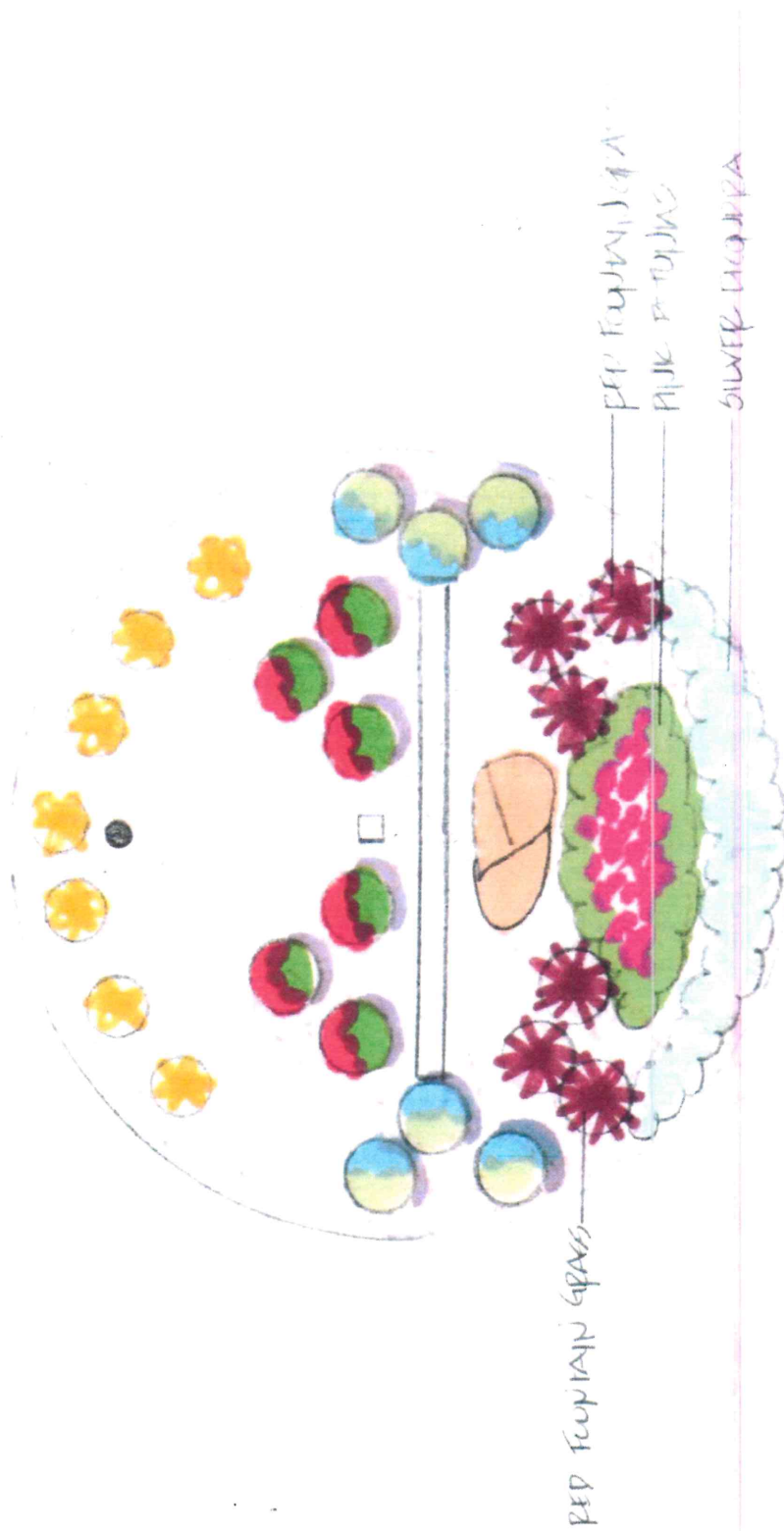
Village of Kaituma #14



planters in landscape



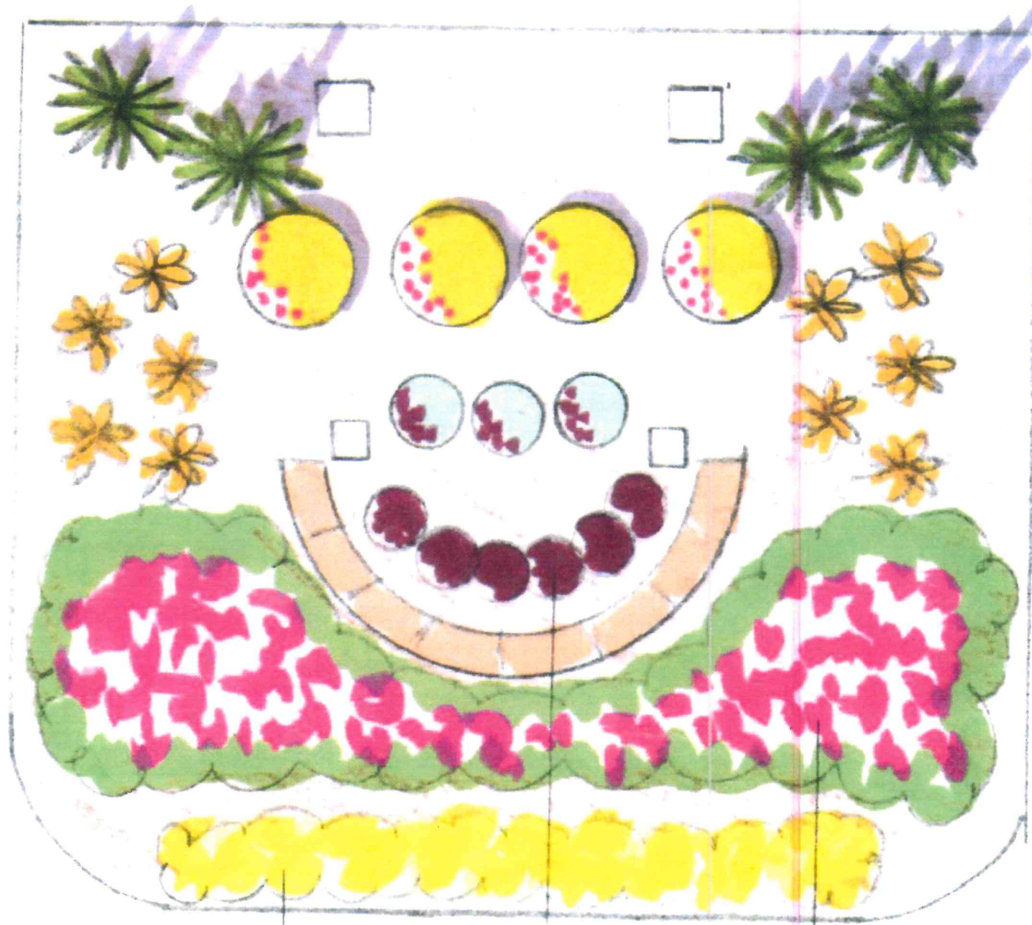
Village of Raptoul #17



Deem Landscaping, Inc.

Complete Landscaping Service
2003 Co Rd 1000E, Verona, IL 61083 Call (217) 366-5119 Fax (217) 643-3497

Village of Raptoul #19



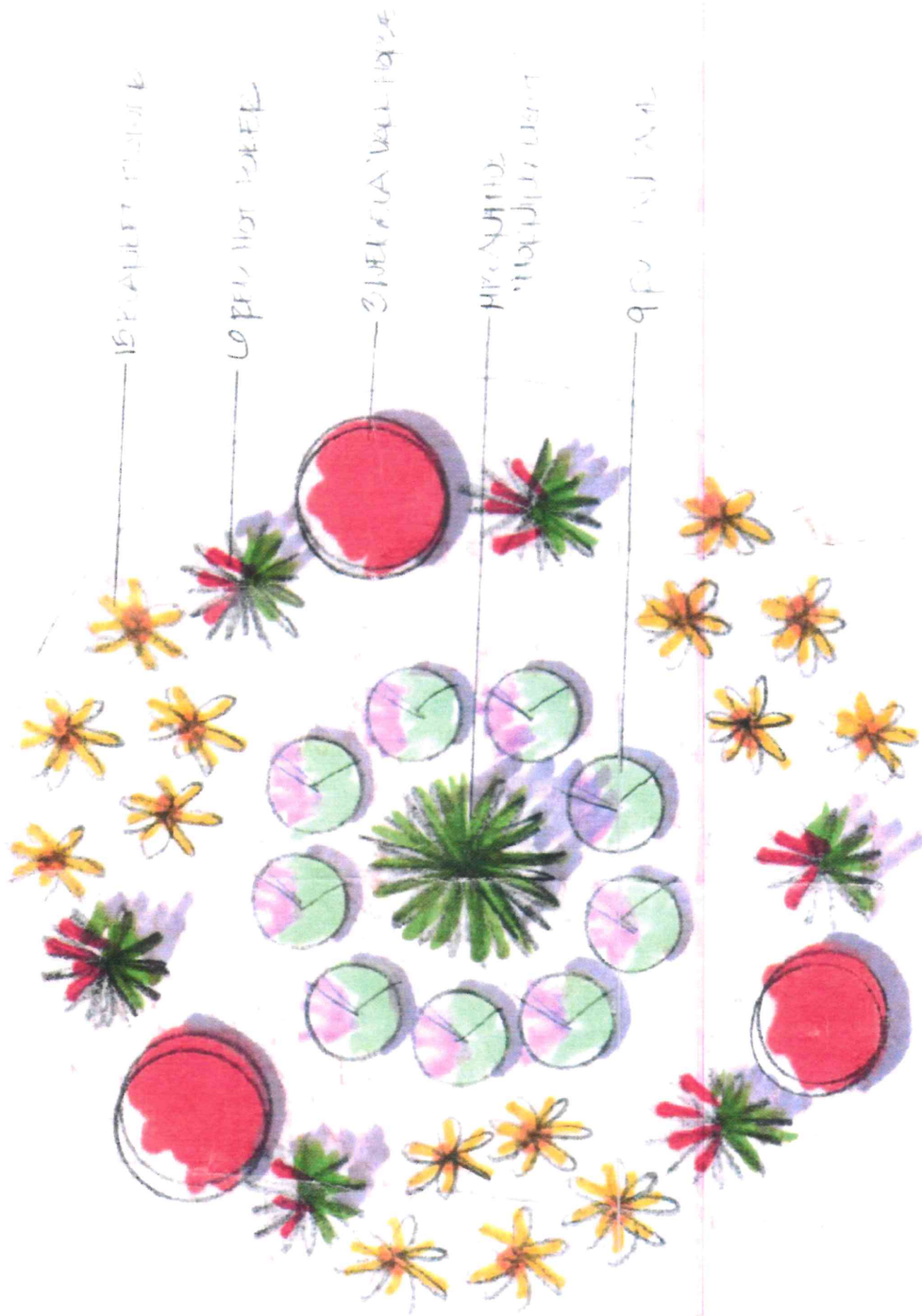
GREEN
GRASS
VIBE

ROSE
CALIX

RUE
TERUJA



Continuation Page # 22

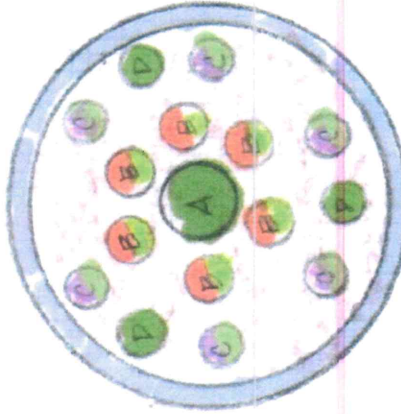
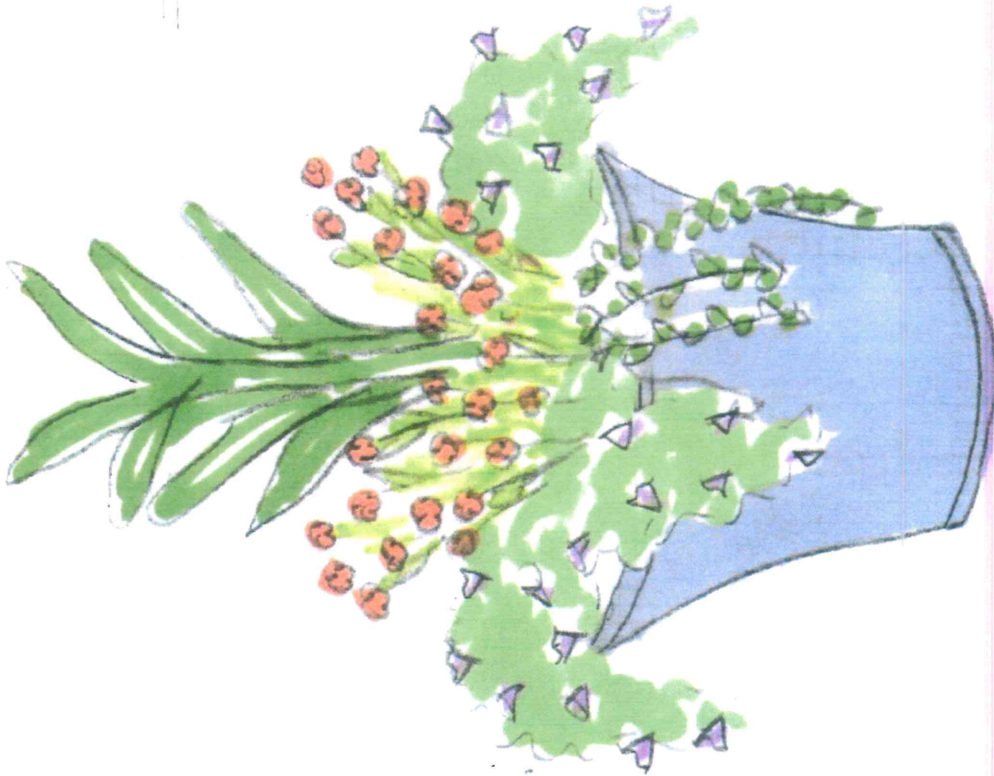


Deem Landscaping, Inc.
 Complete Landscaping Services

2005 Co Rd 1000, E. Moline, IL 61905 Call (317) 546-7010 Fax (317) 546-1207

Village of Fairport

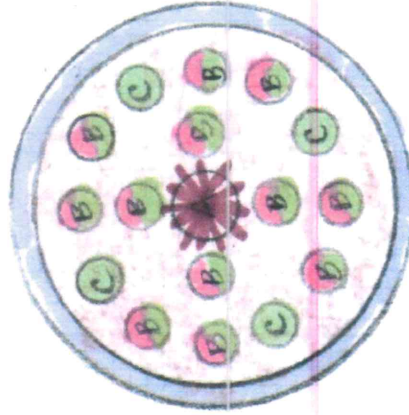
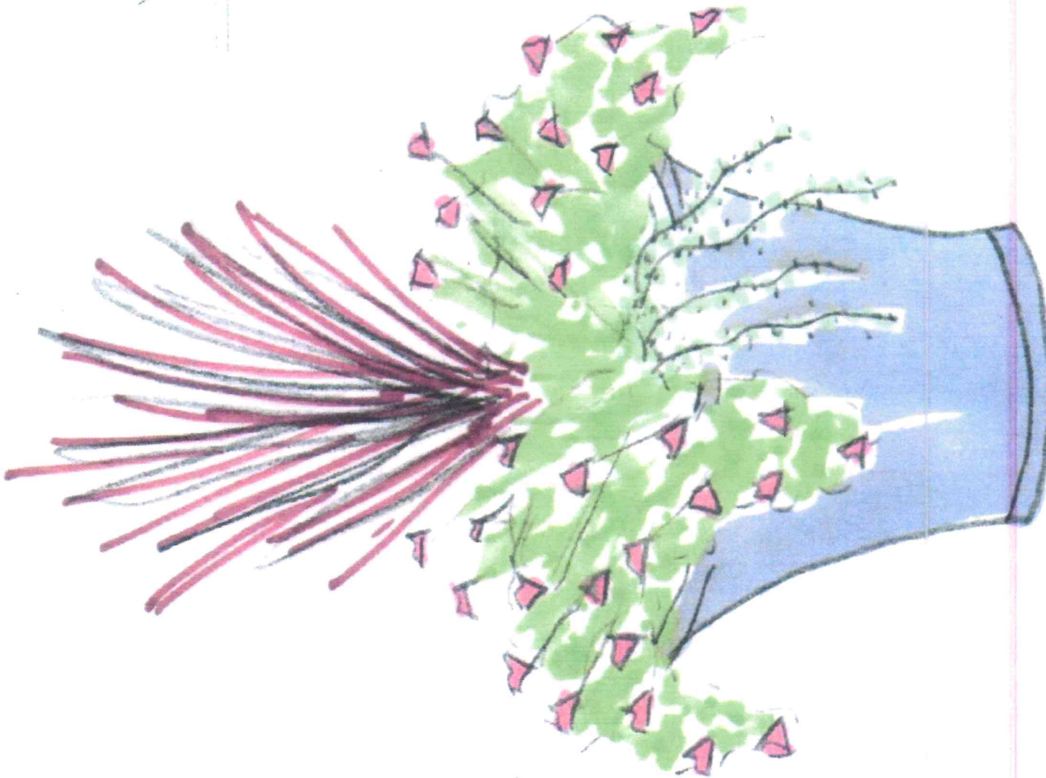
PAGE 1



A - Canna
B - Orange Zippia
C - Purple/White Fuchsia
D - Yellow Vines

VILLAGE OF RAYHOL

PAPER 3



- A - RED FOUNTAIN GRASS
- B - PINK PEONIA
- C - SILVER FICUS



Deem Landscaping, Inc.

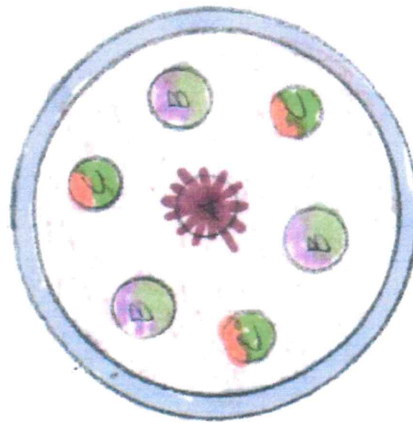
Complete Landscaping Services

1000 Co Rd 1000E, Elkhart, IN 46520 Call (219) 366-7110 Fax (219) 643-3897

VILLAGE OF KAYHOU

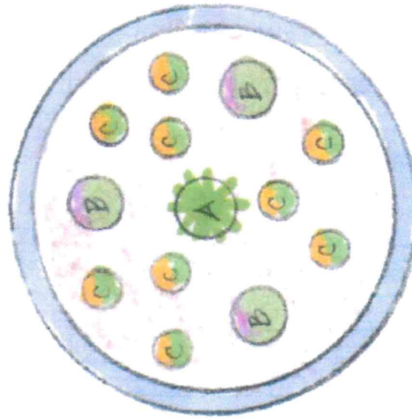
FALL PLANTINGS

#1



A - RED BUTTERFLY GRASS
B - 6" MUM
C - BUTTERFLY GARDEN

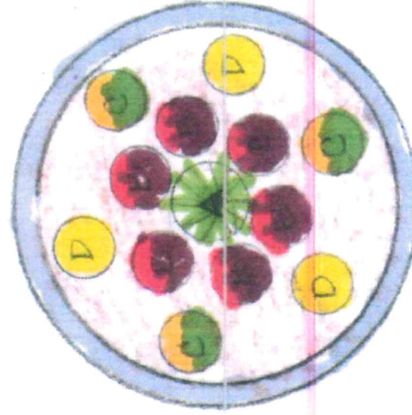
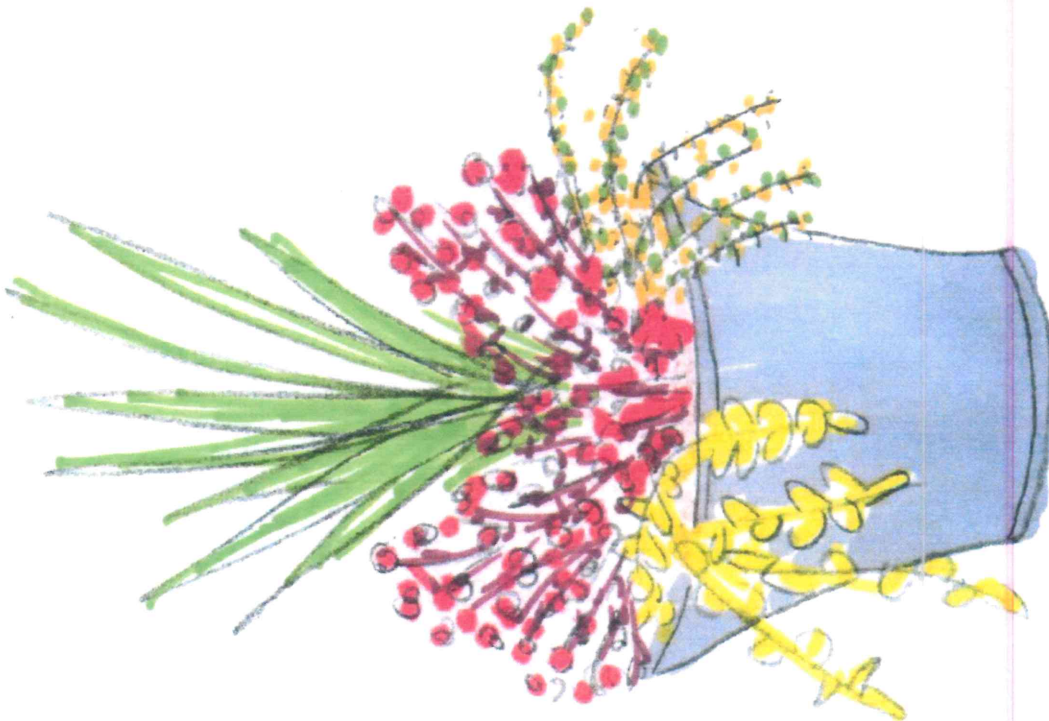
#2



A - EXOTIC FLYING GRASS
B - CABBAGE
C - FROST TOLERANT

Village of Kaptoul

PAINTER 2



- A- SPICE GARDEN
- B- DEN BEINGIA
- C- YEWOW LAPHADA
- D- GEM + SWEET POTATO VINE



Deem Landscaping, Inc.

Complete Landscaping Service

2001 E. 1st St. Suite 100, Lubbock, TX 79401 Call (817) 568-7100 Fax (817) 568-5887

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Authorize and Approve the Design, Bid, Contract, and Construction Engineering Agreement with GHR Engineering and Associates, Inc for the HVAC replacement at the Water Treatment Plant in the amount of \$47,784.00.	DEPARTMENT: Public Works
DATE: March 1, 2022	AMOUNT: \$39,484.00 – Basic Services \$2,300.00 – Structural Analysis \$3,000.00 – Site Observation <u>\$3,000.00 - Contingency (5.1%)</u> \$47,784.00 - Total
ATTACHMENTS: 1. WTP - GHR Engineering & Associates Inc	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This agenda item provides for the design, bid, contract, and construction Engineering Agreement with GHR Engineering and Associates, Inc (GHR) in the amount of \$47,784.00 for the HVAC replacement at the Water Treatment Plant (WTP). The existing chiller unit was installed in 1970. The scope of work for the project will include: • Removal of the water-cooled chiller. Replace with a new chiller featuring an air-cooled condenser on the roof. Chiller size is based on 30% outside air to both AHU-D and AHU-1 (original design was 10%). • Remove existing chilled water pumps. Provide new primary-secondary pumping with variable chilled water flow. Provide one chiller pump and one chilled water system pump. • Remove existing AHU-D and replace with new air handling unit of same size. Place heating coil in reheat position. • Replace obsolete DDC controls on AHU-1 with new DDC controls. Provide new DDC controls for chiller, AHU-D, pumps and boiler. Set both air handling units up for reheat operation.	

- Per request, retain existing hot water boiler and pumping scheme.

The Project Engineer costs are included in the FY23 budget.

RECOMMENDED ACTION: Authorize the approval of the Design, Bid, Contract, and Construction Engineering Agreement with GHR Engineering and Associates, Inc (GHR) in the amount of \$47,784.00 for the HVAC replacement at the Water Treatment Plant (WTP).

DEPARTMENT HEAD APPROVAL
Jacob D. McCoy, P.E.

VILLAGE ADMINISTRATOR
Scott Eisenhauer



JW Aquino, AIA
President

January 25, 2022

LE McGill, PE, LEED AP, BD+C
Executive Vice President

JN Gleason, PE, LEED AP
Vice President

KM Siuts
Secretary-Treasurer

Senior Associates
RA Feese
TL Hinton, PE
JG Meerdink
DB White, CDT/CCCA

Associates
GW Gailther, CET
MS Hall, PE
RC Van Note, PE

Mr. Jake McCoy
Assistant Public Works Director
Village of Rantoul
200 West Grove Avenue
Rantoul, IL 61866

SUBJECT: 7408 Water Plant
HVAC Replacement

Dear Jake,

This is submitted per our discussion at the January 20, 2022 review meeting.

We propose to provide design / bid / contract administration services for the work identified in the GHR January 21, 2022 study.

Basic services would be provided for the fixed fee of \$39,484.

We anticipate reimbursable expenses on the order of \$2,300 for a structural analysis of the roof and for advertising.

Basic services will include one trip to the site per month during construction.

We will provide additional site observation on an hourly basis with a total Not To Exceed \$3,000.

Our schedule will be per the study with the beginning date being when we receive a signed contract.

We discussed the disposition of Asbestos Containing Materials (ACM) at our review meeting. It is our understanding the Village will contract directly with a qualified Asbestos Consultant to identify where ACM is located and to design and implement an appropriate abatement effort. We will assist in this effort by meeting the Village's Consultant on site to identify piping, equipment and ductwork involved in the project.

Mr. Jake McCoy

Page 2

January 25, 2022

We will submit the following for review and approval:

- Schematic Design - Drawings and updated estimate.
- 95% Construction Documents - Drawings, front end specifications, technical specifications and updated estimates.

To assure an understanding of our mutual responsibilities, we have attached "Terms and Conditions" dated January 25, 2022.

If this proposal is acceptable, please sign and return one copy for our files.

Submitted By:

Accepted By:



James N. Gleason, PE

JNG/smh

Attachment:

Terms and Conditions

Signed

Title

Mayor Charles Smith

Typed Name

Village President

Position

January 25, 2022

GHR No. 7408

GHR ENGINEERS AND ASSOCIATES, INC.
TERMS AND CONDITIONS OF AGREEMENT
OWNER - ENGINEER
Village of Rantoul - GHR Engineers and Associates, Inc.

To assure an understanding of matters related to our mutual responsibilities these terms and conditions for professional engineering services are made a part of this agreement for our services:

AMENDMENTS

This agreement may be amended in writing providing both the Owner and Engineer agree to such modifications.

BILLING INFORMATION

SD	15%
CD	60%
BID	5%
CA	20%

COMPENSATION FOR ENGINEERING SERVICES

The basis for compensation will be as identified in the agreement.

When a "Direct Personnel Expense" (D.P.E.) payment is utilized it shall be computed by a multiplier factor times payroll cost.

The "D.P.E." means the salaries and wages paid to all Engineering personnel engaged directly in these services plus the cost of customary and statutory benefits including social security contributions, unemployment, health, sick leave, vacation, workman's compensation, incentive and holiday pay applicable thereto.

The "Multiplier" is a factor for general direct overhead, indirect costs, profit and other costs. The Multiplier factor rate shall be identified in the agreement.

TIME OF PAYMENT

The Engineer may submit monthly statements for services and expenses based upon the proportion of the actual services completed at the time of billing. Unless provided for otherwise, payments for engineering services will be due and payable sixty (60) calendar days from the issuance of the Engineer's statement.

LATE PAYMENT

If the Owner fails to make any payment due the Engineer for services and expenses within the time period specified, a service charge of 1/2% per month may be added to the Owners account. This is an annual rate of 12%.

If the Owner fails to make payments when due or is otherwise in breach of this Agreement, the Engineer may suspend services upon 5 days notice to the Owner. The Engineer shall have no liability whatsoever to the Owner for any costs or damages as a result of such suspension caused by any breach of this Agreement by the Owner.

In the event any portion or all of an account remains unpaid 90 days after billing the Owner shall pay all costs of collection, including reasonable attorney's fees.

STANDARD OF CARE

The Engineer will perform the services under this agreement in accordance with generally accepted practice, in a manner consistent with the level of care and skill ordinarily exercised by members of this profession under similar circumstances in this locality. No other warranties implied or expressed, in fact or by law, are made or intended in this agreement.

Owner shall make all unusual and/or out-of-the-ordinary design requirements known to the Engineer.

CONFIDENTIALITY

The Engineer shall hold confidential the business and technical information obtained or generated in performance of services under this agreement, and as identified in writing by the Owner as confidential.

DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

All original drawings, specifications, electronic data and other documents are instruments of the Engineer's service for use solely with respect to this project and shall remain the property of the Engineer. The Owner shall be permitted to retain copies including reproducible copies of the Engineer's drawings, specifications, electronic data and other documents for information and reference in connection with the Owner's use and occupancy of the project.

All equipment plans, site surveys, etc. necessary for the Engineer to accomplish the services shall be provided by the Owner at no charge to the Engineer.

RESPONSIBILITY FOR CONSTRUCTION COST

It is recognized that neither the Engineer nor the Owner has control over the cost of labor, materials or equipment, over the Contractor's method of determining bid prices, or over competitive bidding, marketing or negotiating conditions. Accordingly, the Engineer cannot and does not warrant or represent that bids or negotiated prices will not vary from any Opinion of Construction Cost or evaluation prepared or agreed to by the Engineer.

AUTHORITY AND RESPONSIBILITY

The Engineer shall not guarantee the work of any Contractor or Subcontractor, shall have no authority to stop work, shall have no supervision or control as to the work or persons doing the work, shall not have charge of the work, shall not be responsible for safety in, on, or about the job site or have any control of the safety or adequacy of any equipment, building component, scaffolding, supports, terms or other work aids, and shall have no duties or responsibilities imposed by the Structural Work Act.

INSURANCE

The Engineer shall maintain comprehensive general liability and professional liability insurance coverage and the Engineer employees are covered by Workers Compensation Insurance. Certificates of Insurance can be provided to the Client upon written request. The Engineer shall not be responsible for any loss, damage, or liability beyond these insurance limits and conditions.

HAZARDOUS MATERIALS

The Engineer and the Engineer's consultants shall have no responsibility for discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials in any form at the project site, including but not limited to asbestos, asbestos products, polychlorinated biphenyl (PCB) or other toxic substances. If required by law, the Owner shall accomplish all necessary inspections and testing to determine the type and extent, if any, of hazardous materials at the project site. Prior to the start of services, or at the earliest time such information is learned, it shall be the duty of the Owner to advise the Engineer (in writing) of any known or suspected hazardous materials. Removal and proper disposal of all hazardous materials shall be the responsibility of the Owner.

REMODELING AND RENOVATION

Inasmuch as the remodeling and/or rehabilitation of an existing building requires that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate or serviceable portions of the building, the Owner agrees, to the fullest extent permitted by law, to indemnify and hold the Engineer harmless from any claim, liability or cost (including reasonable attorneys' fees and costs of defense) for injury or economic loss arising or allegedly arising out of the professional services provided under this Agreement, excepting only those damages, liabilities or costs attributable to the sole negligence or willful misconduct of the Engineer.

INDEMNIFICATION

The Owner shall indemnify and hold harmless the Engineer and all of its personnel from and against any and all claims, damages, losses and expenses (including reasonable attorney's fees) arising out of or resulting from the performance of the services, provided that any such claim, damages, loss or expense is caused in whole or in part by the negligent act, omissions, and/or strict liability of the Owner, anyone directly or indirectly employed by the Owner (except the Engineer), or anyone for whose acts any of them may be liable.

MEDIATION

In the event of a dispute, the parties shall endeavor to settle disputes by mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect unless the parties mutually agree otherwise. Demand for mediation shall be filed in writing with the other party to this Agreement. A demand for mediation shall be made within a reasonable time after the claim, dispute or other matter in question has arisen. In no event shall the demand for mediation be made after the date when institution of legal or equitable proceedings based on such claim, dispute or other matter in question would be barred by the applicable statute of limitations.

TERMINATION

In the event of termination of this Agreement by either party, the Owner shall within fifteen (15) calendar days of termination pay the Engineer on an hourly basis for all services rendered by the Engineer up to the date of termination, in accordance with the payment provisions of this Agreement.

BASIC SERVICES

The following work will be considered as included in the basic fee for engineering services:

- Construction Documents
- Bidding
- Contract Administration

ADDITIONAL SERVICES

The following services will be negotiated based on study scope selected by the Owner:

- Additional Site Observation

APPLICABLE LAW

Unless otherwise specified, this agreement shall be governed by the laws of the State of Illinois.

2022.01.25 Terms.JNG.wpd

CHILLER AND AHU REPLACEMENT

RANTOUL WATER PLANT RANTOUL, ILLINOIS

Scope of Work / Estimates

GHR Project No. 7408

January 21, 2022



Mechanical & Electrical Consulting Engineers
1615 South Neil Street
Champaign, Illinois 61820
217-356-0536 Business
217-356-1092 Fax

January 21, 2022

GHR No. 7408

Chiller and AHU Replacement
Rantoul Water Plant

Scope of Work

Remove city water-cooled chiller. Replace with new chiller featuring air-cooled condenser on the roof. Chiller size based on 30% outside air to both AHU-D and AHU-1 (original design was 10%).

Remove existing chilled water pumps. Provide new primary-secondary pumping with variable chilled water flow. Provide one chiller pump and one chilled water system pump.

Remove existing AHU-D and replace with new air handling unit of same size. Place heating coil in reheat position.

Replace obsolete DDC controls on AHU-1 with new DDC controls. Provide new DDC controls for chiller, AHU-D, pumps and boiler. Set both air handling units up for reheat operation.

Per request, retain existing hot water boiler and pumping scheme.

JNG/smh

2022.01.11 Scope of Work.JNG.wpd

January 21, 2022

GHR No. 7408

Chiller and AHU Replacement
Rantoul Water Plant

Summary Sheet Project Cost

Project Cost		
Estimated Construction Cost		\$338,500
Design Contingency 5%		\$16,925
Subtotal		\$355,425
Bid Contingency 5%		\$17,771
Subtotal		\$373,196
Construction Contingency 5%		\$18,660
Subtotal		\$391,856
A/E Fee (10.58%) Group 2R Midpoint of Range		\$39,484
Reimbursables		
Roof Structural Analysis (Allow)	\$1,500	
Advertising	\$800	
Site Observation	\$3,000	
Total Reimbursables		\$5,300
Project Cost		\$436,640

JNG/smh

2022.01.11 Summary Project Cost.JNG.wpd

January 21, 2022

GHR No. 7408

Chiller and AHU Replacement
Rantoul Water Plant

Summary Sheet Construction Cost
--

Trade	Cost
Heating (Prime Contract)	\$157,000
Ventilating (Subcontract)	\$30,000
General (Subcontract)	\$10,000
Electrical (Subcontract)	\$17,000
Plumbing (Subcontract)	\$4,500
Insulation (Subcontract)	\$34,000
Test and Balance (Subcontract)	\$5,000
Temperature Controls (Subcontract)	\$81,000
Total Construction Cost	\$338,500

JNG/smh

2022.01.11 Summary Construction Cost.JNG.wpd

OPINION OF PROBABLE COST - Heating

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Prime Contract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 disconnect existing chiller and remove	1	ls	\$3,000.00	\$3,000
2.0 disconnect AHU-1 CHW piping (to filter room) at floor	1	ls	\$1,100.00	\$1,100
3.0 remove both active pumps	1	ls	\$600.00	\$600
4.0 remove abandoned pump	1	ls	\$200.00	\$200
5.0 remove all CHW piping to AHU-D	1	ls	\$1,000.00	\$1,000
6.0 remove existing HW piping to AHU-2	1	ls	\$800.00	\$800
7.0 new chiller sized to equal existing plus 20% more OA, 2 comps, material quote \$66,000 plus 10% mark-up	1	ls	\$72,600.00	\$72,600
8.0 chiller install and trim	1	ls	\$4,200.00	\$4,200
9.0 new ACC sized at 100 degree F OAT, material quote in chiller price				-\$0-
10.0 install ACC	1	ls	\$3,300.00	\$3,300
11.0 crane	1	ls	\$2,000.00	\$2,000
12.0 refig piping two sets	2	sets	\$4,000.00	\$8,000
13.0 chiller primary piping and valves	1	ls	\$6,000.00	\$6,000
14.0 chilled water buffer tank 250 gallon	1	ls	\$5,500.00	\$5,500
15.0 pot feeder	1	ls	\$1,200.00	\$1,200
16.0 pipe cleaning	1	ls	\$1,500.00	\$1,500
17.0 chemicals	1	ls	\$700.00	\$700
18.0 air control / expansion tank	1	ls	\$1,100.00	\$1,100
19.0 new base-mounted chiller pump (on VFD) and trim	1	ls	\$7,000.00	\$7,000
20.0 secondary CHW system piping and valves	1	ls	\$8,500.00	\$8,500
21.0 base-mounted CHW system pump (on VFD) and trim	1	ls	\$7,000.00	\$7,000
22.0 remove three-way CHW control valve at AHU-1	1	ls	\$300.00	\$300
23.0 revise piping, install new two-way CHW control valve at AHU-1	1	ls	\$1,200.00	\$1,200
24.0 connect new AHU-D cooling coil and trim	1	ls	\$1,200.00	\$1,200
25.0 install new three way control valve at new AHU-2 (HW)	1	ls	\$600.00	\$600

26.0 Miscellaneous	10.00%	\$13,860
27.0 Bond	1.50%	\$2,287
28.0 Insurance	1.50%	\$2,287

Heating Contract (actual) \$157,034
Heating Contract (rounded) \$157,000

OPINION OF PROBABLE COST - Ventilating

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 disconnect AHU-D and remove	1	ls	\$2,300.00	\$2,300
2.0 new AHU-D (same airflow as existing) material quote \$15,000, 10% mark-up	1	ls	\$16,500.00	\$16,500
3.0 install new AHU-D	1	ls	\$2,300.00	\$2,300
4.0 reconnect OA duct	1	ls	\$1,800.00	\$1,800
5.0 reconnect RA duct	1	ls	\$2,000.00	\$2,000
6.0 reconnect SA duct	1	ls	\$2,000.00	\$2,000

7.0 Miscellaneous	10.00%	\$2,690
8.0 Bond	1.50%	\$444
9.0 Insurance	1.50%	\$444

Ventilating Subcontract (actual) \$30,478
Ventilating Subcontract (rounded) **\$30,000**

OPINION OF PROBABLE COST - General

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 enlarge chiller pad (may not need)	1	ls	\$900.00	\$900
2.0 enlarge AHU-D pad (may not need)	1	ls	\$900.00	\$900
3.0 new pump pads	2	ea	\$500.00	\$1,000
4.0 roof rails (for ACC) at least 18" high	2	ea	\$800.00	\$1,600
5.0 pipe portal for refrig, power and control	1	ls	\$1,200.00	\$1,200
6.0 roof work (membrane of some type, listed Contractor)	1	ls	\$3,000.00	\$3,000

7.0 Miscellaneous	10.00%	\$860
8.0 Bond	1.50%	\$142
9.0 Insurance not included	1.50%	\$142

General Subcontract (actual) \$9,744
General Subcontract (rounded) \$10,000

OPINION OF PROBABLE COST - Electrical Contract

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 disconnect chiller, remove conduit and wire back to switch	1	ls	\$1,000.00	\$1,000
2.0 disconnect existing CHW pumps (2) and some conduit and wire	2	ea	\$600.00	\$1,200
3.0 disconnect AHU-D, remove conduit and wire as required	1	ls	\$900.00	\$900
4.0 connect chiller, re-use 200 amp fused switch	1	ls	\$2,300.00	\$2,300
5.0 connect new ACC, local disc	1	ls	\$2,500.00	\$2,500
6.0 WP GFI outlet on roof	1	ls	\$900.00	\$900
7.0 chiller pump circuit (re-use one of existing)	1	ls	\$900.00	\$900
8.0 system pump circuit (re-use one of existing)	1	ls	\$900.00	\$900
9.0 install VFD's provided by TC	3	ea	\$500.00	\$1,500
10.0 provide duct-mounted smoke detector in AHU-D RA (existing building F/A system unknown)	1	ls	\$2,300.00	\$2,300
11.0 miscellaneous work in boiler room	1	ls	\$600.00	\$600

12.0 Miscellaneous	10.00%	\$1,500
13.0 Bond	1.50%	\$248
14.0 Insurance	1.50%	\$248

Electrical Subcontract (actual) \$16,995
Electrical Subcontract (rounded) \$17,000

OPINION OF PROBABLE COST - Plumbing

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 disconnect and remove potable water piping	1	ls	\$1,200.00	\$1,200
2.0 disconnect make-up	1	ls	\$600.00	\$600
3.0 new BPV, install at proper elevation	1	ls	\$1,200.00	\$1,200
4.0 make-up connection to chilled water	1	ls	\$800.00	\$800
5.0 back-up once-through connection/drain? Not unless they ask for it				-\$0-

6.0 Miscellaneous	10.00%	\$380
7.0 Bond	1.50%	\$63
8.0 Insurance	1.50%	\$63

Plumbing Subcontract (actual) \$4,305
Plumbing Subcontract (rounded) \$4,500

OPINION OF PROBABLE COST - Insulation

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 abate ACM CHW (WAG, scope unknown)	1	ls	\$8,000.00	\$8,000
2.0 abate ACM HW (WAG, scope unknown)	1	ls	\$4,000.00	\$4,000
3.0 abate ACM plumbing (WAG, scope unknown)	1	ls	\$1,000.00	\$1,000
4.0 refrig pipe - outside (aluminum jacketed)	2	ea	\$2,000.00	\$4,000
5.0 refrig pipe - inside, armaflex	2	ea	\$2,500.00	\$5,000
6.0 plumbing pipe insulation, armaflex	1	ls	\$1,400.00	\$1,400
7.0 CHW armaflex	1	ls	\$4,300.00	\$4,300
8.0 HW fiberglass	1	ls	\$1,400.00	\$1,400
9.0 patch existing at AHU-1	1	ls	\$900.00	\$900

10.0 Miscellaneous	10.00%	\$3,000
11.0 Bond	1.50%	\$495
12.0 Insurance	1.50%	\$495

Insulation Subcontract (actual) \$33,990
Insulation Subcontract (rounded) **\$34,000**

OPINION OF PROBABLE COST - Test and Balance

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 chiller / pump	1	ls	\$1,000.00	\$1,000
2.0 system pump	1	ls	\$1,000.00	\$1,000
3.0 AHU-D (air, hot, chilled)	1	ls	\$1,500.00	\$1,500
4.0 AHU-1 (chilled)	1	ls	\$800.00	\$800

5.0 Miscellaneous	10.00%	\$430
6.0 Bond	1.50%	\$71
7.0 Insurance	1.50%	\$71

Test and Balance Subcontract (actual) \$4,872
Test and Balance Subcontract (rounded) \$5,000

OPINION OF PROBABLE COST - Temp Controls

GHR Engineers & Associates, Inc.

RE: 7408
Chiller and AHU Replacement
Rantoul Water Plant
Subcontract

X	Original 01/11/22

date printed: 01/21/22
time printed: 11:19 AM
prepared by: JNG

LINE ITEM NO. AND DESCRIPTION	QTY	UNIT	COST/UNIT	AMOUNT
1.0 remove pneumatic controls for chiller	1	ls	\$600.00	\$600
2.0 remove pneumatic controls for AHU-D	1	ls	\$800.00	\$800
3.0 remove local control panel AHU-1 (this is an old Landis and Gyr panel)	1	ls	\$800.00	\$800
4.0 remove pneumatic thermostat AHU-D	1	ls	\$100.00	\$100
5.0 temperature control quote from TSS	1	ls	\$62,100.00	\$62,100
new DDC AHU-D (set up for reheat)				
local control panel				
new damper operator(s) (dampers in mixing box plus relief)				
CHW valve and operator (2-way)				
HW valve and operator (3-way)				
room thermostat and CO2 sensor				
provide VFD				
integrate				
revise DDC AHU-1				
replace local control panel				
CHW valve and operator (2-way)				
re-use HW valve and operator				
new relief air damper operator				
integrate				
chiller / ACC				
new LCP				
chiller / ACC				
chiller pump				
system pump				
integrate				
graphics				
training				
revise heating controls				
6.0 add for VFD's	3	ea	\$2,300.00	\$6,900

7.0 Miscellaneous	10.00%	\$7,130
8.0 Bond	1.50%	\$1,176
9.0 Insurance	1.50%	\$1,176

Temperature Control Subcontract (actual)	\$80,783
Temperature Control Subcontract (rounded)	\$81,000

January 21, 2022

GHR No. 7408

Chiller and AHU Replacement
Rantoul Water Plant

Schedule

Contract for services.	Start
SD review.	3 weeks
95% review.	3 weeks
Out for Bids.	1 week
Prebid Meeting on site.	1 week
Receive bids.	2 weeks
Approve bids.	1 week
Contract signed.	1 week
Shop drawings.	1 week
Prepare for new equipment.	--
Wait until equipment is on site before beginning work (19 weeks chiller).	19 weeks
Take chiller out of service.	--
Take AHU-D out of service.	--
New equipment up and running.	3 weeks
Controls / debugging.	2 weeks
Final completion.	<u>1 week</u>
Total Weeks	28 weeks
Total Months	6.5 months

Notes:

1. Taking the cooling down in summer will likely create serious condensation problems in filter room.
2. Chiller downtime will be two to three weeks.
3. AHU-1 (Filter Room) will be down while chiller is down.
4. AHU-D (Offices) will be down while chiller is down and down while the unit is being replaced. May be able to overlap with chiller replacement.

JNG/smh

2022.01.11 Schedule.JNG.wpd

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Authorize and Approve the Contract with Cross Construction, Inc. for roadway improvements, resurfacing Congress Avenue and Sheldon Street, in the amount of \$1,244,883.87.	DEPARTMENT: Public Works
DATE: March 1, 2022	AMOUNT: \$568,575.00 RBI \$407,857.00 MFT \$220,000.00 CDBG <u>\$ 48,451.87 Local - RTHS</u> \$1,244,883.87
ATTACHMENTS: 1. Congress & Sheldon Resurfacing - Cross Construction Inc	ADMINISTRATIVE NOTES:
SUMMARY HIGHLIGHTS: This Agenda Item provides for the award of a contract with Cross Construction Inc, in the amount of \$1,244,883.87, for the roadway improvements associated with the resurfacing of Congress Avenue, from Century Boulevard to Klein Avenue, and Sheldon Street, from Champaign Avenue to Grove Avenue. The existing hot-mix asphalt surface will be milled and resurfaced with a new asphalt surface. Also included in the project, will be pavement patching, sidewalks, ADA ramp rehabs, pavement marking, and other related work. The project was first bid last summer; the bids all came in too high, so it was redesigned by shortening the west limit of Congress to Century Boulevard. It was re-advertised in late January 2022, and bids were received on February 8, 2022. Two (2) contractors submitted bids, and the Bid Tabulation is enclosed for reference. Cross Construction, Inc. has submitted the lowest responsive bid in the amount of \$1,244,883.87, and it is the most cost-effective approach for the Village. The total funds allocated for the project are: • \$568,575.00 Rebuild Illinois Bonds Funds (RBI) - Congress Resurfacing • \$157,857.00 State Motor Fuel Tax (MFT) - Congress Resurfacing	

- \$220,000.00 Community Development Block Grant (CDBG) - Congress Resurfacing
- \$250,000.00 State Motor Fuel Tax (MFT) - Sheldon Resurfacing
- \$48,451.87 Local - PW Funds / RTHS - Sheldon Resurfacing

The Board approved [Resolution 06-21-1339](#) for State Motor Fuel Tax and Rebuild Illinois Bonds funds during the June 2021 Board Meeting for \$976,432.00.

The project will be included in the FY23 budget.

RECOMMENDED ACTION: Authorize the award of a contract with Cross Construction Inc, in the amount of \$1,244,883.87, for the roadway improvements associated with the resurfacing of Congress Avenue, from Tanner Street to Century Boulevard, and Sheldon Street, from Champaign Avenue to Grove Avenue.

DEPARTMENT HEAD APPROVAL Jacob D. McCoy, P.E.	VILLAGE ADMINISTRATOR Scott Eisenhauer
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***H**utchison Engineering, Inc.*

Since 1945

Carbondale • Jacksonville • Quad Cities • Peoria • Shorewood

February 9, 2022

Jake McCoy, P.E.
City Engineer
Village of Rantoul
200 W. Grove Ave.
Rantoul, IL 61866

Re: Award Recommendation – Congress Ave. & Sheldon St. Resurfacing

Dear Mr. McCoy:

As requested, we have reviewed the two (2) proposals received at the bid opening held at Village Hall on February 8, 2022 for the above noted project. A summary of the bid tabulation is attached. Cross Construction, Inc. submitted the apparent low bid in the amount of \$1,244,883.87. This amount is 1.6% more than our opinion of probable construction cost of \$1,224,835.00 and therefore we consider a reasonable bid. Cross Construction, Inc. is a reputable company that has successfully completed work for the Village in the past.

Cross Construction, Inc. appears to have fully completed their bid proposal and submitted the necessary executed forms with their bid proposal. They submitted a bid security in the form of a Bid Bond for 5% of the Amount Bid from a surety company certified to do business in the State of Illinois. Cross Construction, Inc. as a corporation, included all necessary signatures and dates. Therefore, we find Cross Construction, Inc. to be both 'responsive' and 'responsible' as defined in the bidding documents, and recommend the Village of Rantoul accept the bid proposal from them and award the Contract to them in the amount of \$1,244,883.87.

Upon notification that the Village approves the bid, we will deliver the Notice of Award along with the Contract and Contract Bond forms to Cross Construction, Inc. for their execution.

Very truly yours,

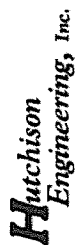
Hutchison Engineering Inc.



W. Shane Larson, P.E.

Vice President

Attach.



Owner: Village of Rantoul
Project: Congress Ave & Sheldon St
Date: February 8, 2022
Time: 10:00 AM

Owner: Village of Rantoul Congress Ave & Sheldon St February 8, 2022 10:00 AM	Name of Bidder Address of Bidder Proposal Guarantee Terms	Cross Constructin, Inc. 3615 N Countryview Rd. Urbana, IL 61802	Open Roads Paving Company 1414 W Anthony Drive Urbana, IL 61802	Bid Bond 5%	Bid Bond 5%	Engineer's Estimate										Total	Unit Price	Total	Unit Price	Total						
						Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total						Unit Price	Total				
						Engineer's Estimate															Total		Unit Price		Total	
						Engineer's Estimate															Total		Unit Price		Total	
20800150	TRENCH BACKFILL	CU YD	75	\$160.00	\$12,000.00	\$150.00	\$11,250.00	\$52.13	\$3,909.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
28000500	INLET AND PIPE PROTECTION	EACH	36	\$240.00	\$9,120.00	\$200.00	\$7,200.00	\$190.07	\$7,272.66	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
35100700	AGGREGATE BASE COURSE, TYPE A, 8"	SC YD	106	\$30.00	\$3,180.00	\$45.00	\$4,770.00	\$26.07	\$2,763.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
40600270	BITUMINOUS MATERIALS (PRIME COAT)	POUND	238	\$3.00	\$714.00	\$3.20	\$761.60	\$3.75	\$892.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
40600290	BITUMINOUS MATERIALS (THICK COAT)	POUND	9219	\$2.00	\$18,438.00	\$3.10	\$28,578.90	\$1.50	\$13,878.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
40600370	LONGITUDINAL JOINT SEALANT	FOOT	6552	\$4.00	\$26,208.00	\$3.00	\$19,656.00	\$3.15	\$20,638.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
40600990	TEMPORARY RAMP	SC YD	316	\$35.00	\$11,060.00	\$16.00	\$5,056.00	\$41.50	\$13,114.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, NSD	TON	21	\$300.00	\$6,300.00	\$300.00	\$6,300.00	\$289.40	\$6,077.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", NSD	SC YD	1717	\$150.00	\$257,550.00	\$135.00	\$231,795.00	\$174.40	\$299,444.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
423001300	PROTECTIVE COAT	SC YD	1605	\$3.00	\$4,815.00	\$1.50	\$2,407.50	\$1.85	\$2,969.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SC YD	63	\$105.00	\$6,615.00	\$105.00	\$6,615.00	\$93.57	\$5,894.91	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SC YD	11549	\$13.00	\$150,137.00	\$13.00	\$150,137.00	\$12.65	\$146,094.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44000800	DETECTABLE MARKINGS	SC FT	403	\$45.00	\$18,135.00	\$42.00	\$16,926.00	\$30.41	\$12,255.23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44000100	PAVEMENT REMOVAL	SC FT	280	\$20.00	\$5,600.00	\$11.00	\$3,080.00	\$15.21	\$4,258.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SC YD	20327	\$3.00	\$60,981.00	\$4.00	\$81,308.00	\$4.12	\$83,747.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44000200	DRIVEWAY PAVEMENT REMOVAL	SC YD	136	\$115.00	\$15,640.00	\$22.00	\$2,992.00	\$23.84	\$24,173.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1014	\$21.00	\$21,294.00	\$22.00	\$22,308.00	\$21.34	\$21,374.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44000600	SIDEWALK REMOVAL	SC FT	8752	\$6.00	\$52,512.00	\$6.00	\$52,512.00	\$7.53	\$64,818.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44200994	CLASS B PATCHES, TYPE II, 12 INCH	SC YD	607	\$250.00	\$151,750.00	\$255.00	\$154,785.00	\$258.95	\$156,294.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44200998	CLASS B PATCHES, TYPE II, 13 INCH	SC YD	18	\$200.00	\$3,600.00	\$225.00	\$4,050.00	\$1,258.95	\$22,845.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SC YD	47	\$250.00	\$11,750.00	\$250.00	\$11,750.00	\$600.00	\$28,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,759.50	\$1,759.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60219300	MANHOLES, TYPE A, 4" DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	\$4,000.00	\$4,000.00	\$3,700.00	\$3,700.00	\$5,055.84	\$5,055.84	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60221000	MANHOLES, TYPE A, 5" DIAMETER, TYPE 11 FRAME, CLOSED LID	EACH	1	\$5,000.00	\$5,000.00	\$4,900.00	\$4,900.00	\$6,103.94	\$6,103.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60222000	MANHOLES, TYPE A, 5" DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$6,321.16	\$6,321.16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	2	\$2,000.00	\$4,000.00	\$2,000.00	\$4,000.00	\$2,166.01	\$4,332.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60255500	MANHOLES TO BE ADJUSTED	EACH	19	\$1,800.00	\$34,200.00	\$1,800.00	\$34,200.00	\$2,438.07	\$46,323.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60260100	INLETS TO BE ADJUSTED	EACH	15	\$800.00	\$12,000.00	\$900.00	\$13,500.00	\$925.44	\$13,881.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60263900	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,673.73	\$1,673.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	\$750.00	\$1,500.00	\$750.00	\$1,500.00	\$723.54	\$1,447.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60500040	REMOVING MANHOLES	EACH	2	\$1,500.00	\$3,000.00	\$850.00	\$1,700.00	\$892.60	\$1,785.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60500060	REMOVING INLETS	EACH	1	\$750.00	\$750.00	\$350.00	\$350.00	\$857.60	\$857.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 12	FOOT	681	\$60.00	\$40,860.00	\$65.00	\$44,265.00	\$72.12	\$49,113.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 18	FOOT	57	\$70.00	\$3,990.00	\$80.00	\$4,560.00	\$72.77	\$4,147.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 24	FOOT	272	\$55.00	\$15,040.00	\$60.00	\$16,320.00	\$76.30	\$20,753.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300100	MOBILIZATION	L SUM	1	\$30,000.00	\$30,000.00	\$35,000.00	\$35,000.00	\$85,000.00	\$85,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300150	SHORT TERM PAVEMENT MARKING	FOOT	401	\$1.00	\$401.00	\$3.25	\$1,303.25	\$3.22	\$1,291.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SC FT	134	\$5.00	\$670.00	\$20.00	\$2,680.00	\$30.78	\$4,124.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SC FT	28	\$7.00	\$196.00	\$0.01	\$0.28	\$0.01	\$0.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5278	\$2.00	\$10,556.00	\$0.01	\$52.78	\$0.01	\$52.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1791	\$3.00	\$5,373.00	\$0.01	\$17.91	\$0.01	\$17.91	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1109	\$6.00	\$6,654.00	\$0.01	\$11.09	\$0.01	\$11.09	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	356	\$13.00	\$4,628.00	\$0.01	\$3.56	\$0.01	\$3.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
72000100	SIGN PANEL - TYPE 1	SC FT	335	\$36.00	\$12,060.00	\$40.00	\$13,400.00	\$24.30	\$8,140.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
72400310	REMOVE SIGN PANEL - TYPE 1	SC FT	200	\$20.00	\$4,000.00	\$23.00	\$4,600.00	\$15.00	\$3,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
72800100	TELESCOPING STEEL SIGN SUPPORT	SC FT	711	\$25.00	\$17,775.00	\$21.00	\$14,931.00	\$21.00	\$14,931.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
78000900	MODIFIED URETHANE PAVT MARKING - LETTERS & SYMBOLS	SC FT	28	\$20.00	\$560.00	\$10.00	\$280.00	\$6.00	\$168.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
78000904	MODIFIED URETHANE PAVT MARKING - LINE 4"	FOOT	5278	\$3.50	\$18,473.00	\$3.00	\$15,834.00	\$1.84	\$9,711.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
78000906	MODIFIED URETHANE PAVT MARKING - LINE 6"	FOOT	1791	\$55.00	\$98,955.00	\$5.00	\$8,955.00	\$2.75	\$4,925.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
78000912	MODIFIED URETHANE PAVT MARKING - LINE 12"	FOOT	1109	\$10.00	\$11,090.00	\$8.00	\$8,872.00	\$5.50	\$6,099.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
78000924	MODIFIED URETHANE PAVT MARKING - LINE 24"	FOOT	356	\$20.00	\$7,120.00	\$15.00	\$5,340.00	\$11.00	\$3,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
X0301834	STORM SEWER TO BE FILLED	FOOT	51	\$35.00	\$1,785.00	\$30.00	\$1,530.00	\$58.65	\$2,991.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SC FT	4475	\$2.00	\$8,950.00	\$2.00	\$8,950.00	\$1.50	\$6,711.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	\$40,000.00	\$40,000.00	\$67,000.00	\$67,000.00	\$150,000.00	\$150,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$15,100.00	\$15,100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	188	\$100.00	\$18,800.00	\$130.00	\$24,440.00	\$370.54	\$69,661.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00									
Base Bid				As Read Base:			\$1,244,883.87			Calculated Base:			\$1,452,521.58			As Read Base:			Calculated Base:							
				As Read Base:			\$1,244,883.87			Calculated Base:			\$1,452,521.58			As Read Base:			Calculated Base:							

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR

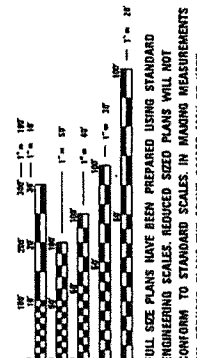
VILLAGE OF RANTOUL, ILLINOIS
CONGRESS AVENUE AND
SHELDON STREET RESURFACING

SECTION 20-00114-00-PV
RESURFACING PROJECT

FOR INDEX OF SHEETS AND LIST OF HIGHWAY
STANDARDS, SEE SHEET NO. 2

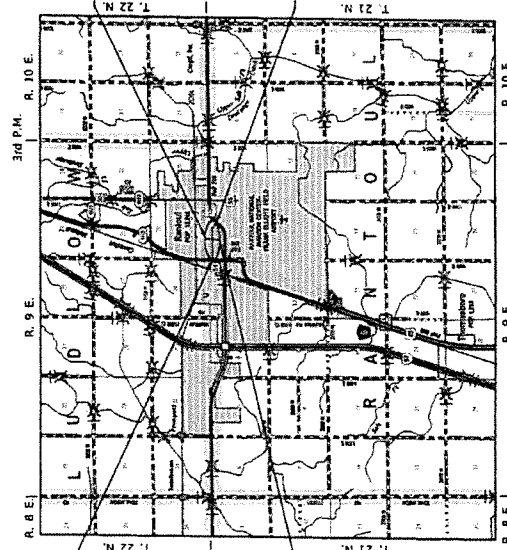
- GAS**
TICOR GAS
1500 WEST GROVE AVENUE
NAPERVILLE, ILLINOIS
- COMMUNICATIONS**
FRONTIER COMMUNICATIONS
1500 WEST GROVE AVENUE
NAPERVILLE, ILLINOIS
- WATER, SEWER & ELECTRIC**
VILLAGE OF RANTOUL
1500 WEST GROVE AVENUE
NAPERVILLE, ILLINOIS
- METRO COMMUNICATIONS**
8 SOUTH WASHINGTON STREET
SULLY, ILLINOIS
- GAUGOTTE TECHNOLOGIES**
1000 WEST WASHINGTON AVENUE
URBANA, ILLINOIS
- VERO FIBER NETWORKS, LLC**
1023 WALNUT STREET
BOULDER, COLORADO

DESCRIPTION OF WORK
THIS PROJECT CONSISTS OF RESURFACING CONGRESS AVENUE SHELDON STREET FROM CHAMPION AVENUE NORTHERLY TO GROVE AVENUE. THE EXISTING HOT-MIX ASPHALT SURFACE WILL BE MILLED AT A 1 1/2" DEPTH AND REPLACED WITH A 4" THICK COURSE OF PCC. PAVEMENT PATCHING, SIDEWALK ADA RAMP CONSTRUCTION, PAVEMENT MARKING AND RELATED WORK.



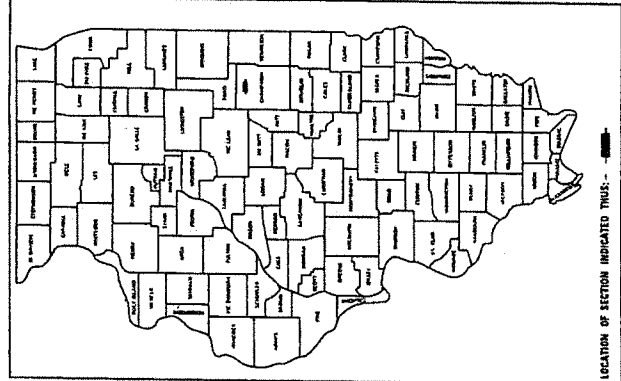
NOTE: FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROJECT MANAGER:
ANTHONY W. MILLER, P.E.
HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS



LOCATION MAP
1 MI 0 1 MI
APPROXIMATE SCALE

CONGRESS AVENUE GROSS LENGTH = 2,076.65 FT = 0.564 MILES
SHELDON STREET GROSS LENGTH = 1,332.48 FT = 0.256 MILES
CONGRESS AVENUE NET LENGTH = 2,487.70 FT = 0.542 MILES
SHELDON STREET NET LENGTH = 1,247.51 FT = 0.225 MILES



LOCATION OF SECTION INDICATED THERE -



APPROVED: 1/15/22
PUBLIC WORKS - VILLAGE OF RANTOUL

APPROVED: 1-10-2022
RANTOUL - VILLAGE OF RANTOUL

PASSED: JANUARY 12, 2022

FOR THE ENGINEER OF PUBLIC WORKS & STREET
BASED ON LIMITED
REVIEW
JANUARY 13, 2022

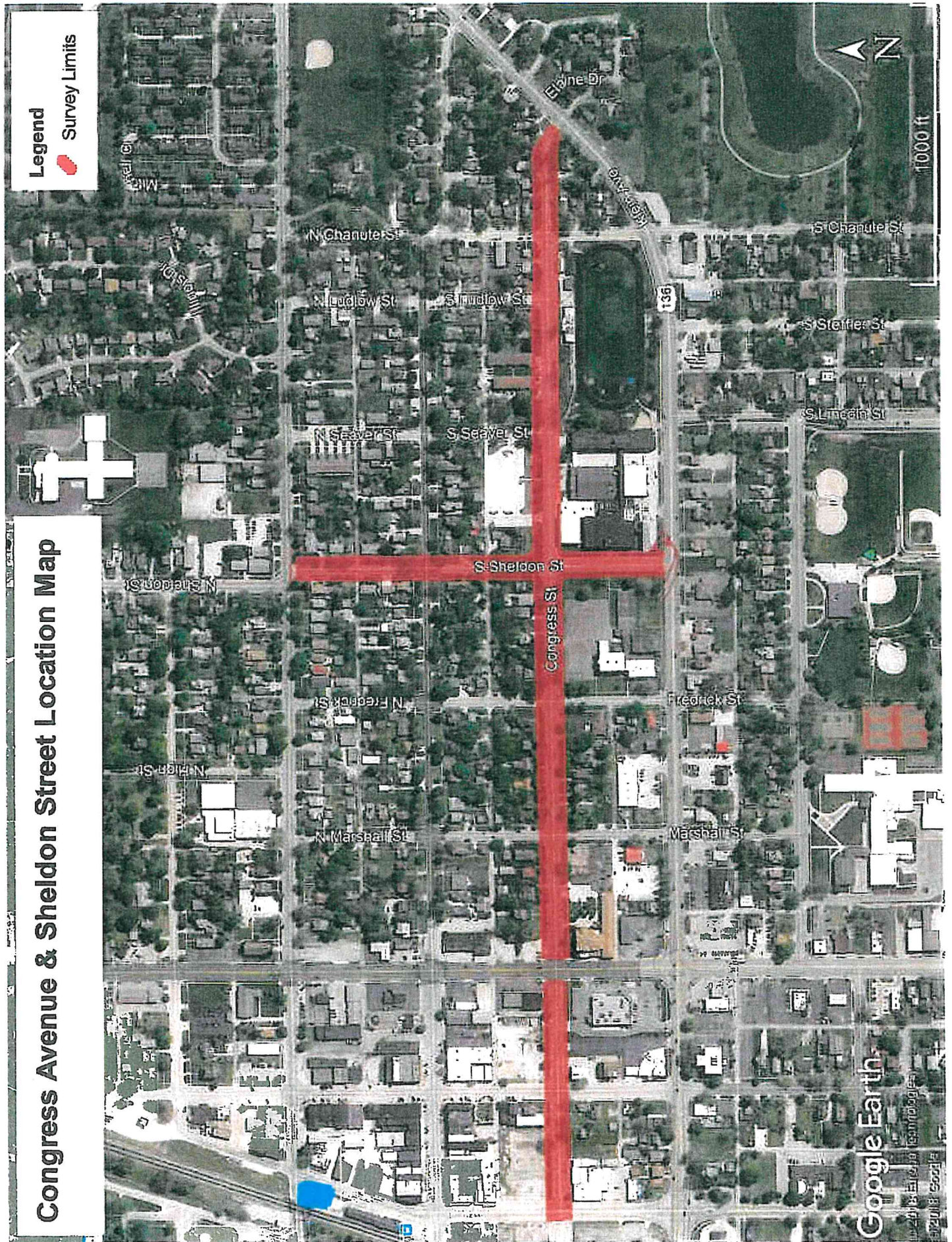
REVIEWED: 1/13/23
REVIEWED: 1/13/23

REVIEWED: 1/13/23
REVIEWED: 1/13/23

Hutchison Engineering, Inc.
JACKSONVILLE, ILLINOIS
CHAMPAIGN, ILLINOIS
DESIGNED: 1/13/23

BOARD OF TRUSTEES
VILLAGE OF RANTOUL

AGENDA ITEM		PAGE	OF
ITEM: Local Agency Resolution for Improvement for the Construction of the resurfacing of Congress Avenue and Sheldon Street	DEPARTMENT: Public Works		
AGENDA SECTION:	AMOUNT: <u>\$1,196,432.00</u> \$426,432.00 RBI - Congress Resurfacing \$250,000.00 MFT – Congress Resurfacing \$220,000.00 CDBG – Congress Resurfacing \$250,000.00 MFT – Sheldon Resurfacing \$50,000.00 MFT – RTHS - Sheldon Resurfacing		
ATTACHMENTS: ☐ ORDINANCE ☒ RESOLUTION ☐ OTHER (See Summary Highlights) ☒ SUPPORTING DOCUMENTS	DATE: May 26, 2021		
SUMMARY HIGHLIGHTS: This Agenda Item provides for the formal allocation of Illinois Department of Transportation (IDOT) REBUILD Illinois Bond (RBI) funds in the amount of \$426,432.00; for the formal allocation of (IDOT) Motor Fuel Tax (MFT) funds in the amount of \$550,000.00; for the formal allocation of The Community Development Block Grant (CDBG) Program funds in the amount of \$220,000.00; for the roadway improvements associated with the resurfacing of Congress Avenue from Tanner Street to Klein Avenue and Sheldon Street from Champaign Avenue to Grove Avenue. The existing hot-mix asphalt surface will be milled and resurfaced with a new asphalt surface. Also included in project will be pavement patching, sidewalk ramp rehabs, pavement marking and other related work. IDOT has created the Local REBUILD Illinois Bond Funds (RBI) and IDOT intends to disburse the \$1.5 billion in RBI funds in six installments over the course of three years. The Village has been allocated, based on population, \$142,144.00 per installment. The Village has received three installments to date totaling \$426,432.00, which will be used to fund Congress & Sheldon resurfacing project. State Motor Fuel Tax (MFT) will be used to fund the balance. The project will be locally let with a projected construction start date of August 1, 2021.			
RECOMMENDED ACTION: Authorize the approval for the formal allocation of (IDOT) REBUILD Illinois Bond (RBI) funds in the amount of \$426,432.00; for the formal allocation of (IDOT) (MFT) funds in the amount of \$550,000.00; for the formal allocation of (CDBG) Program funds in the amount of \$220,000.00; for the roadway improvements associated with the resurfacing of Congress Avenue from Tanner Street to Klein Avenue and Sheldon Street from Champaign Avenue to Grove Avenue.			
DEPARTMENT HEAD APPROVAL: Jacob D. McCoy, P.E. 		VILLAGE ADMINISTRATOR: Scott Eisenhauer	
AGENDA PAGE NUMBER:			





Resolution for Improvement Under the Illinois Highway Code



Is this project a bondable capital improvement?

☒ Yes ☐ No

Resolution Type

Original

Resolution Number

Section Number

20-00114-00-PV

BE IT RESOLVED, by the President and Board of Trustees of the Village
Governing Body Type Local Public Agency Type
of Rantoul Illinois that the following described street(s)/road(s)/structure be improved under
Name of Local Public Agency
the Illinois Highway Code. Work shall be done by Contract
Contract or Day Labor

For Roadway/Street Improvements:

Name of Street(s)/Road(s)	Length (miles)	Route	From	To
Congress Ave.	0.73		Tanner St	Klein Ave
Sheldon St.	0.254		Champaign Ave.	Grove Ave

For Structures:

Name of Street(s)/Road(s)	Existing Structure No.	Route	Location	Feature Crossed

BE IT FURTHER RESOLVED,

1. That the proposed improvement shall consist of

The project consists of milling and resurfacing of Congress Ave. and Sheldon St. within the limits described above. The existing hot-mix asphalt surface will be milled at 1 1/2" and variable and resurfaced with 1 1/2" hot-mix asphalt surface. Also included in the project is PCC pavement patching, sidewalk, ADA ramps, pavement marking and related work.

2. That there is hereby appropriated the sum of Nine hundred seventy-six thousand four hundred thirty-two dollars
and no/100 Dollars (\$976,432.00) for the improvement of
said section from the Local Public Agency's allotment of Motor Fuel Tax funds.

BE IT FURTHER RESOLVED, that the Clerk is hereby directed to transmit four (4) certified originals of this resolution to the district office of the Department of Transportation.

I, Village Clerk in and for said Village
Name of Clerk Local Public Agency Type Local Public Agency Type
of Rantoul in the State aforesaid, and keeper of the records and files thereof, as provided by
Name of Local Public Agency
statute, do hereby certify the foregoing to be a true, perfect and complete original of a resolution adopted by
President and Board of Trustees of Rantoul at a meeting held on June 08, 2021
Governing Body Type Name of Local Public Agency Date

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this Day day of Month, Year



**Illinois Department
of Transportation**

(SEAL)

**Resolution for Improvement
Under the Illinois Highway Code**



Clerk Signature

Date

--

--

Approved

Regional Engineer

Department of Transportation

Date

--

--

Ref
Award

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM	PAGE ____ OF ____
ITEM: Village Roadway Improvements Congress Avenue and Sheldon Street Resurfacing	DEPARTMENT: Public Works
AGENDA SECTION:	AMOUNT: \$1,440,957.70
ATTACHMENTS: ☐ ORDINANCE ☐ RESOLUTION ☒ OTHER (See Summary Highlights) ☒ SUPPORTING DOCUMENTS	DATE: July 26, 2021
SUMMARY HIGHLIGHTS: This Agenda Item provides for the roadway improvements associated with the resurfacing of Congress Avenue from Tanner Street to Klein Avenue and Sheldon Street from Champaign Avenue to Grove Avenue. The existing hot-mix asphalt surface will be milled and resurfaced with a new asphalt surface. Also included in project will be pavement patching, sidewalk ramp rehabs, pavement marking and other related work. The project was advertised in early July and bids were received on July 20, 2021. Two (2) contractors submitted bids and the Bid Tabulation is enclosed for reference. Cross Construction, Inc. has submitted the lowest responsive bid in the amount of \$1,440,957.70 and is the most cost-effective approach for the Village. The funds approved at the June Board Meeting total: \$1,196,432.00 \$426,432.00 Rebuild Illinois Bonds Funds (RBI) - Congress Resurfacing \$250,000.00 State Motor Fuel Tax (MFT) – Congress Resurfacing \$220,000.00 Community Development Block Grant (CDBG) – Congress Resurfacing \$250,000.00 State Motor Fuel Tax (MFT) – Sheldon Resurfacing \$50,000.00 State Motor Fuel Tax (MFT) – RTHS - Sheldon Resurfacing Because the project is slightly over budget staff will look to cut monies from the project. It is the most practical to remove the section of Congress Avenue from Tanner Street to Century Boulevard. This will allow for the Downtown Master Plan to be complete and give the project a needed contingency.	
RECOMMENDED ACTION: Authorize the approval of a contract with Cross Construction Inc, in the amount of \$1,440,957.70 for the roadway improvements associated with the resurfacing of Congress Avenue from Tanner Street to Klein Avenue and Sheldon Street from Champaign Avenue to Grove Avenue.	
DEPARTMENT HEAD APPROVAL: Jacob D. McCoy, P.E.	VILLAGE ADMINISTRATOR: Scott Eisenhauer
AGENDA PAGE NUMBER:	

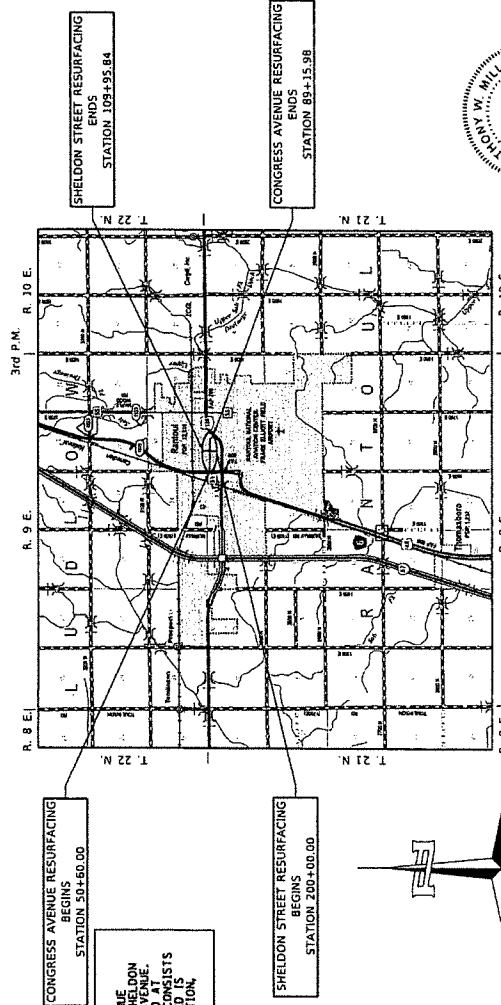
SECTION	20-00114-00-PV	TOTAL SHEET NO.	1
COUNTY	CHAMPAIGN	SHEET NO.	60
PROJECT	ILLINOIS		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR

VILLAGE OF RANTOUL, ILLINOIS CONGRESS AVENUE AND SHELDON STREET RESURFACING

SECTION 20-00114-00-PV
RESURFACING PROJECT

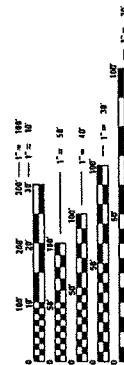
FOR INDEX OF SHEETS AND LIST OF HIGHWAY
STANDARDS, SEE SHEET NO. 2



LOCATION MAP
1 MI 0 1 MI
APPROXIMATE SCALE

CONGRESS AVENUE GROSS LENGTH = 2,331.11 FT = 0.745 MILES
SHELDON STREET GROSS LENGTH = 1,352.98 FT = 0.256 MILES
CONGRESS AVENUE NET LENGTH = 3,688.25 FT = 0.695 MILES
SHELDON STREET NET LENGTH = 1,247.51 = 0.236 MILES

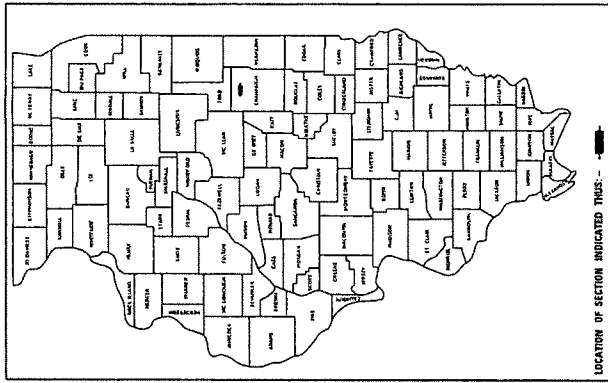
DESCRIPTION OF WORK
THIS PROJECT CONSISTS OF RESURFACING CONGRESS AVENUE FROM TANNER STREET EASTERLY TO ALLEN AVENUE, AND SHELDON STREET FROM CHAMPAIGN AVENUE NORTHERLY TO LUDLOW AVENUE. THE PROPOSED SURFACE CONSISTS OF 1 1/2" OF HOT-MIX ASPHALT SURFACE. ALSO INCLUDED IS PCC PAVEMENT PATCHING, SIDEWALK AND RAMP CONSTRUCTION, PAVEMENT MARKING AND RELATED WORK.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JULIE
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT MANAGER:
ANTHONY W. MILLER, P.E.
HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS



LOCATION OF SECTION INDICATED THUS: —

APPROVED <i>Anthony W. Miller</i> PUBLIC WORKS - VILLAGE OF RANTOUL	APPROVED <i>Charles Arnold</i> MAYOR - VILLAGE OF RANTOUL	PASSED
DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS		
RELEASING FOR BID		
BASED ON LIMITED REVIEW		
REGION 3 ENGINEER - ILLINOIS DEPT. OF TRANSPORTATION		



June 23, 2011
Exp. 11/30/12



Illinois Department
of Transportation

Local Public Agency
Formal Contract Proposal



COVER SHEET

Proposal Submitted By:			
Contractor's Name			
Cass Construction, Inc.			
Contractor's Address		City	State Zip Code
365 N Countryview Road		Urbana	IL 61802

STATE OF ILLINOIS

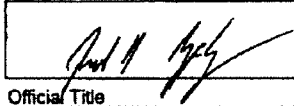
Local Public Agency	County	Section Number
Village of Rantoul	Champaign	20-00114-00-PV
Route(s) (Street/Road Name)		Type of Funds
Congress Avenue & Sheldon Street		MFT/RBI/CBDG

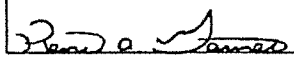
☐ Proposal Only ☐ Proposal and Plans ☒ Proposal only, plans are separate

Submitted/Approved

For Local Public Agency:

For a County and Road District Project	
Submitted/Approved	
Highway Commissioner Signature	Date
Submitted/Approved	
County Engineer/Superintendent of Highways	Date

For a Municipal Project	
Submitted/Approved/Passed	
Signature	Date
	6/29/21
Official Title	
Director of Public Works	

Department of Transportation	
Released for bid based on limited review	
Regional Engineer Signature	Date
	06/30/21

Note: All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Rantoul	Champaign	20-00114-00-PV	Congress Avenue & Sheldon St

NOTICE TO BIDDERS

Sealed proposals for the project described below will be received at the office of the Village of Rantoul Public Works

Public Works Building, 200 W. Grove Street, Rantoul, IL until 2:00 PM on 07/20/21
Address Time Date

Sealed proposals will be opened and read publicly at the office of the Village of Rantoul Public Works

Public Works Building, 200 W. Grove Street, Rantoul, IL at 2:00 PM on 07/20/21
Address Time Date

DESCRIPTION OF WORK

Location	Project Length
Village of Rantoul - Congress Avenue & Sheldon Street	1.047 miles

Proposed Improvement

This project consists of resurfacing Congress Avenue from Tanner Street to Klein Ave., and Sheldon St. from Champaign Ave. to Grove Ave. The existing hot-mix asphalt surface will be milled and resurfaced with hot-mix asphalt. Also included is PCC pavement patching, sidewalk, pavement marking, and related work.

1. Plans and proposal forms will be available in the office of

Electronically via the Hutchison Engineering Website at www.hutchisoneng.com under the Bidding Tab.

2. ☒ Prequalification

If checked, the 2 apparent as read low bidders must file within 24 hours after the letting an "Affidavit of Availability" (Form BC 57) in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work. One original shall be filed with the Awarding Authority and two originals with the IDOT District Office.

3. The Awarding Authority reserves the right to waive technicalities and to reject any or all proposals as provided in BLRS Special Provision for Bidding Requirements and Conditions for Contract Proposals.

4. The following BLR Forms shall be returned by the bidder to the Awarding Authority:

- Local Public Agency Formal Contract Proposal (BLR 12200)
- Schedule of Prices (BLR 12201)
- Proposal Bid Bond (BLR 12230) (if applicable)
- Apprenticeship or Training Program Certification (BLR 12325) (do not use for project with Federal funds.)
- Affidavit of Illinois Business Office (BLR 12326) (do not use for project with Federal funds)

5. The quantities appearing in the bid schedule are approximate and are prepared for the comparison of bids. Payment to the Contractor will be made only for the actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as hereinafter provided.

6. Submission of a bid shall be conclusive assurance and warranty the bidder has examined the plans and understands all requirements for the performance of work. The bidder will be responsible for all errors in the proposal resulting from failure or neglect to conduct an in depth examination. The Awarding Authority will, in no case, be responsible for any costs, expenses, losses or changes in anticipated profits resulting from such failure or neglect of the bidder.

7. The bidder shall take no advantage of any error or omission in the proposal and advertised contract.

8. If a special envelope is supplied by the Awarding Authority, each proposal should be submitted in that envelope furnished by the Awarding Agency and the blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Awarding Authority is used, it shall be marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Awarding Authority at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the Notice to Bidders. Proposals received after the time specified will be returned to the bidder unopened.

9. Permission will be given to a bidder to withdraw a proposal if the bidder makes the request in writing or in person before the time for opening proposals.

Local Public Agency	County	Section Number	Route(s) (Street/Road Name)
Village of Rantoul	Champaign	20-00114-00-PV	Congress Avenue & Sheldon St

PROPOSAL

- Proposal of Cross Construction, Inc.

Contractor's Name

3615 N Countryview Road, Urbana, IL 61802

Contractor's Address
- The plans for the proposed work are those prepared by Hutchison Engineering, Inc.
and approved by the Department of Transportation on _____.
- The specifications referred to herein are those prepared by the Department of Transportation and designated as "Standard Specifications for Road and Bridge Construction" and the "Supplemental Specifications and Recurring Special Provisions" thereto, adopted and in effect on the date of invitation for bids.
- The undersigned agrees to accept, as part of the contract, the applicable Special Provisions indicated on the "Check Sheet for Recurring Special Provisions" contained in this proposal.
- The undersigned agrees to complete the work within 60 working days or by _____ unless additional time is granted in accordance with the specifications.
- The successful bidder at the time of execution of the contract Will be required to deposit a contract bond for the full amount of the award. When a contract bond is not required, the proposal guaranty check will be held in lieu thereof. If this proposal is accepted and the undersigned fails to execute a contract and contract bond as required, it is hereby agreed that the Bid Bond of check shall be forfeited to the Awarding Authority.
- Each pay item should have a unit price and a total price. If no total price is shown or if there is a discrepancy between the products of the unit price multiplied by the quantity, the unit price shall govern. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price. A bid may be declared unacceptable if neither a unit price nor a total price is shown.
- The undersigned submits herewith the schedule of prices on BLR 12201 covering the work to be performed under this contract.
- The undersigned further agrees that if awarded the contract for the sections contained in the combinations on BLR 12201, the work shall be in accordance with the requirements of each individual proposal for the multiple bid specified in the Schedule for Multiple Bids below.
- A proposal guaranty in the proper amount, as specified in BLRS Special Provision for Bidding Requirements and Conditions for

Contract Proposals, will be required. Bid Bonds Will be allowed as a proposal guaranty. Accompanying this proposal is either a bid bond, if allowed, on Department form BLR 12230 or a proposal guaranty check, complying with the specifications, made payable to:

Treasurer of Village of Rantoul

The amount of the ~~check~~ is 5% of the total amount bid (_____).
Bid Bond

Attach Cashier's Check or Certified Check Here

In the event that one proposal guaranty check is intended to cover two or more bid proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual bid proposal. If the proposal guaranty check is placed in another bid proposal, state below where it may be found.

The proposal guaranty check will be found in the bid proposal for: Section Number 20-00114-00-PV.



Contractor's Name

Cross Construction, Inc.

Contractor's Address

3615 N Countryview Road

City

Urbana

State

IL

Zip Code

61802

Local Public Agency

Village of Rantoul

County

Champaign

Section Number

20-00114-00-PV

Route(s) (Street/Road Name)

Congress Avenue & Sheldon Street

Schedule for Multiple Bids

Combination Letter	Section Included in Combinations	Total

Schedule for Single Bid

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

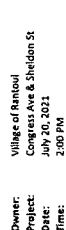
Item Number	Items	Unit	Quantity	Unit Price	Total
20800150	TRENCH BACKFILL	CU YD	75	160.00	12,000.00
28000500	INLET AND PIPE	EACH	42	235.00	9,870.00
	PROTECTION				
35100700	AGGREGATE BASE COURSE,	SQ YD	106	30.00	3,180.00
	TYPE A 8"				
40600275	BITUMINOUS MATERIALS	POUND	238	3.20	761.60
	(PRIME COAT)				
40600290	BITUMINOUS MATERIALS	POUND	11520	2.00	23,040.00
	(TACK COAT)				
40600982	HOT-MIX ASPHALT SURFACE	SQ YD	47	40.00	1,880.00
	REMOVAL - BUTT JOINT				
40600990	TEMPORARY RAMP	SQ YD	451	16.00	7,216.00
40603080	HOT-MIX ASPHALT BINDER	TON	21	310.00	6,510.00
	COURSE, IL-19.0, N50				
40604050	HOT-MIX ASPHALT SURFACE	TON	2146	125.00	268,250.00
	COURSE, IL-9.5, MIX "C", N50				
40800050	INCIDENTAL HOT-MIX	TON	4	1,700.00	6,800.00
	ASPHALT SURFACING				
42001300	PROTECTIVE COAT	SQ YD	2118	.30	635.40

Local Public Agency		County	Section Number		Route(s) (Street/Road Name)
Village of Rantoul		Champaign	20-00114-00-PV		Congress Avenue & She
Item Number	Items	Unit	Quantity	Unit Price	Total
42300400	PORTLAND CEMENT	SQ YD	63	105.00	6,615.00
	CONCRETE DRIVEWAY				
	PAVEMENT, 8 INCH				
42400100	PORTLAND CEMENT	SQ FT	15491	13.00	201,383.00
	CONCRETE SIDEWALK 4				
	INCH				
42400800	DETECTABLE WARNINGS	SQ FT	503	42.00	21,126.00
44000100	PAVEMENT REMOVAL	SQ YD	280	14.00	3,920.00
44000155	HOT-MIX ASPHALT SURFACE	SQ YD	25441	3.00	76,323.00
	REMOVAL, 1 1/2"				
44000200	DRIVEWAY PAVEMENT	SQ YD	222	115.00	25,530.00
	REMOVAL				
44000500	COMBINATION CURB AND	FOOT	1289	21.00	27,069.00
	GUTTER REMOVAL				
44000600	SIDEWALK REMOVAL	SQ FT	12286	6.00	73,716.00
44200994	CLASS B PATCHES, TYPE II,	SQ YD	765	250.00	191,250.00
	12 INCH				
44200998	CLASS B PATCHES, TYPE III,	SQ YD	36	190.00	6,840.00
	12 INCH				
44201798	CLASS D PATCHES, TYPE I,	SQ YD	5	235.00	1,175.00
	13 INCH				
44201803	CLASS D PATCHES, TYPE II,	SQ YD	47	235.00	11,045.00
	13 INCH				
56400300	FIRE HYDRANTS TO BE	EACH	2	1,350.00	2,700.00
	ADJUSTED				
60219300	MANHOLES, TYPE A, 4'-	EACH	1	3,500.00	3,500.00
	DIAMETER, TYPE 11 FRAME				
	AND GRATE				
60221100	MANHOLES, TYPE A, 5'-	EACH	1	4,100.00	4,100.00
	DIAMETER, TYPE 1 FRAME,				
	CLOSED LID				
60222000	MANHOLES, TYPE A, 5'	EACH	1	4,000.00	4,000.00
	DIAMETER, TYPE 11 FRAME				
	AND GRATE				
60236800	INLETS, TYPE A, TYPE 11	EACH	2	2,000.00	4,000.00
	FRAME AND GRATE				
60255500	MANHOLES TO BE	EACH	24	1,800.00	43,200.00

Local Public Agency		County		Section Number		Route(s) (Street/Road Name)	
Village of Rantoul		Champaign		20-00114-00-PV		Congress Avenue & She	
	ADJUSTED						
60260100	INLETS TO BE ADJUSTED	EACH	19	800.00	15,200.00		
60263900	INLETS TO BE	EACH	1	1,400.00	1,400.00		
	RECONSTRUCTED WITH						
	NEW TYPE 11 FRAME AND						
	GRATE						
60266600	VALVE BOXES TO BE	EACH	2	600.00	1,200.00		
	ADJUSTED						
60500040	REMOVING MANHOLES	EACH	2	600.00	1,200.00		
60500060	REMOVING INLETS	EACH	1	300.00	300.00		
60603800	COMBINATION CONCRETE	FOOT	843	60.00	50,580.00		
	CURB AND GUTTER,						
	TYPE B-6.12						
60604400	COMBINATION CONCRETE	FOOT	199	70.00	13,930.00		
	CURB AND GUTTER,						
	TYPE B-6.18						
60605000	COMBINATION CONCRETE	FOOT	272	95.00	25,840.00		
	CURB AND GUTTER,						
	TYPE B-6.24						
67100100	MOBILIZATION	L SUM	1	30,000.00	30,000.00		
70300100	SHORT TERM PAVEMENT	FOOT	479	2.80	1,341.20		
	MARKING						
70300150	SHORT TERM PAVEMENT	SQ FT	160	16.00	2,560.00		
	MARKING REMOVAL						
70300210	TEMPORARY PAVEMENT	SQ FT	35	7.00	245.00		
	MARKING - LETTERS AND						
	SYMBOLS						
70300220	TEMPORARY PAVEMENT	FOOT	6973	2.10	14,643.30		
	MARKING - LINE 4"						
70300240	TEMPORARY PAVEMENT	FOOT	2268	3.10	7,030.80		
	MARKING - LINE 6"						
70300260	TEMPORARY PAVEMENT	FOOT	1190	6.30	7,497.00		
	MARKING - LINE 12"						
70300280	TEMPORARY PAVEMENT	FOOT	462	13.00	6,006.00		
	MARKING - LINE 24"						
72000100	SIGN PANEL - TYPE 1	SQ FT	374	36.00	13,464.00		
72400310	REMOVE SIGN PANEL -	SQ FT	239	20.00	4,780.00		
	TYPE 1						

Local Public Agency		County		Section Number		Route(s) (Street/Road Name)
Village of Rantoul		Champaign		20-00114-00-PV		Congress Avenue & She
72800100	TELESCOPING STEEL SIGN	FOOT	821	18.00	14,778.00	
	SUPPORT					
78000100	THERMOPLASTIC PAVEMENT	SQ FT	35	21.00	735.00	
	MARKING - LETTERS AND					
	SYMBOLS					
78000200	THERMOPLASTIC PAVEMENT	FOOT	6973	3.40	23,708.20	
	MARKING - LINE 4"					
78000400	THERMOPLASTIC PAVEMENT	FOOT	2268	5.10	11,566.80	
	MARKING - LINE 6"					
78000600	THERMOPLASTIC PAVEMENT	FOOT	1190	10.20	12,138.00	
	MARKING - LINE 12"					
78000650	THERMOPLASTIC PAVEMENT	FOOT	462	20.50	9,471.00	
	MARKING - LINE 24"					
X0301834	STORM SEWER TO BE	FOOT	51	35.00	1,785.00	
	FILLED					
X0327980	PAVEMENT MARKING	SQ FT	5571	1.40	7,799.40	
	REMOVAL - WATER					
	BLASTING					
X7010216	TRAFFIC CONTROL AND	L SUM	1	38,000.00	38,000.00	
	PROTECTION, (SPECIAL)					
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	32,000.00	32,000.00	
Z0033700	LONGITUDINAL JOINT	FOOT	8128	3.00	24,384.00	
	SEALANT					
Z0056608	STORM SEWER (WATER	FOOT	188	105.00	19,740.00	
	MAIN REQUIREMENTS)					
	12 INCH					
Bidder's Total Proposal						\$ 1,440,957.70

1. Each pay item should have a unit price and a total price.
2. If no total price is shown or if there is a discrepancy between the product of the unit price multiplied by the quantity, the unit price shall govern.
3. If a unit price is omitted, the total price will be divided by the quantity in order to establish a unit price.
4. A bid may be declared unacceptable if neither a unit price or total price is shown.



Total:	\$1,205,311.55	Calculated:	\$1,449,557.70	Calculated:	\$1,993,523.07
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Ref

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM	PAGE OF
ITEM: Local Agency Resolution for Improvement for the Construction of the resurfacing of Congress Avenue and Sheldon Street	DEPARTMENT: Public Works
AGENDA SECTION:	AMOUNT: <u>\$1,196,432.00</u> \$426,432.00 RBI - Congress Resurfacing \$250,000.00 MFT – Congress Resurfacing \$220,000.00 CDBG – Congress Resurfacing \$250,000.00 MFT – Sheldon Resurfacing \$50,000.00 MFT – RTHS - Sheldon Resurfacing
ATTACHMENTS: ☐ ORDINANCE ☒ RESOLUTION ☐ OTHER (See Summary Highlights) ☒ SUPPORTING DOCUMENTS	DATE: May 26, 2021
SUMMARY HIGHLIGHTS: This Agenda Item provides for the formal allocation of Illinois Department of Transportation (IDOT) REBUILD Illinois Bond (RBI) funds in the amount of \$426,432.00; for the formal allocation of (IDOT) Motor Fuel Tax (MFT) funds in the amount of \$550,000.00; for the formal allocation of The Community Development Block Grant (CDBG) Program funds in the amount of \$220,000.00; for the roadway improvements associated with the resurfacing of Congress Avenue from Tanner Street to Klein Avenue and Sheldon Street from Champaign Avenue to Grove Avenue. The existing hot-mix asphalt surface will be milled and resurfaced with a new asphalt surface. Also included in project will be pavement patching, sidewalk ramp rehabs, pavement marking and other related work. IDOT has created the Local REBUILD Illinois Bond Funds (RBI) and IDOT intends to disburse the \$1.5 billion in RBI funds in six installments over the course of three years. The Village has been allocated, based on population, \$142,144.00 per installment. The Village has received three installments to date totaling \$426,432.00, which will be used to fund Congress & Sheldon resurfacing project. State Motor Fuel Tax (MFT) will be used to fund the balance. The project will be locally let with a projected construction start date of August 1, 2021.	
RECOMMENDED ACTION: Authorize the approval for the formal allocation of (IDOT) REBUILD Illinois Bond (RBI) funds in the amount of \$426,432.00; for the formal allocation of (IDOT) (MFT) funds in the amount of \$550,000.00; for the formal allocation of (CDBG) Program funds in the amount of \$220,000.00; for the roadway improvements associated with the resurfacing of Congress Avenue from Tanner Street to Klein Avenue and Sheldon Street from Champaign Avenue to Grove Avenue.	
DEPARTMENT HEAD APPROVAL: Jacob D. McCoy, P.E. <i>JDM</i>	VILLAGE ADMINISTRATOR: Scott Eisenhauer
AGENDA PAGE NUMBER:	

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Authorize and Approve the Agreement with POW-R-GUARD for the semi-annual preventative maintenance of the Caterpillar emergency standby generators, in the amount of \$52,208.00 per year.	DEPARTMENT: Public Works
DATE: March 1, 2022	AMOUNT: \$52,208.00 per year \$313,248.00 Total
ATTACHMENTS: 1. Generator Maintenance - POW-R-GUARD	ADMINISTRATIVE NOTES:

SUMMARY HIGHLIGHTS:

This Agenda Item provides the six-year POW-R-GUARD Agreement for the semi-annual preventative maintenance of the Village's eight (8) Caterpillar emergency standby generators with Altorfer CAT Power System, in the amount of \$52,208.00 per year. The eight generators were purchased in 1999, requiring much more maintenance due to their age. The Village is a Total Requirement Member of the Illinois Municipal Electric Agency (IMEA), which requires that these generators are operational at all times. If a generator should go "down," the Village would be fined. This semi-annual preventative maintenance plan will minimize the number of unexpected problems, allowing the Village to budget our operations expenses, and maximize our facility's "up" status.

The following is a summary of the service levels included in this agreement:

Type	Description	Visit Quantity
Service Level 1	Comprehensive Inspection	48
Service Level 2	Service Level 1, plus Full Service	48
Service Level 3	Valve Adjustment	16
Service Level 4	Engine Cooling System Service	8
Service Level 4a	Interm. Cooling System Service (Long Life)	8
Service Level 7	Starting Battery Replacement Service	16
Service Level 13a	Diesel Fuel Analysis – Basis Check	48

This project is included in the FY22 Budget (through Budget FY27) in the amount of \$52,208.00 per year.

RECOMMENDED ACTION: Approve the six-year POW-R-GUARD Agreement for semi-annual preventative maintenance for the Village's eight (8) Caterpillar emergency standby generators in the amount of \$52,208.00 per year, \$313,248.00 total.

DEPARTMENT HEAD APPROVAL
Jacob D. McCoy, P.E.

VILLAGE ADMINISTRATOR
Scott Eisenhauer



ALTORFER
Power Systems



August 30, 2021

Quote#: 21-SW-18978-N

Customer # 379650

Village Of Rantoul

Attention: Randy Etheridge

Po Box 38

Rantoul , IL 61866

Reference: Semi Annual Preventative Maintenance for 3516B Generators

A Six Year POW-R-GUARD Maintenance Agreement for Caterpillar Emergency Standby Generator(s).

Caterpillar	3516B	07RN00741	Caterpillar	3516B	07RN00743
Caterpillar	3516B	07RN00744	Caterpillar	3516B	07RN00767
Caterpillar	3516B	07RN00914	Caterpillar	3516B	07RN00915
Caterpillar	3516B	07RN00985	Caterpillar	3516B	07RN00986

Thank you for allowing Altorfer Power Systems the opportunity to provide a scheduled maintenance plan for your power generation system. These services have been tailored to your company's requirements and specific needs, while following Caterpillar's published schedules. A complete description of the services offered is included in this proposal package. The following is a summary of the service levels included in this agreement:

NOTE: Any specific training required to perform these services will be billed at normal time and material rates.

Type	Description	Visit Qty
Service Level 1	Comprehensive Inspection	48
Service Level 2	Service Level 1, Plus Full Service	48
Service Level 3	Valve Adjustment	16
Service Level 4	Engine Cooling System Service	8
Service Level 4a	Interm. Cooling System Service(Long Life)	8
Service Level 7	Starting Battery Replacement Service	16
Service Level 13A	Diesel Fuel Analysis - Basic Check	48

**Service Level intervals are based on 250 or less run hours per year.

SerialNum	Visit Qty	Invoice Amount
07RN00741	12	\$3,263
07RN00744	12	\$3,263
07RN00767	12	\$3,263
07RN00914	12	\$3,263
07RN00915	12	\$3,263
07RN00985	12	\$3,263
07RN00986	12	\$3,263
07RN00743	12	\$3,263

6526 per year

52208

Altorfer Inc.

1519 West Kenyon Road, Urbana, IL 61801

Phone: FAX: (217) 359-6310

August 30, 2021

Quote#: 21-SW-18978-N

This maintenance plan will minimize the number of unexpected problems, allow you to budget your operating expenses, and maximize your facility's "up" status. All services will be performed by qualified CATERPILLAR trained technicians assuring that your generator system is maintained in accordance with all manufacturer's guidelines. Further, with the authorized CATERPILLAR dealer handling the maintenance, you can be assured of receiving any suggested or mandated product improvement updates that your equipment would require. The services provided will discover any possible discrepancies before they become a serious problem, which could lead to unnecessary down time of your system.

Altorfer Power Systems is capable of addressing all of your power generation needs from scheduled maintenance to failure diagnosis and repairs. To further your investment, we offer the following types of support:

- * 24 Hours, 7 days A Week, Emergency Service
- * Emergency Generator Rentals
- * 25+ CATERPILLAR Trained Generator Field Service Technicians Company Wide
- * In House Transfer Switch and Switchgear Repair
- * \$1.5 Million In Parts Inventory With Instant Access to CAT Worldwide Parts in Morton, IL.

All services performed will be covered by a 6-month warranty against materials and workmanship defects. All remedies under this warranty are expressly limited to replacing parts or making repairs in accordance with the warranty guidelines. Claims for loss arising out of any failure or the repaired equipment to operate for the warranty period or for loss arising from expenses incurred due to, or in connection with the failure of the repaired equipment, including any and all claims for consequential damages, are expressly excluded. Pricing is based on services performed during normal business hours.

In the event either party would decide to terminate this agreement, a 30 day written notice is required. (Cancellation charges may apply if the actual work completed exceeds the amount of total payments made prior to agreement termination.)

Pricing is valid for 60 days from quote date. To accept this proposal, please sign below. Please return the ACCEPTED copy to me. If you have any questions, or if I may be of additional service, please don't hesitate to contact me.

Sincerely,

Sean Whalen
PSSR
Cell: (217) 622-2132
E-mail: sean.whalen@altorfer.com

ACCEPTED: _____ DATE: _____
TITLE: _____ PO#: _____

Altorfer Inc.

1519 West Kenyon Road, Urbana, IL 61801
Phone: FAX: (217) 359-6310

ALTORFER
Power Systems



Maintenance Interval Schedule for STANDBY* Generator Sets

*Less than 250 operational hours per year

EVERY YEAR

Air Starting Motor Lubricator Bowl – Clean
Alternator – Inspect
Alternator and Fan Belts – Inspect/Adjust/Replace
Generator Bearing (Ball) – Lubricate
Bearing (Spherical Roller) – Lubricate
Cooling System Coolant Analysis (Level II) – Obtain
Cooling System Supplemental Coolant Additive (SCA) – Test/Add
Crankshaft Vibration Damper – Inspect
Engine – Clean
Engine Air Cleaner Element (Dual Element) – Clean/Replace
Engine Air Cleaner Element (Single Element) – Clean/Replace
Engine Crankcase Breather – Clean
Engine Mounts – Check
Engine Oil Sample – Obtain
Engine Oil and Filter – Change
Engine Protective Devices – Check
Engine Valve Lash – Inspect/Adjust
Fuel System Primary Filter – Clean/Inspect/Replace
Fuel System Secondary Filter – Replace
Generator – Inspect/Dry
Generator Set Vibration – Inspect
Hoses and Clamps – Inspect/Replace
Insulation – Test
Prelube Pump – Inspect
Radiator – Inspect/Clean
Starting Motor – Inspect
Stator Lead – Check
Water Pump – Inspect

****Reference CATERPILLAR Operation and Maintenance Manual: SEBU7508-02**

ALTORFER
Power Systems



Maintenance Interval Schedule for STANDBY* Generator Sets

*Less than 250 operational hours per year

EVERY 3 YEARS

Batteries – Replace

Cooling System Coolant (DEAC) – Change

Cooling System Coolant Extender (ELC) – Add

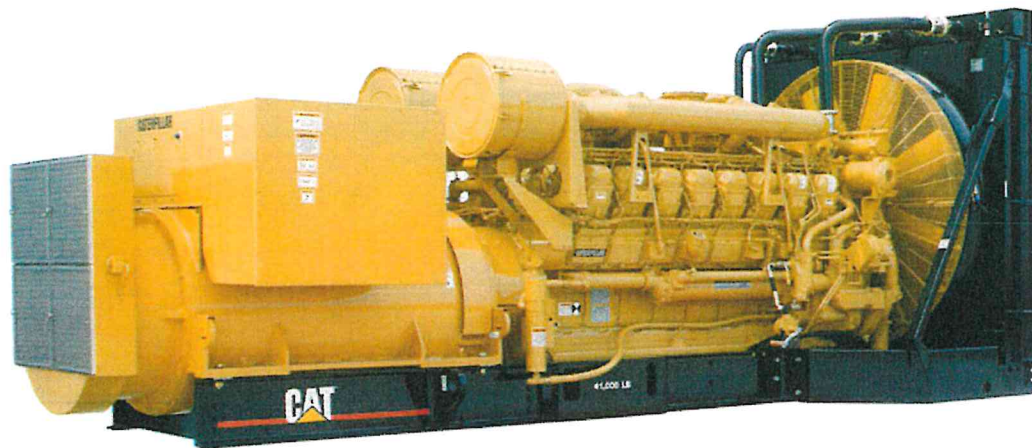
Cooling System Water Temperature Regulator – Replace

Rotating Rectifier – Check

Turbocharger(s) – Inspect

EVERY 6 YEARS

Cooling System Coolant (ELC) – Change



****Reference CATERPILLAR Operation and Maintenance Manual: SEBU7508-02**



Maintenance Interval Schedule for STANDBY* Generator Sets

*Less than 250 operational hours per year

EVERY WEEK

Air Inlet Filter – Check
Air Starting Motor Lubricator Oil Level – Check
Air Tank Moisture and Sediment – Drain
Annunciator Panel – Inspect
Battery Charger – Check
Battery Electrolyte Level – Check
Bearing Temperature – Measure/Record
Cooling System Coolant Level – Check
Electrical Connections – Check
Engine Air Cleaner Service Indicator – Inspect
Engine Air Precleaner – Clean
Engine Oil Level – Check
Fuel Tank Water and Sediment – Drain
Generator – Inspect
Generator Load – Check
Jacket Water Heater – Check
Power Factor – Check
Space Heater – Check
Exercise - Per Standby Generator Set Maintenance Recommendations
Stator Winding Temperature – Measure/Record
Voltage and Frequency – Check
Walk-Around Inspection

****Reference CATERPILLAR Operation and Maintenance Manual: SEBU7508-02**



ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan **Service Level 1 – (A Comprehensive Inspection)**

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- Complete inspection of engine, generator, and associated equipment, including: battery charger, jacket water heater, control panel, and gauges.
- Testing of engine safety shutdowns.
- Inspection of mounting system, fuel system, air intake/exhaust system.
- Caterpillar Scheduled Oil Sampling (SOS) of lube oil to check for contaminants and wear metal trends.
- Check engine/generator and research for any Caterpillar recommended or mandated product improvements.
- Documentation of service performed with recommendations for any areas requiring additional service.
- Disposal of any used parts and fluids in accordance with current EPA regulations.

SL-1



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Power Systems



POW-R-GUARD Maintenance Plan

Service Level 2 – (Service Level 1, Plus Full Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- Complete inspection of engine, generator, and associated equipment, including: battery charger, jacket water heater, control panel, and gauges.
- Testing of engine safety shutdowns.
- Inspection of mounting system, fuel system, air intake/exhaust system.
- Caterpillar Scheduled Oil Sampling (SOS) of lube oil to check for contaminants and wear metal trends.
- Coolant Analysis – Level II
- Removal and replacement of engine lube oil.
- Replacement of lube oil filter(s) and fuel filter(s).
- Documentation of service performed with recommendations for any areas requiring additional service.
- Disposal of any used parts and fluids in accordance with current EPA regulations.

SL-2

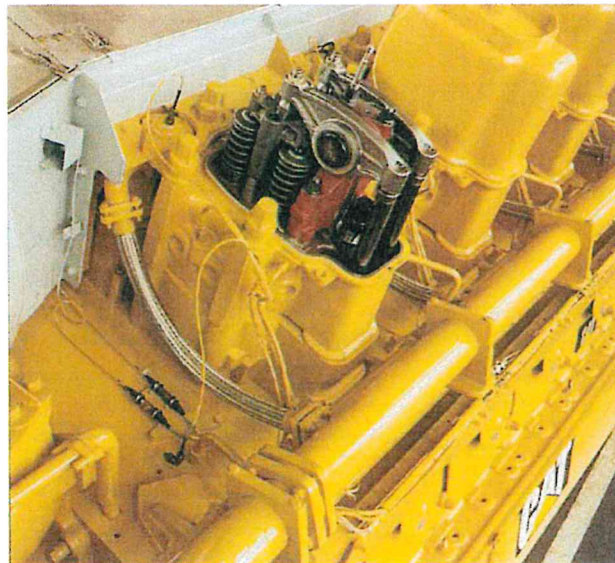


ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan Service Level 3 – (Valve Adjustment Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- Adjustment of engine exhaust and intake valves on each cylinder to factory specifications.
- Adjustment of fuel injector timing.
- Test run engine and perform basic condition inspection of unit.
- Documentation of service performed with recommendations for any areas requiring additional service.
- Disposal of any used parts and fluids in accordance with current EPA regulations.

SL-3



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POW-R-GUARD Maintenance Plan Service Level 4 – (Engine Cooling System Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- Flush the engine cooling system in accordance Caterpillar guidelines.
- Drain and refill the cooling system with the appropriate mixture of Caterpillar antifreeze/coolant conditioner.
- Replace radiator and jacket water heater coolant hoses.
- Replace engine thermostats.
- Alternator and fan belts – inspect/adjust/replace.
- Test run engine and perform basic condition inspection of unit.
- Documentation of service performed with recommendations for any areas requiring additional service.
- Disposal of any used parts and fluids in accordance with current EPA standards.

SL-4



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POW-R-GUARD Maintenance Plan

Service Level 4a – (LLC Intermediate Coolant Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- Add Caterpillar Long Life Coolant Extender Package.
- Replace jacket water heater hoses.
- Alternator and fan belts – inspect/adjust.
- Test run engine and perform basic condition inspection of unit.
- Documentation of service performed with recommendations for any areas requiring additional service.
- Disposal of any used parts and fluids in accordance with current EPA regulations.

SL-4a



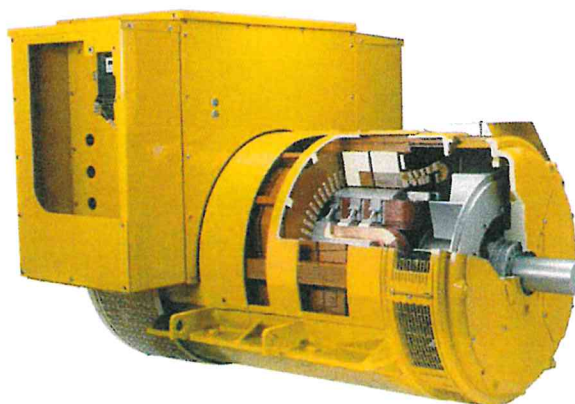
ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan

Service Level 5 – (Generator Megohmmeter Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- A Megohmmeter (Polarization Index) test of the generator main stator windings provides a qualitative evaluation of the insulation on the main windings. It is useful in assessing the suitability of the generator for continued use and in formulating recommendations for possible remedial action.

Note - Electrical windings in generators are covered with epoxy insulation. Over time, this insulation can break down due to vibration, general usage, moisture, dust and can cause electrical shorts or poor performance. A Megohmmeter (Polarization Index) test will identify any degradation of the insulation and can be trended over time to determine when corrective action should be taken to prevent a costly failure.

- Inspect operation of generator space heaters.
- Test run engine/generator and perform basic condition inspection of unit.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-5



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POW-R-GUARD Maintenance Plan Service Level 6 – (Loadbank Testing Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- A Loadbank Test confirms the ability of your generator and it's associated systems to produce a given kW under installed conditions.
- Critical performance measurements are monitored and recorded every 15-minutes, including engine parameters, as well as electrical readings.
- Additional benefits of this service include – Reseating of piston rings in the cylinder liners. Also, burns off carbon deposits in the combustion chamber, injector nozzles, piston rings, turbocharger, and exhaust system. Dissipates any condensation build-up in generator windings.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-6



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Power Systems



POW-R-GUARD Maintenance Plan Service Level 7 – (Battery Replacement Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians and utilizing only Genuine Caterpillar Parts.



- Check of battery charging system to insure proper function.
- Removal and disposal of old batteries in accordance with EPA regulations.
- Installation of Caterpillar heavy duty, high capacity batteries.
- Inspection of battery cables and connections.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-7

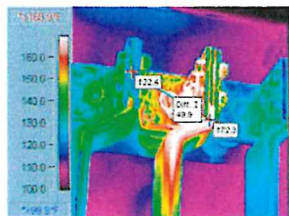


ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan **Service Level 8 – (Switchgear Inspection Service)**

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians.



- Conforms to 2007 InterNational Electrical Testing Association (NETA) Specifications.
- Check for visual signs of moisture, carbon tracking, corona, overheating, and insulation deterioration. Inspection in accordance with 2007 NETA Specifications 7.1.1.
- Check and replace all control panel indicator lights and fuses, as needed.
- Verify operation of switchgear/switchboard heaters, if applicable.
- Wipe down exterior of control cubicles. Clean interior of cubicles and remove accumulated dust and dirt in accordance with 2007 NETA Specifications 7.1.1.
- Check protective relays and protective sensing devices for any fault indications. Log and report all fault indications found. Reset fault indicators only with the permission of the customer's engineer or authorized representative.
- Review event logs and advise corrective action, if needed.
- Test run engine/generator(s) under load. Check and adjust voltage/frequency, if necessary.
- Perform thermographic survey in accordance with 2007 NETA Specifications Section 9.
- Perform circuit breaker visual and mechanical inspection in accordance with 2007 NETA specifications Section 7.6. Circuit breaker lubrication, as needed.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-8



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Power Systems



POW-R-GUARD Maintenance Plan **Service Level 9 – (Switchgear Elec. Testing Service)**

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians.



- Conforms to 2007 InterNational Electrical Testing Association (NETA) Specifications.
- Perform all visual and mechanical inspection items included in Service Level 8.
- Perform ground resistance tests in accordance with 2007 NETA Specifications 7.13.
- Perform insulation-resistance tests on each bus section, phase-to-phase and phase-to-ground, for one minute in accordance with 2007 NETA Specifications Table 100.1.
- Perform system function tests in accordance with 2007 NETA Specifications Section 8.
- Test control power and voltage transformers in accordance with 2001 NETA Specifications Section 7.1.8.
- Perform circuit breaker electrical test procedures in accordance with 2007 NETA Specifications Section 7.6.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-9



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Power Systems



POW-R-GUARD Maintenance Plan **Service Level 10 – (Switchgear Relay Testing Service)**

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians.



- Conforms to 2007 InterNational Electrical Testing Association (NETA) Specifications.
- Visual and mechanical inspection in accordance with 2007 NETA Specifications 7.9.
- Download and verify all relay settings are in accordance with coordination study or setting sheet supplied by owner.
- Perform electrical tests in accordance with 2007 NETA Specifications 7.9 and manufacturer's recommendations.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-10



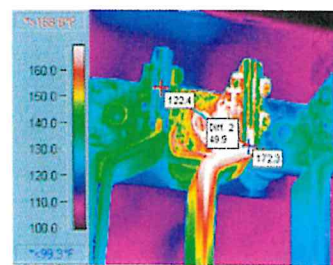
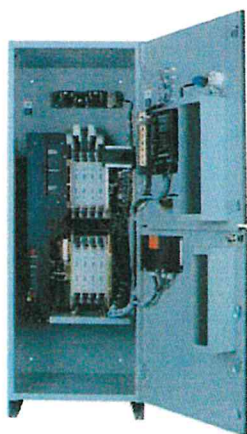
ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan

Service Level 12 – (ATS Visual & Mech. Inspection)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians.



- Conforms to 2007 InterNational Electrical Testing Association (NETA) Specifications.
- Visual and mechanical inspection in accordance with 2007 NETA Specifications 7.22.3.
- Inspect and clean unit.
- Lubricate moving parts and sliding surfaces.
- Verify tightness of all connections.
- Perform a thermographic imaging survey.
- Perform manual transfer operation.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-12



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Power Systems



POW-R-GUARD Maintenance Plan Service Level 13 – (Diesel Fuel Sample Analysis)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system.



- Obtain diesel fuel sample from customer fuel system.
- Perform diagnostic lab testing per the following:

TEST	UNITS	METHOD
API Gravity	Degrees API	ASTM D1298
Appearance		
Color		ASTM D1500
Dissolved Water by K.F.	PPM	ASTM D6304
Corrosion Copper Strip	Degrees C	ASTM D130
Distillation, IBP	Degrees F	ASTM D86
Distillation, 10% Recovery	Degrees F	ASTM D86
Distillation, 50% Recovery	Degrees F	ASTM D86
Distillation, 90% Recovery	Degrees F	ASTM D86
Distillation, End Point	Degrees F	ASTM D86
Cetane Index		ASTM D976
Neutralization Number		D974
Sediment & Water	Vol %	ASTM D2709
Stability/Accelerated Aging	Du Pont F21-61	Du Pont F21-61
Flash Point	PMCC	ASTM D93
Sulfur	PPM	ASTM D93
Microbial Growth	Pos/Neg	Microscopic/Culture Growth

- Satisfies JCAHO accreditation requirements.

SL-13

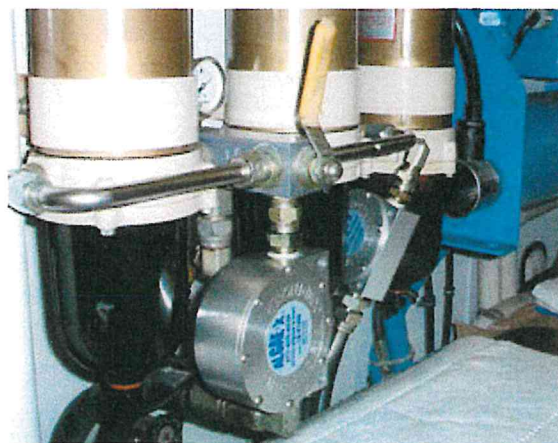


ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan Service Level 14 – (Diesel Fuel Polishing)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system.



This service provides a full service fuel cleaning solution utilizing a three stage mobile tank cleaning system. This system will recondition, stabilize, and decontaminate your fuel. It removes water, sludge, and sediments that naturally accumulate in diesel fuel tanks.

STAGE 1 – The separator/coalesce removes water and particulates.

STAGE 2 – The ALGAE-X Fuel Conditioner reconditions and stabilizes the fuel.

STAGE 3 – The industrial type water block fine filter removes emulsified water and very fine solids down to 3 microns.

- Eliminates Tank Sludge
- Improves Fuel Economy – Lowers Operating Cost
- Enhances Engine Performance – Reduces Harmful Emissions
- Reduces Maintenance and Downtime
- Extends Engine Life – Cleans Fuel Injection Systems
- Increases Safety and Reliability

**Filters and fuel catalyst not included. Quantity based on volume and cleanliness of fuel.

SL-14

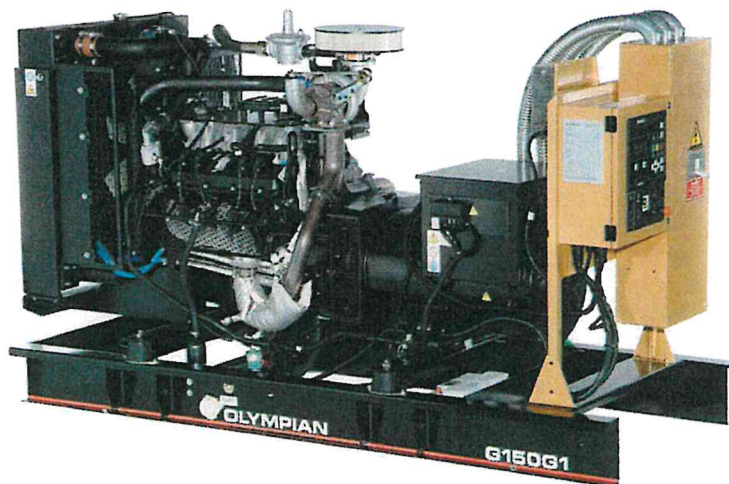


ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan Service Level 15 – (Gas Genset Tune-Up Service)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall generator operating costs, prolong component life, and increase the reliability of your complete generator power system. All services are performed by qualified factory trained technicians.



This Service Applies to Small Gas Gensets – Rated Less Than 150kW Standby:

- Replace distributor cap.
- Replace rotor, if equipped.
- Replace spark plugs and spark plug wires.
- Check gas pressures.
- Replace air filter.
- Check lube oil level.
- Check coolant level.
- Engine test run.
- Documentation of service performed with recommendations for any areas requiring additional service.
- Disposal of any used parts and fluids in accordance with current EPA regulations.

SL-15



ALTORFER
Power Systems



POW-R-GUARD Maintenance Plan

Service Level 16 – (Battery UPS System Maintenance)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall operating costs, prolong component life, and increase the reliability of your complete emergency power system.



- UPS, Battery charger and/or inverter inspection and cleaning.
- Battery charger capacity and current limit tests.
- Battery charger float and equalize voltage checks and adjustment, if necessary.
- UPS system functional tests.
- Battery cell specific gravity, temperature, level, and voltage checks. (Wet Cell Only)
- Battery discharge test.
- Documentation of service performed with recommendations for any areas requiring additional service.

SL-16



POW-R-GUARD Maintenance Plan Service Level 17 – (Substation DC Maintenance)

This plan is a preventative maintenance and inspection program specifically designed to reduce overall operating costs, prolong component life, and increase the reliability of your complete emergency power system.



- Station checks monthly, quarterly, or annually.
- Visual checks of battery cells.(leaks, cracks, overheating damage, corrosion)
- Measure and record individual battery cell voltages and electrolyte level. Add water if able and necessary.
- Verify battery charger electrical connections, measure output voltage and current, check for fault indications.
- Verify structural integrity of the battery rack and grounding equipment.
- Documentation of service performed with recommendations for any areas requiring additional service.

**BOARD OF TRUSTEES
VILLAGE OF RANTOUL**

AGENDA ITEM

ITEM: Authorize and Approve the Agreement with G. A. Rich & Sons Inc. for the recommended replacement of the underdrains of filter two and filter four at the West Water Treatment Plant (WTP) in the amount of \$246,850.00	DEPARTMENT: Public Works
DATE: March 1, 2022	AMOUNT: \$246,850.00
ATTACHMENTS: 1. WTP - GA Rich & Sons Inc	ADMINISTRATIVE NOTES:

SUMMARY HIGHLIGHTS:

This Agenda Item provides for a service agreement with G. A. Rich & Sons Inc. for the recommended replacement of the underdrains of filter two and filter four at the West Water Treatment Plant (WTP). The West Plant has six sand filters to remove solids before sending the treated water to the public. The underdrains are the floor of the filters under the sand media, and they are clogged and may be broken. Due to their poor performance this past year, staff have observed that the backwash flow is down by 800 gallons per minute. This reflects that the media is not being cleaned to the proper specifications, which increases the buildup of solids losing the capacity of flow through the filter.

The filters were initially constructed in 1973, and this style of underdrains are no longer available. February 15, 2022, the Village opened sealed bids for the West Water Treatment Plant Filter Upgrades project. As the attached Bid Tabulation shows, three bids were received. G.A. Rich & Sons Inc. of Deer Creek, Illinois, submitted the low bid. The G.A. Rich & Sons Inc. bid value was \$216,850.00, approximately 28% below the construction cost estimate from Donohue & Associates Inc. of \$300,000.00. Therefore, Donohue & Associates Inc. recommends that the Village award the West Water Treatment Plant Filter Upgrades Project to G.A. Rich & Sons Inc.

A contingency fund of \$30,000.00 is requested. For this service, the project was included in the FY22 & FY23 operating budget.

RECOMMENDED ACTION: Approve the service agreement with G.A Rich & Sons Inc. for the recommended replacement of the underdrains of filter two and filter four at the West Water Treatment Plant (WTP) in the amount of \$216,850.00, and establish a contingency fund of \$30,000.00.	
DEPARTMENT HEAD APPROVAL Jacob D. McCoy, P.E.	VILLAGE ADMINISTRATOR Scott Eisenhauer



Donohue & Associates, Inc.
1605 South State Street, Suite 1C | Champaign, IL 61820
217.352.9261 | donohue-associates.com

February 15, 2022

Village of Rantoul
333 S. Tanner Street
Rantoul, IL 61866

Attn: Charles Smith
Mayor

Re: Village of Rantoul
West Water Treatment Plant – Filter Upgrades
Bid Award Recommendation

Dear Honorable Charles Smith, Mayor of Rantoul:

On February 15, 2022, the Village of Rantoul opened sealed bids for the West Water Treatment Plant Filter Upgrades project. As the attached Bid Tabulation shows, three bids were received. G.A. Rich & Sons Inc. of Deer Creek, Illinois submitted the apparent low bid. G.A. Rich & Sons' bid value was \$216,850.

Donohue estimated that construction costs would be approximately \$300,000. G.A. Rich & Sons' bid value is approximately 28% below the cost estimate. Therefore, Donohue recommends that the Village award the West Water Treatment Plant Filter Upgrades project to G.A. Rich & Sons.

Enclosed please find the Notice of Award for the project and the Bid Tabulation. If the Village Board approves the award of this contract during its next board meeting, please sign three copies and mail all three copies of the Notice of Award back to me. Eventually, I will re-send it back to you with all the signed contract documents in a bound specification booklet ("executed contract"). Please call me at 217-903-4437 if you have any questions about this.

Sincerely,

DONOHUE & ASSOCIATES, INC.

A handwritten signature in blue ink that reads 'Terry K. Boyer'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Terry Boyer, P.E.

BID TABULATION

Owner: **Village of Rantoul, Illinois**
Project: **West Water Treatment Plant – Filter Upgrades**
Project No.: **14007**
Bid Date & Time: **10AM – February 15, 2021**

Contractor	Lump Sum Bid Price	Certified Check, Bank Check, or Bid Bond 5%	Acknowledge Addenda #1?
Schomburg Construction, Inc.	\$275,349.32	Yes	Yes
G.A. Rich & Sons, Inc.	\$216,850.00	Yes	Yes
A & R Services	No Bid		
Feutz Contractors	No Bid		
All Service Contracting	No Bid		
United Mechanical Group	\$274,100.00	Yes	Yes

NOTICE OF AWARD

DATED: _____

TO: G.A. Rich & Sons Inc.
204 S. Perry Ave.
Deer Creek, IL 61733

CONTRACT:

VILLAGE OF RANTOUL
WEST WATER TREATMENT PLANT FILTER UPGRADES
Rantoul, Illinois

You are notified that Owner has accepted your Bid dated **February 15, 2022** for the above Contract, and that you are the Successful Bidder and are awarded a Contract for:

The Work of this Contract is generally described as upgrading two of the west sand filters at the Rantoul Water Treatment Plant. This includes replacement of the underdrain and media retainers, replacement of the media with sand and anthracite, replacement of the surface wash system agitators and piping, and the installation of a shut off valve for the surface agitator wash water.

The Contract Price of your Contract is Two Hundred Sixteen Thousand Eight Hundred Fifty + 00/100 Dollars (\$216,850.00).

Three copies of the Agreement accompany this Notice of Award and one copy of the Contract Documents accompanies this Notice of Award, or has been transmitted or made available to Bidder electronically.. Additional sets of Contract Documents and Drawings will be delivered separately at a later date.

You must comply with the following conditions precedent within 15 days of the date of this Notice of Award, that is by _____.

1. Deliver to the Owner three fully executed counterparts of the Agreement, signed by Bidder (as Contractor).
2. Deliver with the signed Agreement the Contract security (Bonds) and insurance documentation, as specified in the Instructions to Bidders (Article 20) and General Conditions (Article 6).

Failure to comply with these conditions within the time specified will entitle Owner to consider your Bid in default, to annul this Notice of Award, and to declare your Bid security forfeited.

Within 10 days after you comply with the above conditions, Owner will return to you one fully executed counterpart of Agreement.

Village of Rantoul, Illinois
(OWNER)

(AUTHORIZED SIGNATURE)

Mayor
(TITLE)

Copy: Engineer

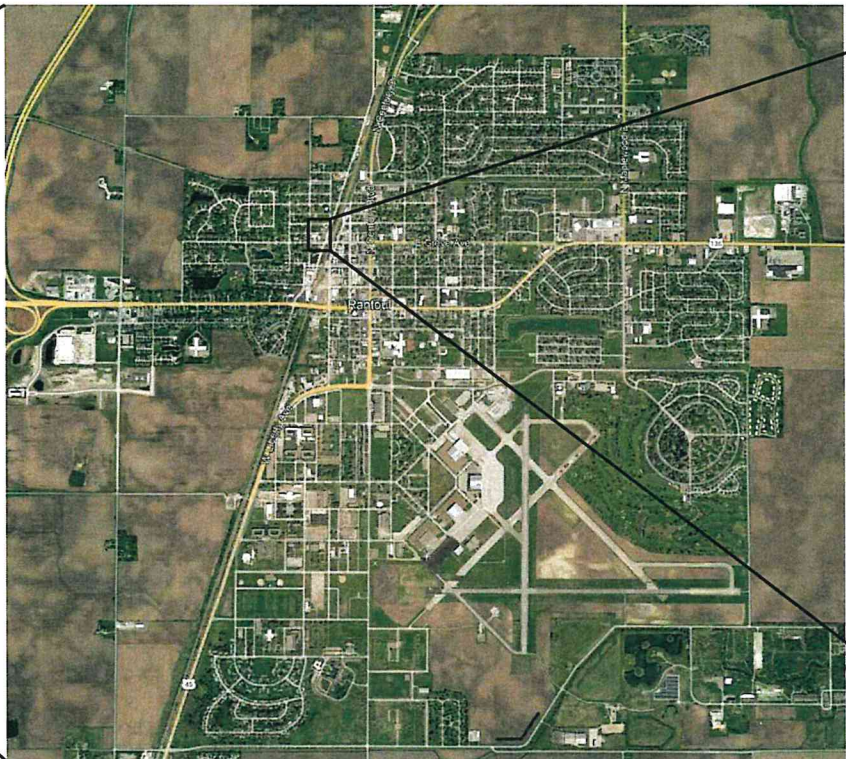
VILLAGE OF RANTOUL
WEST WATER TREATMENT PLANT
FILTER UPGRADES
BID NO. VRNTL-22-B-01
RANTOUL, ILLINOIS
JANUARY 2022

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DRAWING DESCRIPTION
001 - GENERAL		
1	COVER	COVER SHEET / DRAWING INDEX
2	001-G-2	GENERAL LEGENDS/SYMBOLS AND ABBREVIATIONS
3	001-G-3	CIVIL LEGENDS/SYMBOLS AND ABBREVIATIONS
4	001-G-4	PLUMBING LEGEND, HVAC LEGEND, AND ELECTRICAL LEGEND
5	001-G-5	INSTRUMENTATION AND CONTROL STANDARD LEGEND
6	001-G-6	INSTRUMENTATION AND CONTROL STANDARD SYMBOLOLOGY
002 - SITE DEVELOPMENT		
7	002-CK-1	SITE LOCATION MAP
100 - WEST FILTERS		
8	100-R-1	REMOVAL PLAN
9	100-R-2	REMOVAL SECTIONS
10	100-M-1	PLAN
11	100-M-2	SECTION AND DETAIL
12	100-M-3	SECTION AND DETAILS
999 - STANDARD DETAILS		
13	999-M-1	PROCESS MECHANICAL STANDARD DETAILS



ILLINOIS



PROJECT LOCATION MAP



PROJECT SITE MAP

PREPARED FOR



PREPARED BY



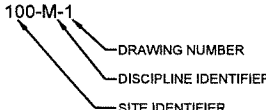
1605 SOUTH STATE STREET SUITE 1C
CHAMPAIGN, ILLINOIS 61820-7240
217-352-9990

GENERAL LEGEND

DISCIPLINE IDENTIFIER

<u>DISCIPLINE</u>	<u>DISCIPLINE IDENTIFIER</u>
GENERAL	G
CIVIL KEY	CK
CIVIL NOTES	CN
CIVIL REMOVAL	CR
CIVIL FACILITIES	CF
CIVIL GRADING	CG
CIVIL EROSION CONTROL	CE
CIVIL PIPING	CP
REMOVALS	R
ARCHITECTURAL	A
STRUCTURAL FOUNDATION	SF
STRUCTURAL	S
PROCESS-MECHANICAL	M
PLUMBING	P
HVAC	H
ELECTRICAL	E
ELECTRICAL LIGHTING	L
INSTRUMENTATION AND CONTROL	N

DRAWING NUMBER DESIGNATION

**PLAN NOTE DESIGNATION**

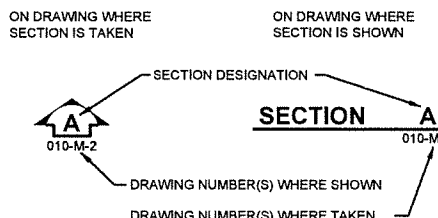
STANDARD DETAIL DESIGNATION



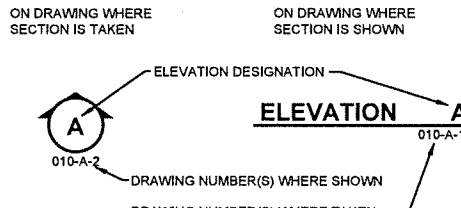
NOTE: STANDARD DETAILS ARE LOCATED ON DRAWINGS THAT HAVE BEEN ASSIGNED A SITE IDENTIFIER OF 999 FOLLOWED BY A DISCIPLINE IDENTIFIER. THESE DRAWINGS ARE PLACED LAST IN THE DRAWING SET.

EXAMPLE: 999-M.

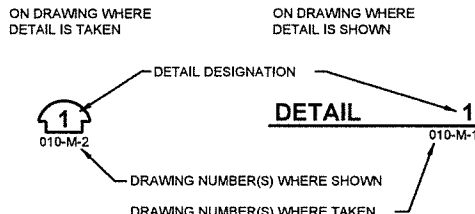
SECTION DESIGNATION



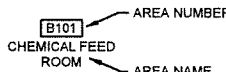
CASEWORK ELEVATION DESIGNATION



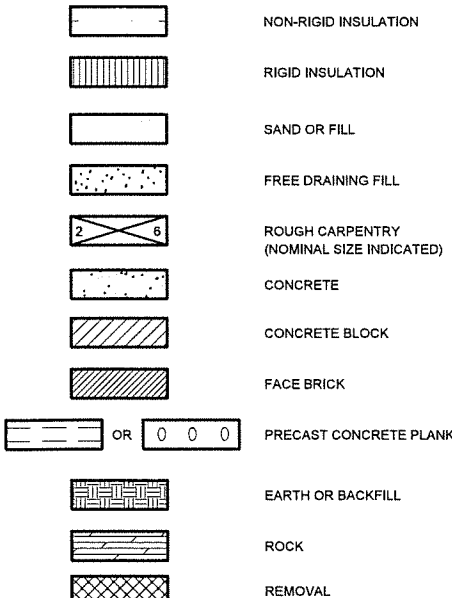
DETAIL DESIGNATION



AREA DESIGNATION



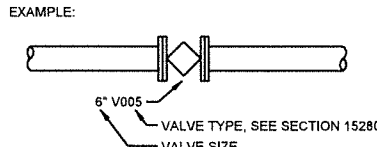
SYMBOLS



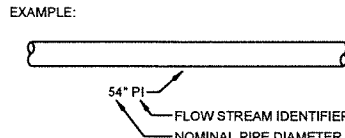
INSTRUMENT IDENTIFICATION

SAME AS SHOWN ON P&ID LEGEND.
EXCEPTION: COMPONENT DESIGNATORS NOT USED
ON PROCESS MECHANICAL DRAWINGS

VALVE IDENTIFICATION



PIPE IDENTIFICATION



ABBREVIATIONS

ACT	ACOUSTICAL TILE	F/	FACE OF	N	NEW	T	TOP
AD	ACCESS DOOR	FCA	FLANGED COUPLING ADAPTOR	NIC	NOT IN CONTRACT	T	TREAD
ADDL	ADDITIONAL	FD	FLOOR DRAIN	NO. or #	NUMBER	T/	TOP OF
AFF	ABOVE FINISHED FLOOR	FE	FIRE EXTINGUISHER	NOM	NOMINAL	T/S	TOP OF STEEL
AL	ALUMINUM	FEC	FIRE EXTINGUISHER CABINET	NR	NON-RATED	T&B	TOP AND BOTTOM
ALT	ALTERNATE	FF	FINISH FLOOR	NTS	NOT TO SCALE	T & G	TONGUE & GROOVE
APPROX	APPROXIMATE	FFE	FINISH FLOOR ELEVATION			TDC	TRAFFIC DECK COVERING
ARCH	ARCHITECTURAL	FH	FULL HEIGHT	OC	ON CENTER	TEMP	TEMPERED
AVG	AVERAGE	FHC	FIRE HOSE CABINET	OD	OUTSIDE DIAMETER	THK	THICK
		FIN	FINISH	OFI	OWNER FURNISHED ITEM	TOC	TOP OF CONCRETE or CURB
B	BOTTOM	FL or FLR	FLOOR	OFOI	OWNER FURNISHED	TOP	TOP OF PARAPET
B/	BOTTOM OF	FLG	FLANGE		OWNER INSTALLED	TOS	TOP OF STEEL
BF	BLIND FLANGE	FO	FINISHED OPENING	OPNG or OPNG	OPENING	TOW	TOP OF WALL
BFP	BACKFLOW PREVENTER	FOC	FACE OF CONCRETE	OPPO	OPPOSITE	TYP	TYPICAL
BLDG	BUILDING	FOS	FACE OF STUD	P&D	PROCESS AND		
BLK	BLOCK	FOUND	FOUNDATION		INSTRUMENTATION DIAGRAM	UNO	UNLESS NOTED OTHERWISE
BLKG	BLOCKING	FOW	FACE OF WALL	P. LAM.	PLASTIC LAMINATE		
BM	BEAM	FRP	FIBER REINFORCED PLASTIC	PC	PORTLAND CEMENT	VB	VINYL BASE
BOB	BOTTOM OF BEAM	FS	FLOOR SINK	PCP	PRE-STRESSED CONCRETE	VCT	VINYL COMPOSITION TILE
BOT	BOTTOM	FS	FULL SIZE	PIPE		VER	VERIFY
BRD	BOARD	FSD	FULL SIZE DETAIL	PJF	PREFORMED JOINT FILLER	VERT	VERTICAL
		FT	FEET	PL	PLATE	VIF	VERIFY IN FIELD
CL	CENTERLINE	FTG	FOOTING	PLAS	PLASTIC		
CEM	CEMENT	FV	FIELD VERIFY	PLYWD	PLYWOOD	W	WIDE
CH	CEILING HEIGHT			PR	PAIR	W/	WITH
CJ or CJT	CONTROL JOINT	GA	GAUGE	PREP	PREPARATION	WC	WATER CLOSET
CLG or CEIL	CEILING	GALV	GALVANIZED	PROJ	PROJECTION	WD	WOOD
CLO	CLOSET	G.B.	GLAZED CONCRETE	PT	PAINT	WL	WATER LEVEL
CLR	CLEAR	GCMU	MASONRY UNIT	PVC	POLYVINYL CHLORIDE	WO	WITHOUT
CMU	CONCRETE MASONRY UNIT		GLASS	QT	QUARRY TILE	WP	WATERPROOFING
CO	CLEAN CUT	GL	GRADE			WS	WATERSTOP
COL	COLUMN	GR	GYP BD	R or RAD	RISER	WWF	WELDED WIRE FABRIC
COMPO	COMPOSITION	H	HIGH	RC	ROOF CONDUCTOR	YR	YEAR
CONC	CONCRETE	HB	HOSE BIB	RCP	REINFORCED CONCRETE PIPE		
CONF	CONFERENCE	H/C	HANDICAPPED	RCP	REFLECTED CEILING PLAN		
CONN	CONNECTION	HDWD	HARDWOOD	RD	ROOF DRAIN		
CONST	CONSTRUCTION	HDWR	HARDWARE	REC	RECESSED		
CONT	CONTINUOUS	HM	HOLLOW METAL	RED	REDUCER		
CONTR	CONTRACT/CONTRACTOR	HORIZ	HORIZONTAL	REDWD	REDWOOD		
CONTR JT	CONTRACTION JOINT	HP	HIGH POINT	REF	REFERENCE		
CORR	CORRIDOR	HT	HEIGHT	REFL	REFLECTED		
C.T.	CERAMIC TILE	HWL	HIGH WATER LEVEL	REINF	REINFORCE/REINFORCING		
CPVC	CHLORINATED POLYVINYL	ID	INSIDE DIAMETER	REQ'D	REQUIRED		
CSK	CHLORIDE	INSUL	INSULATION	RES	RESILIENT		
CTR	COUNTERSINK	INT	INTERIOR	REV	REVISION/REVISED		
	CENTER	INV	INVERT	RM	ROOM		
				RO	ROUGH OPENING		
DBL	DOUBLE	JAN	JANITOR	SCHED	SCHEDULE		
DEG	DEGREE	KITCH	KITCHEN	SD	SUMP DISCHARGE		
DEG	DEGREES (ANGULAR)	LAV	LAVATORY	SECT	SECTION		
DET	DETAIL	LEV	LEVEL	SHT	SHEET		
DIA	DIAMETER	LIG	LAY-IN-GRID CEILING	SIM	SIMILAR		
DIAG	DIAGONAL	LLH	LONG LEG HORIZONTAL	SPA	SPACE OR SPACING		
DIM	DIMENSION	LLV	LONG LEG VERTICAL	SPECS	SPECIFICATIONS		
DIP	DUCTILE IRON PIPE	LP	LOW POINT	SQ	SQUARE		
DIR	DIRECTION	LR	LONG RADIUS	SR	SHORT RADIUS		
DN	DOWN	LTG	LIGHTING	SS or SST	STAINLESS STEEL		
DWG	DRAWING	LTWT	LIGHT WEIGHT	STD	STANDARD		
		LWL	LOW WATER LEVEL	STL	STEEL		
EA	EACH	MAINT	MAINTENANCE	STRUCT	STRUCTURAL		
ECC	ECCENTRIC			SUSP	SUSPENDED		
EF	EACH FACE			SV	STAIN AND VARNISH		
EJ	EXPANSION JOINT	MAT'L	MATERIAL				
EL	ELEVATION	MAX	MAXIMUM				
ELEC	ELECTRICAL	MB	MACHINE BOLT				
ELEV or EL	ELEVATION	MECH	MECHANICAL				
ELL	ELBOW	MET	METAL				
ELEV	ELEVATOR	MEZZ	MEZZANINE				
EQ	EQUAL	MFR	MANUFACTURER				
EQUIP	EQUIPMENT	MH	MANHOLE				
EW	EACH WAY	MIN	MINIMUM				
EWC	ELECTRICAL WATER COOLER	MISC	MISCELLANEOUS				
EXIST or (X)	EXISTING	MJ	MECHANICAL JOINT				

FLOW STREAM IDENTIFIERS

FI FILTER INFLUENT

NOTE:

1. THIS IS STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS LEGEND IS NEEDED IN THESE CONTRACT DRAWINGS.
2. WORK IN THIS CONTRACT SHOWN FULL-TONE UNLESS OTHERWISE NOTED.

**VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL**



Sheet No. _____

Drawing No.

001-G-2

LEGEND

EXISTING	PROPOSED	
		BENCHMARK
		CATCH BASIN
		CULVERT
		CULVERT OVER 24" (SHOWN ACTUAL SIZE)
		GAS VALVE
		GUY WIRE
		HAY BALES
		HEADWALL
		HYDRANT
		INLET
		IRON PIPE
		MANHOLE
		MARSH
		METER
		UTILITY POLE
		UTILITY POLE WITH LIGHT
		SECTION CORNER
		SIGN
		SPOT ELEVATION
		SOIL BORING
		STREET LIGHT
		SURVEY CONTROL POINT
		TELEPHONE PEDESTAL
		TREE CONIFEROUS, DECIDUOUS
		TREE REMOVAL
		TREE/SHRUB LINE
		WATER VALVE

LINE TYPE IDENTIFICATION

EXISTING	PROPOSED	
		CABLE TV CENTERLINE OF ROAD
		CONTOUR DITCH/SWALE
		EASEMENT FENCE
		ELECTRIC
		ELECTRICAL DUCT
		FIBER OPTIC
		FORCEMAIN
		GAS
		GUARDRAIL
		OVERHEAD ELECTRIC
		PIPE, ABANDON PIPE, PREVIOUSLY ABANDONED
		PIPE OVER 24" (SHOWN ACTUAL SIZE)
		PROPERTY LINE
		R.O.W.
		RAILROAD
		SANITARY SEWER
		SILT FENCE
		STORM SEWER
		TELEPHONE
		WATER
		WATERS EDGE
		WETLAND

GENERAL NOTES

1. DRAWINGS WERE DEVELOPED USING TOPOGRAPHIC SURVEY INFORMATION PERFORMED IN ILLINOIS STATE PLANE EAST NAD 83 AND NAVD 88 DATUMS AND HISTORIC AS-BUILT CONSTRUCTION DRAWINGS TO IDENTIFY APPROXIMATE UNDERGROUND UTILITY LOCATIONS.
2. DIMENSIONS OR COORDINATES TAKE PRECEDENCE OVER SCALE. CONTRACTORS TO VERIFY ALL DIMENSIONS AND COORDINATES IN THE FIELD FOR PROPER FIT AND ALIGNMENT.
3. THE CONTRACTOR SHALL CONTACT JULIE AT 811 A MINIMUM OF 72 HOURS PRIOR TO PERFORMING ANY EARTH MOVING OR EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY OTHER UTILITIES WHICH MAY BE PRESENT WHICH ARE NOT PART OF THE ONE CALL SYSTEM. NOTIFY PLANT STAFF ONE WEEK IN ADVANCE OF PLANT UTILITY LOCATION NEEDS TO ALLOW ADEQUATE RESPONSE TIME FOR PLANT STAFF.
4. EXISTING BURIED UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH THE AVAILABLE RECORDS AND FIELD INFORMATION AVAILABLE TO THE ENGINEER. OTHER UTILITIES MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE OWNERS OF THE EXISTING UTILITIES THE LOCATION OF THEIR BURIED FACILITIES. ANY UTILITIES DAMAGED OR DESTROYED BY THE CONTRACTOR'S OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT, SHALL BE REPLACED OR REPAIRED TO THE UTILITY'S SATISFACTION AT NO COST TO THE OWNER.
5. IF UTILITY FACILITIES OTHER THAN THOSE SHOWN ARE LOCATED, OR IF UTILITIES ARE LOCATED WHICH ARE NOT IN ACCORDANCE WITH THE LOCATION SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE IF PLAN REVISIONS ARE NEEDED. CONTRACTOR IS REQUIRED TO FIELD LOCATE ALL CROSSING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION ACTIVITIES TO ALLOW ENGINEER TO REVISE LOCATIONS OF NEW FACILITIES TO AVOID CONFLICTS WITHOUT ADDITIONAL COST TO OWNER.
6. ACCESS CONSTRAINTS TO BE PLACED ON THE CONTRACTOR FOR THE PROJECT ARE SPECIFIED IN SECTION 01110 OF THE SPECIFICATIONS.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SITE FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL PLAN HIS WORK SEQUENCE AND ACTIVITIES TO ENSURE THAT HIS WORK DOES NOT INTERFERE WITH PUBLIC NEEDS OR PUBLIC FACILITIES OPERATIONS, DELIVERIES, PICKUPS OR OTHER ACCESS NEEDS.
8. THE CONTRACTOR SHALL COORDINATE THE ACTIVITIES OF HIS PERSONNEL, SUBCONTRACTORS, AND UTILITIES PERFORMING WORK ON THIS PROJECT. THE CONTRACTOR SHALL ALSO COORDINATE WITH DISTRICT CREWS AND OTHER CONTRACTORS WORKING IN OR NEAR THE PROJECT AREA.
9. THE CONTRACTOR SHALL MAINTAIN ON FILE WITH THE OWNER AND ENGINEER A CURRENT LIST OF EMERGENCY TELEPHONE NUMBERS FOR THE CONTRACTORS SUPERVISORY PERSONNEL ASSIGNED TO THIS PROJECT. NO LESS THAN 2 NAMES WITH 24 HOUR PHONE NUMBERS SHALL BE INCLUDED.
10. ELEVATIONS CALLED OUT ON THE DRAWINGS ARE TYPICALLY AT THE "INVERT" OR BOTTOM OF PIPES AND STRUCTURES, ALONG THE FLOW LINE IN GUTTERS AND SWALES, AND AT THE "RIM" OR TOP (FINISHED GRADE) OF THE FRAME AND COVERS. OTHER ELEVATIONS ARE SPECIFICALLY NOTED.
11. UNLESS NOTED OTHERWISE RESTORATION OF EXISTING SANITARY SEWERS AND SERVICE LINES, WATER MAINS AND SERVICE LINES, STORM SEWERS, OTHER UTILITIES, SIDEWALKS, CURBS, DRIVEWAYS, STREETS OR OTHER IMPROVEMENTS NOT SHOWN AS BEING REMOVED, REPLACED OR MODIFIED BY THE PROJECT IS REQUIRED ONLY TO THE EXTENT THEY ARE DAMAGED OR DISTURBED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL RESTORE ALL DAMAGED AND DISTURBED IMPROVEMENTS TO THE IMPROVEMENT OWNERS AND ENGINEERS SATISFACTION.
12. WHERE NEW WORK ABUTS EXISTING CURBS, SIDEWALK, DRIVES, OR OTHER PAVEMENTS WHICH ARE TO REMAIN IN PLACE, THE CONTRACTOR SHALL PROVIDE NEAT SAWCUTS, FULL DEPTH AT THE LIMIT OF CONSTRUCTION.
13. CONTRACTOR SHALL PROVIDE SUPPORT AND SHALL MAINTAIN SERVICE TO ALL ABOVE AND BELOW GRADE UTILITIES INCLUDING POLES, CABLES, WIRES, WATER, GAS, STORM , AND SANITARY FACILITIES, OR WITH THE WRITTEN CONCURRENCE OF THE UTILITY OWNER, MAY REMOVE, STORE, REINSTALL AND REPLACE AS NECESSARY.
14. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING CONSTRUCTION OF THE PROJECT.
15. THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS (STEEL REBARS, PIPES, CAPPED PINS, ETC.) WHICH WERE FOUND OR LOCATED ON THE PROJECT SITE WHETHER SHOWN ON THE PLANS OR ENCOUNTERED DURING CONSTRUCTION FROM BEING DAMAGED, DESTROYED OR MOVED. IF PROPERTY PINS ARE DAMAGED, DESTROYED OR MOVED, THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A REGISTERED ILLINOIS LAND SURVEYOR TO REPLACE THEM AT NO COST TO THE OWNER.
16. AS PART OF THE CONTRACTORS RESPONSIBILITIES A DETAILED SET OF RECORD DRAWINGS SHALL BE KEPT TO RECORD CHANGES OR DEVIATIONS FROM THE PLANS AND TO SHOW EXISTING UNDERGROUND UTILITIES OR OTHER FEATURES ENCOUNTERED DURING CONSTRUCTION.

NOTE:

1. PROCESS FLOW STREAM IDENTIFIERS SAME AS SHOWN ON THE PROCESS MECHANICAL LEGEND
2. THIS IS STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS LEGEND IS NEEDED IN THESE CONTRACT DRAWINGS.

ABBREVIATIONS

AGG	AGGREGATE	NG	NATURAL GAS
B/C	BACK OF CURB	OH	OVERHEAD UTILITY
BIT	BITUMINOUS/ASPHALT	PC	POINT OF CURVATURE
CIP	CAST IRON PIPE	PE	POLYETHYLENE PIPE
CO	CLEANOUT	PI	POINT OF INTERSECTION
CONC	CONCRETE	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	PT	POINT OF TANGENCY
CSP	CONCRETE SEWER PIPE	PVC	POLYVINYL CHLORIDE PIPE
		PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER		
DIP	DUCTILE IRON PIPE	R	RADIUS
DW	DEWATERING PIPE	RCP	REINFORCED CONCRETE PIPE
		RIM	TOP OF CASTING ELEVATION
EXTG	EXISTING	ROW	RIGHT OF WAY
EOP	EDGE OF PAVEMENT	RT	RIGHT
F&C	FRAME AND COVER	SAN	SANITARY SEWER
		STM	STORM SEWER
F/C	FACE OF CURB	SD	SUMP DISCHARGE
F-F	FACE TO FACE		
FIG	FINISHED GRADE	T/C	TOP OF CURB
FES	FLARED END SECTION	T/W	TOP OF WALL
INV	INVERT	UD	UNDERDRAIN
L	LENGTH OF CURVE		
LF	LINEAR FT	VC	VERTICAL CURVE
LT	LEFT		

SYMBOLS

	EXISTING BUILDING OUTLINE
	EXISTING CONCRETE SIDEWALK OR PAVEMENT
	EXISTING ASPHALTIC PAVEMENT
	REMOVE EXISTING CONCRETE SIDEWALK OR PAVEMENT
	REMOVE EXISTING ASPHALTIC PAVEMENT & BASE
	REMOVE EXISTING AGGREGATE SURFACE
	STRUCTURE DEMOLITION
	STAGING AREA
	PROPOSED CONCRETE SIDEWALK OR PAVEMENT
	PROPOSED BITUMINOUS PAVEMENT
	PROPOSED AGGREGATE SURFACE

VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL

DONOHUE

Sheet No. 3

Drawing No.

001-G-3

PLUMBING / HVAC ABBREVIATIONS AND SYMBOLS

PLUMBING LEGEND

	HW - HOT WATER PIPE (ON PLUMBING DRAWINGS)
	HWRE - HOT WATER RECIRCULATING PIPE (ON PLUMBING DRAWINGS)
	HWS - HEATING WATER SUPPLY PIPE (ON HVAC DRAWINGS)
	HWR - HEATING WATER RETURN PIPE (ON HVAC DRAWINGS)
	PIPE (REFER TO FLOW STREAM IDENTIFIERS)
	BELOW SLAB OR BURIED PIPE (REFER TO FLOW STREAM IDENTIFIERS)
	VENT
	ELBOW FITTING (TURNED DOWN)
	ELBOW FITTING (TURNED UP)
	TEE OUTLET UP
	TEE OUTLET DOWN
	PIPE ANCHOR
	PIPE HANGER
	PIPE GUIDE
	CAP
	EXPANSION JOINT
	UNION
	FLANGE
	VENT THRU ROOF
	FLOOR DRAIN
	CLEANOUT
	FLOOR CLEANOUT
	WALL CLEANOUT
	HUB DRAIN
	ROOF DRAIN
	OVERFLOW DRAIN
	TRENCH DRAIN
	YARD HYDRANT
	WALL HYDRANT
	HOSE BIBB
	REDUCER (CONCENTRIC)
	REDUCER (ECCENTRIC)
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	ANGLE STOP
	GLOBE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	RELIEF OR SAFETY VALVE
	CONTROL VALVE (2-WAY)
	CONTROL VALVE (3-WAY)
	BALANCING VALVE
	MANUAL AIR VENT
	STRAINER
	BACKFLOW PREVENTER
	WATER HAMMER ARRESTOR

HVAC LEGEND

	ACCESS DOOR
	DUCT (FIRST FIG. IS SIDE SHOWN)
	DUCT SECTION (RETURN)
	DUCT SECTION (SUPPLY)
	DUCT LINING
	RETURN, EXHAUST OR SUPPLY GRILLE W/ MVD
	ELBOW DOWN
	ELBOW W/ TURNING VANES
	MANUAL VOLUME DAMPER
	FLEXIBLE CONNECTOR
	SMOKE DETECTOR
	THERMOSTAT / TEMPERATURE SENSOR
	HUMIDISTAT
	PRESSURE SENSOR
	FIRE DAMPER
	MOTOR OPERATED DAMPER
	GRAVITY BACKDRAFT DAMPER
	PRESSURE GAUGE
	THERMOMETER

FLOWSTREAM IDENTIFIERS

AI	INSTRUMENT AIR	HWRE	HOT WATER RECIRCULATION
AHP	AIR (HIGH PRESSURE)	HWS	HEATING WATER SUPPLY
AV	ACID VENT	RHG	REFRIGERANT (HOT GAS)
AW	ACID WASTE	RL	REFRIGERANT (LIQUID)
CND	CONDENSATE	RS	REFRIGERANT (SUCTION)
CGR	COOLING GLYCOL RETURN	SAN	SANITARY SEWER
CGS	COOLING GLYCOL SUPPLY	SBS	SODIUM BISULFITE
CR	CONDENSATE RETURN	SHC	SODIUM HYPOCHLORITE
CWR	CHILLED WATER RETURN	STM	STORM SEWER
CWS	CHILLED WATER SUPPLY	TE	TERTIARY EFFLUENT
F	FIRE SPRINKLER	TW	TEMPERED WATER
FE	FINAL EFFLUENT	TWRE	TEMPERED WATER RECIRC
NG	GAS (NATURAL)	V	VENT
HGR	HEATING GLYCOL RETURN	W1	POTABLE CITY WATER
HGS	HEATING GLYCOL SUPPLY	W2	NON-POTABLE CITY WATER
HPHW	HIGH PRESSURE HOT WATER	W3	PLANT EFFLUENT WATER
HPW	HIGH PRESSURE WATER		(NOT-POTABLE)
HW	HOT WATER	"A"	WATER HAMMER SIZE, LETTERS
HWR	HEATING WATER RETURN	A-D	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MVD	MANUAL VOLUME DAMPER
BDD	BACKDRAFT DAMPER	OA	OUTSIDE AIR
BOD	BOTTOM OF DUCT	PSIG	POUND PER SQUARE INCH
CL	CENTER LINE ELEVATION		(GAUGE)
DFU	DRAINAGE FIXTURE UNIT	THRU	THROUGH
EL	ELEVATION	TOD	TOP OF DUCT
EXP	EXPLOSION PROOF	VTR	VENT THROUGH ROOF
H-O-A	HAND-OFF-AUTO SWITCH	WSFU	WATER SUPPLY FIXTURE UNIT
HP	HIGH POINT	VIF	VERIFY IN FIELD
LP	LOW POINT		

EQUIPMENT TAG IDENTIFIERS

ACU	AIR CONDITIONING UNIT	IH	INTAKE HOOD
ACCU	AIR COOLED CONDENSING UNIT	LAV	LAVATORY
AHU	AIR HANDLING UNIT	MAU	MAKE-UP AIR UNIT
B	BOILER	MCD	MOTOR CONTROL DAMPER
BS	BRANCH SELECTOR	MS	MOP SINK
CO	CLEANOUT	OAL	OUTSIDE AIR LOUVER
CP	CIRCULATING PUMP	P	PUMP
CS	COUNTERTOP SINK	RAL	RELIEF AIR LOUVER
DEH	DEHUMIDIFIER	RD	ROOF DRAIN
EAL	EXHAUST AIR LOUVER	RG	RETURN GRILLE
EEW	EMERGENCY EYEWASH STATION	RH	RELIEF HOOD
EF	EXHAUST FAN	RHP	RADIANT HEATING PANEL
EG	EXHAUST GRILLE	RPZ	REDUCED ZONE PRESSURE
EH	ELECTRIC HEATER		BACKFLOW PREVENTER
EUH	ELECTRIC UNIT HEATER	RTU	ROOFTOP UNIT
EWV	ELECTRIC WATER COOLER	SD	SUPPLY DIFFUSER
EWB	ELECTRIC WATER HEATER	SF	SUPPLY FAN
EWS	EMERGENCY WASH STATION	SG	SUPPLY GRILLE
FRES	FREEZE RESISTANT EMERGENCY	SHR	SHOWER
	SHOWER	SP	SUMP PUMP
FREW	FREEZE RESISTANT EMERGENCY	SPCP	SUMP PUMP CONTROL PANEL
	FACE WASH	SS	SERVICE SINK
FD	FLOOR DRAIN	TCP	TEMPERATURE CONTROL PANEL
GDGP	GAS DETECTION CONTROL PANEL	TG	TRANSFER GRILLE
GUH	GAS UNIT HEATER	TMV	THERMOSTATIC MIXING VALVE
GWH	GAS WATER HEATER	UR	URINAL
HB	HOSE BIB	VAV	VARIABLE AIR VOLUME BOX
HD	HUB DRAIN	WCCU	WATER COOLED CONDENSING
HUW	HOT WATER UNIT HEATER	UNIT	
HWC	HOT WATER CONVECTOR	WC	WATER CLOSET
ICD	INSULATED MOTOR CONTROL	WH	WALL HYDRANT
	DAMPER		

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
C	CONTACTOR/CONDUIT/COIL
CB	CIRCUIT BREAKER
CKT, CCT	CIRCUIT
DISC	DISCONNECT
EP	EXPLOSION PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HF	HARMONIC FILTER
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LCP	LOCAL CONTROL PANEL
LP	LIGHTING PANEL
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MV	MEDIUM VOLTAGE MANHOLE
NEC	NATIONAL ELECTRICAL CODE (ANSI/NFPA-70)
NEU, N	NEUTRAL
NC	NORMALLY CLOSED
NF	NON FUSED
NGR	NEUTRAL GROUND RESISTOR
NO	NORMALLY OPEN
OL	OVERLOAD RELAY
PC	PHOTOCELL
PMG	PADMOUNT GEAR
PMT	PADMOUNT TRANSFORMER
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE
SW	SWITCH
SWBD	SWITCH BOARD
SWGR	SWITCHGEAR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ONE-LINE SYMBOLS

	MOLDED CASE CIRCUIT BREAKER (UPPER NUMERAL INDICATES FRAME SIZE) (LOWER NUMERAL INDICATES TRIP SETTING) (CL - INDICATES CURRENT LIMITING CIRCUIT BREAKER) (M - INDICATES MOTOR CIRCUIT PROTECTOR) MAGNETIC STARTER AND MOLDED CASE CIRCUIT BREAKER
	TRANSFORMER
	COMBINATION MAGNETIC STARTER WITH MOLDED CASE CIRCUIT BREAKER (FVNR - INDICATES FULL VOLTAGE NON-REVERSING) (FVR - INDICATES FULL VOLTAGE REVERSING) (SSRV - INDICATES SOLID STATE REDUCED VOLTAGE) (TSTW - INDICATES TWO SPEED TWO WINDING) (TSSW - INDICATES TWO SPEED SINGLE WINDING) (CONT - INDICATES CONTACTOR) (AUXILIARY CONTACTS - (2a TWO N.O.)(1b ONE N.C.) (NUMERAL INDICATES NEMA SIZE)
	GROUND
	MOTOR (NUMERAL INDICATES HORSEPOWER)
	GENERATOR
	DRAW-OUT CIRCUIT BREAKER (NUMERAL INDICATES DEVICE NUMBER)
	FUSED SWITCH (NUMERAL INDICATES FUSE SIZE)
	MEDIUM-VOLTAGE TERMINATION
	CURRENT TRANSFORMER AND PROTECTIVE DEVICE (NUMERAL INDICATES DEVICE NUMBER)

ELECTRICAL ABBREVIATIONS AND SYMBOLS

PLAN SYMBOLS

	LED OR FLUORESCENT FIXTURE - RECESSED (LETTER DENOTES TYPE)		MANUAL STARTER WITH PILOT LIGHT
	LED OR FLUORESCENT FIXTURE - SURFACE/SUSPENDED (LETTER DENOTES TYPE)		THREE PHASE MAGNETIC STARTER
	LED OR FLUORESCENT FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)		INFORMATION OUTLET
	LED OR HID FIXTURE - WALL MOUNTED (LETTER DENOTES TYPE)		THREE PHASE COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH
	LED OR HID FIXTURE - POLE MOUNTED FIXTURE (LETTER DENOTES TYPE)		SINGLE PHASE MAGNETIC STARTER
	LED OR HID FIXTURE - SURFACE/SUSPENDED (LETTER DENOTES TYPE)		NON-FUSED DISCONNECT SWITCH (NUMERAL INDICATES SWITCH RATING)
	EMERGENCY BATTERY LIGHT		FUSED DISCONNECT SWITCH - 3 POLE UNLESS OTHERWISE INDICATED (UPPER NUMERAL INDICATES SWITCH RATING) (LOWER NUMERAL INDICATES FUSE RATING)
	REMOTE HEAD FOR EMERGENCY BATTERY LIGHT		3-PHASE MANUAL MOTOR SWITCH
	EXIT LIGHT WITH INDICATING DIRECTIONAL ARROW		LIGHTING PANEL
	SWITCH (SINGLE POLE, 2-POLE, 3-WAY, 4-WAY)		TRANSFORMER
	MOMENTARY CONTACT SWITCH - CENTER OFF		POWER PANEL
	SWITCH / PILOT LIGHT		TERMINAL CABINET (ITC - INDICATES INSTRUMENTATION) (TTC - INDICATES TELEPHONE)
	DUPLEX GFCI RECEPTACLE - 120V		MOTOR
	EXPLOSIONPROOF SIMPLEX GROUNDED RECEPTACLE - 120V		JUNCTION BOX
	TELEPHONE OUTLET, WALL MOUNT WITH 3/4\"/>		HANDHOLE
	DATA INFORMATION OUTLET		MANHOLE
	RECESSED CEILING SPEAKER		SURVEILLANCE CAMERA
	VOLUME CONTROL		GROUND ROD
	WALL SPEAKER		CONDUIT STUB
	SMOKE DETECTOR		CONDUIT TURNING UP OR TO OBSERVER
	FIRE ALARM HORN		CONDUIT TURNING DOWN OR AWAY FROM OBSERVER
	FIRE ALARM HORN AND STROBE		FLEXIBLE CONDUIT CONNECTION
	FIRE ALARM STROBE		HOMERUN CIRCUIT OR CONDUCTORS
	FIRE ALARM PULL STATION		DIRECT BURIAL CABLE
	HEAT DETECTOR		UNDERGROUND ELECTRICAL DUCT, CONCRETE ENCASED.
	FLOW SWITCH		
	MOTION DETECTOR		
	CONNECTION TO EQUIPMENT		
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AND AMPERE RATING AS INDICATED		

PANELBOARDS

BUILDING NO.	010LP1-4
LIGHTING OR POWER PANEL AS INDICATED	
PANEL NO.	
CIRCUIT NO.	

DEVICE NUMBER	FUNCTION
27	UNDervOLTAGE RELAY
32	REVERSE POWER RELAY
46	PHASE-BALANCE CURRENT RELAY
47	PHASE-SEQUENCE VOLTAGE RELAY
50	INSTANTANEOUS OVERCURRENT
51	AC TIME OVERCURRENT RELAY
51N	GROUND OVERCURRENT
52	AC CIRCUIT BREAKER
59	OVERVOLTAGE RELAY
67	AC DIRECTIONAL OVERCURRENT
81	OVER/UNDER FREQUENCY RELAY
86	LOCKOUT RELAY
89	POTENTIAL TRANSFORMER

NOTE:

- THIS IS STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS LEGEND IS NEEDED IN THESE CONTRACT DRAWINGS.

MOTOR CONTROL CENTER

BUILDING NO.	010MCC-1
MCC NO.	

VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL

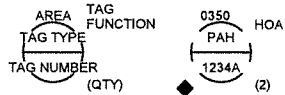
PLUMBING LEGEND / HVAC LEGEND /
ELECTRICAL LEGEND

DONOHUE

Sheet No. 4
Drawing No.

001-G-4

INSTRUMENT TAG IDENTIFICATION



COMPONENT DESIGNATOR

AREA	0350:	BUILDING OR PROCESS AREA NUMBER
TAG TYPE	P:	FIRST LETTER, SEE TABLE BELOW
	AH:	SUCCEEDING LETTERS, SEE TABLE BELOW
TAG NUMBER	12:	P&ID NUMBER
	3:	LOOP NUMBER
	4:	EQUIPMENT NUMBER
	A:	DEVICE LETTER IF MULTIPLE DEVICES

TAG FUNCTION HOA: TAG FUNCTION ABBREVIATION, SEE LISTING AT RIGHT

(QUANTITY) (2): TOTAL NUMBER OF DEVICES WHERE MORE THAN ONE DEVICE IS REQUIRED. DEVICE NUMBERS ARE SEQUENTIAL BEGINNING WITH THE TAG NUMBER SHOWN. IF QUANTITY IS NOT SHOWN THEN ONE DEVICE ONLY IS REQUIRED.

COMPONENT DESIGNATOR ♦ SEE LISTING AT RIGHT

MISCELLANEOUS ABBREVIATIONS

ACC	ACCUMULATE/ACCUMULATION	PCN	PROCESS CONTROL NETWORK
ALT	ALTERNATE	PLC	PROGRAMMABLE LOGIC CONTROLLER
CAM	CAMERA	PROT	PROTECTOR/PROTECTION
CN	CONTROLNET	PTR	PRINTER
CPU	CENTRAL PROCESSING UNIT	PWR	POWER
CTL	CONTROL		
DN	DEVICENET	RAD	RADIO
DO	DATA OUTLET	RIO	REMOTE I/O
DSC	DISCONNECT	SBOX	SPLICE BOX
		SEQ	SEQUENCE
ETM	ELAPSED TIME METER	SM	SINGLE MODE
		SW	SWITCH
FOC	FIBER OPTIC CABLE	TEMP	TEMPERATURE
FOPP	FIBER OPTIC PATCH PANEL		
FW	FIREWALL	UPS	UNINTERRUPTIBLE POWER SUPPLY
HMI	HUMAN MACHINE INTERFACE	WAP	WIRELESS ACCESS POINT
INIT	INITIATE		
INT	INTERVAL		
IP	INTERNET PROTOCOL		
JBX	JUNCTION BOX		
MOR	MOTOR OVERLOAD RELAY		
MPR	MOTOR PROTECTION RELAY		
MC	MEDIA CONVERTER		
MM	MULTIMODE		
MS	MOTOR STARTER		
NIC	NETWORK INTERFACE CARD		
OIU	OPERATOR INTERFACE UNIT		

MEANINGS OF INSTRUMENT IDENTIFICATION LETTERS

LETTER	FIRST LETTER (S)		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (*)		ALARM (W. LOGGING)	ANNUNCIATE	
B	BURNER, FLAME, COMBUSTION		USERS CHOICE (*)	USERS CHOICE (*)	USERS CHOICE (*)
C	USERS CHOICE (*)			CONTROL	
D	USERS CHOICE (*)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			FEEDBACK
G	USERS CHOICE (*)		GLASS, VIEWING DEVICE		
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE	TIME RATE OF CHANGE	KEYPAD (DATA ENTRY)	CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTOR, MOISTURE, HUMIDITY	MOMENTARY			MONITORING
N	USERS CHOICE (*)		USERS CHOICE (*)	USERS CHOICE (*)	USERS CHOICE (*)
O	USERS CHOICE (*)		ORIFICE		
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY OR HEAT DUTY	INTEGRATE			
R	RADIATION		RECORD, TREND, LOG		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	UNIVERSAL/MULTIVARIABLE (*)		MULTIFUNCTION (*)	MULTIFUNCTION (*)	MULTIFUNCTION (*)
V	VIBRATION, MECHANICAL ANAL.			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE, TORQUE		WELL		
X	UNCLASSIFIED (*)	X AXIS	UNCLASSIFIED (*)	UNCLASSIFIED (*)	UNCLASSIFIED (*)
Y	EVENT, STATE, OR PRESENCE	Y AXIS	RELAY, COMPUTE, CONVERT		
Z	POSITION, DIMENSION	Z AXIS		DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

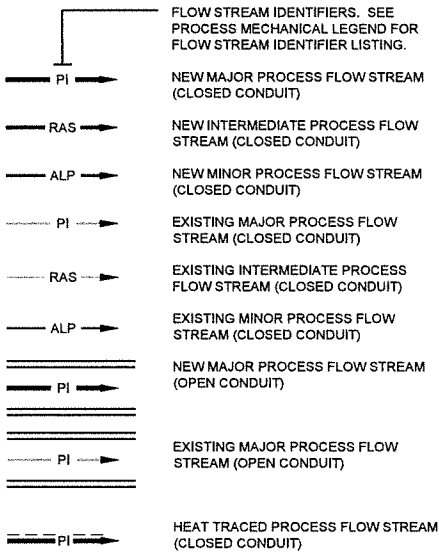
(*) WHEN USED, AN EXPLANATION IS SHOWN ADJACENT TO SYMBOL.

TAG FUNCTION ABBREVIATIONS

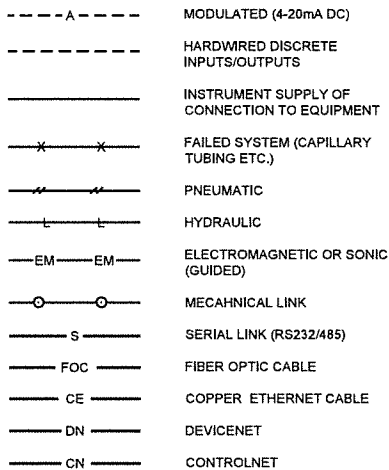
ALT	ALTERNATE
C	CLOSE/CLOSED
COMM	COMMUNICATIONS
CM	COMPUTER-MANUAL
DIFF	DIFFERENCE/DIFFERENTIAL
DN	DEVICENET
DO	DISSOLVED OXYGEN
ESTP	EMERGENCY STOP (ESTOP)
F	FAIL
F(X)	CHARACTERIZED/FUNCTION
FOR	FORWARD-STOP(OFF)-REVERSE (MAINTAINED CONTACT)
FSR	FORWARD-STOP-REVERSE (MOMENTARY CONTACT)
FWD	FORWARD
F/R	FORWARD/REVERSE (MOTOR STARTER COILS)
HOA	HAND-OFF-AUTOMATIC (MAINTAINED CONTACT)
HOR	HAND-OFF-REMOTE (MAINTAINED CONTACT)
II	CURRENT TO CURRENT
IP	CURRENT TO PNEUMATIC
LL	LEAD-LAG (MAINTAINED CONTACT)
LOE	LOSS OF ECHO (ULTRASONIC SENSOR FAILURE)
LOR	LOCAL-OFF-REMOTE (MAINTAINED CONTACT)
LOS	LOCKOUT STOP (LOCKABLE IN STOP POSITION)
L/R	LOCAL-REMOTE (MAINTAINED CONTACT)
MA	MANUAL-AUTOMATIC (MAINTAINED CONTACT)
MOA	MANUAL-OFF-AUTOMATIC (MAINTAINED CONTACT)
O	OPEN/OPENED
OA	OFF-AUTOMATIC
OCA	OPEN-CLOSE-AUTOMATIC (MAINTAINED CONTACT)
OC	OPEN-CLOSE
OSC	OPEN-STOP-CLOSE (SPRING RETURN TO CENTER)
OO	ON-OFF (MAINTAINED CONTACT)
OOA	ON-OFF-AUTO (MAINTAINED CONTACT)
OOR	ON-OFF-REMOTE (MAINTAINED CONTACT)
QTY	QUANTITY
R	RUN
REV	REVERSE
RST	RESET
SBL	SLUDGE BLANKET INTERFACE LEVEL
SP	SPEED POTENTIOMETER
SPD	SPEED
SQRT	SQUARE ROOT
SS	START-STOP (MOMENTARY CONTACT)
SSA	START-STOP-AUTOMATIC (MOMENTARY CONTACT)
SSL	START-STOP-LOCK (LOCKABLE IN STOP POSITION)
SUM	SUMMATION
VIB	VIBRATION
X	MULTIPLE/MULTIPLY

LINE IDENTIFICATION

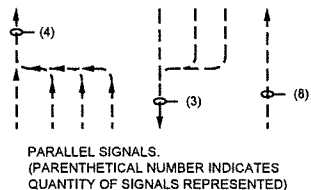
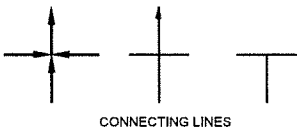
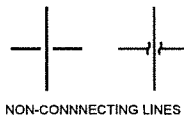
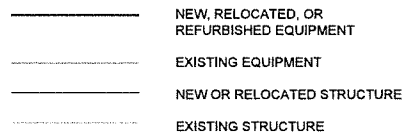
PROCESS FLOW



SIGNALS



STRUCTURES AND EQUIPMENT



PARALLEL SIGNALS.
(PARENTHETICAL NUMBER INDICATES QUANTITY OF SIGNALS REPRESENTED)

LOCAL CONTROL PANEL

TAG IDENTIFICATION

TAG NUMBER

V-W-XYZ ♦

V: SITE IDENTIFIER

W: EQUIPMENT

CS - CONTROL STATION

ITC - INSTRUMENT TERM. CABINET

LCP - LOCAL CONTROL PANEL

SPCP - SUMP PUMP CONTROL PANEL

VFD - VARIABLE FREQUENCY DRIVE

X: P&ID NUMBER

Y: LOOP NUMBER

Z: EQUIPMENT NUMBER

♦ COMPONENT DESIGNATOR

EQUIPMENT AND VALVE

TAG IDENTIFICATION

TAG NUMBER

V-W-XYZ * *

V: SITE IDENTIFIER

W: EQUIPMENT

E - EJECTOR

G - GATE

M - MECHANICAL EQUIPMENT

P - PUMP

T - TANK

ARV - AIR RELEASE VALVE

AVRV - AIR & VACUUM RELIEF VALVE

ATS - AUTOMATIC TRANSFER SWITCH

EPS - EMERGENCY POWER SYSTEM

LCV - LEVEL CONTROL VALVE

PCV - PRESSURE CONTROL VALVE

PSV - PRESSURE SAFETY (RELIEF) VALVE

TCV - TEMPERATURE CONTROL VALVE

X: P&ID NUMBER

Y: LOOP NUMBER

Z: EQUIPMENT NUMBER

* * : COMPONENT DESIGNATOR

COMPONENT DESIGNATORS

- ◆ PROVIDE COMPONENT IN ACCORDANCE WITH DIVISION 13.
 - ◆ FURNISHED AS PART OF A MANUFACTURER'S OR VENDOR'S PACKAGED SYSTEM UNDER DIVISION 11 AND DIVISION 15. TO BE INSTALLED IN ACCORDANCE WITH DIVISION 13.
 - ◆◆ EXISTING COMPONENT, TO BE RELOCATED IN ACCORDANCE WITH DIVISION 13.
 - ◆◆◆ OWNER FURNISHED COMPONENT, TO BE INSTALLED IN ACCORDANCE WITH DIVISION 13.
 - * PROVIDE COMPONENT IN ACCORDANCE WITH DIVISION 11 AND DIVISION 15.
 - * * FURNISHED AS PART OF A MANUFACTURER'S OR VENDOR'S PACKAGED SYSTEM UNDER DIVISION 11 AND DIVISION 15. TO BE INSTALLED IN ACCORDANCE WITH DIVISION 11 AND DIVISION 15.
 - * * * EXISTING COMPONENT, TO BE RELOCATED IN ACCORDANCE WITH DIVISION 11 AND DIVISION 15.
 - * * * * OWNER FURNISHED COMPONENT, TO BE INSTALLED IN ACCORDANCE WITH DIVISION 11 AND DIVISION 15.
 - PROVIDE COMPONENT IN ACCORDANCE WITH DIVISION 16.
 - FURNISHED AS PART OF A MANUFACTURER'S OR VENDOR'S PACKAGED SYSTEM UNDER DIVISION 11 AND DIVISION 15. TO BE INSTALLED IN ACCORDANCE WITH DIVISION 16.
 - EXISTING COMPONENT, TO BE RELOCATED IN ACCORDANCE WITH DIVISION 16.
 - OWNER FURNISHED COMPONENT, TO BE INSTALLED IN ACCORDANCE WITH DIVISION 16.
- COMPONENT DESIGNATORS ARE NOT INTENDED TO ENCOMPASS PIPING, CONDUIT, WIRING, OR CONCRETE STRUCTURES.

INSTRUMENT SYMBOLS

	FIELD MOUNTED	PANEL MOUNTED ACCESSIBLE TO OPERATOR	PANEL MOUNTED INACCESSIBLE TO OPERATOR	MOTOR STARTER MOUNTED ACCESSIBLE TO OPERATOR	MOTOR STARTER MOUNTED INACCESSIBLE TO OPERATOR
DISCRETE INSTRUMENTS					
PROGRAMMABLE CONTROLLER-BASED FUNCTIONS					
PANEL MOUNTED OIU FUNCTIONS					
PC BASED HMI WORKSTATION FUNCTIONS					

GENERAL NOTES

- DRAWINGS SHOW CONTROL, SIGNAL AND ASSOCIATED SINGLE PHASE POWER WIRING REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRING, WHETHER SHOWN OR NOT, NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- DRAWINGS SHOW APPROXIMATE LOCATIONS OF DEVICES AND PANELS, FIELD VERIFY DIMENSIONS AND ELEVATIONS.
- SHIELDED AND UNSHIELDED CONDUCTORS SHALL BE RUN IN CONDUIT. SHIELDED CONDUCTORS SHALL NOT BE COMBINED WITH UNSHIELDED CONDUCTORS IN ANY CONDUIT. NEITHER SHIELDED NOR UNSHIELDED CONDUCTORS SHALL BE INCLUDED IN THE SAME CONDUIT AS POWER WIRING.
- CONDUITS SHALL BE SIZED TO ACCOMMODATE REQUIRED CONDUCTORS AND SPARES.
- DRAWINGS DO NOT SHOW CONDUIT SYSTEMS. PROVIDE, AS A MINIMUM, PULL BOXES AS RECOMMENDED BY CONDUCTOR MANUFACTURER. CONDUITS SHALL NOT BE USED AS PULL BOXES.
- PROVIDE EXPLOSION-PROOF SEAL-OFF FITTINGS ON ALL CONDUIT EXITING CLASSIFIED OR RATED LOCATIONS. FITTINGS SHALL BE INSTALLED PER NEC.
- SHIELDED AND UNSHIELDED CONDUCTORS SHALL HAVE A MINIMUM OF 6" SEPARATION BETWEEN CONDUIT ON PARALLEL RUNS.
- SHIELDED AND UNSHIELDED CONDUCTORS SHALL BE SEPARATED BY STEEL BARRIERS IN ALL COMBINED SIGNAL JUNCTION BOXES AND INSTRUMENT TERMINATION CABINETS.
- CONDUCTORS SHALL NOT BE SPLICED EXCEPT AT TERMINALS OR AS DESIGNATED BY ENGINEER.
- FOR EACH CONDUIT, PROVIDE A MINIMUM OF TWO CONDUCTORS OR 10% OF TOTAL CONDUCTORS IN CONDUIT, WHICHEVER IS GREATER AS SPARES. TAG BOTH ENDS OF EACH SPARE. TERMINATE EACH END OF SPARE CONDUCTORS AT TERMINALS WHENEVER POSSIBLE.
- SPARE AND GROUND CONDUCTORS ARE GENERALLY NOT SHOWN IN WIRING TABLES.

INDEX LEGEND

() #14	(QUANTITY)	#14 THHN/THWN CONDUCTORS.
() STP	(QUANTITY)	#16 SHIELDED TWISTED PAIR.
() MB	(QUANTITY)	#16 SHIELDED TWISTED PAIR (MODBUS).
() 3C-S	(QUANTITY)	#16 SHIELDED 3-CONDUCTOR.
() 4C-S	(QUANTITY)	#16 SHIELDED 4-CONDUCTOR.
() 5C-S	(QUANTITY)	#16 SHIELDED 5-CONDUCTOR.
() RTD	(QUANTITY)	3-WIRE RTD CABLE.
() E	(QUANTITY)	TYPE E THERMOCOUPLE CABLE.
() K	(QUANTITY)	TYPE K THERMOCOUPLE CABLE.
() FOC	(QUANTITY)	FIBER OPTIC CABLE.
() CE	(QUANTITY)	COPPER ETHERNET.
() VFC	(QUANTITY)	VENDOR FURNISHED CABLE.

INDEX SYMBOLS

0123

INSTRUMENT INDEX SYMBOL AS SHOWN ON INSTRUMENT LOCATION DRAWINGS.

0123 = INDEX NUMBER

DONOHUE

Sheet No.

5

Drawing No.

001-G-5

SEAT
ECCENTRIC PLUG

BUTTERFLY

BALL

VENTED BALL

GLOBE

GATE

KNIFE GATE

PINCH

DIAPHRAGM

SOLENOID

THREE-WAY

TELESCOPING

BALL CHECK

SWING CHECK

SPLIT DISC CHECK

DIAPHRAM CHECK

CALIBRATED BALANCE

PRESSURE CONTROL
(REGULATED SIDE)

TEMPERATURE CONTROL

PRESSURE RELIEF

AIR RELEASE AND
VACUUM RELIEF

MUD

SLUICE

WIER GATE

SLIDE

STOP PLANK (LOG)

FLAP GATE

E

XX

P

XX

H

XX

E

XX

P

XX

H

XX

ELECTRIC MOTOR

PNEUMATIC WITH
SOLENOID

HYDRAULIC WITH
SOLENOID

ELECTRIC MOTOR
WITH POSITIONER

PNEUMATIC WITH
POSITIONER

HYDRAULIC WITH
POSITIONER

NOTE ON 'XX':

ON LOSS OF PRIMARY POWER
(PNEUMATIC OR ELECTRICAL)

XX:

FC = FAIL CLOSED POSITION

FIP = FAIL INTERMEDIATE POSITION

FLP = FAIL LAST POSITION

FO = FAIL OPEN POSITION

PARSHALL FLUME

ROTAMETER

PROPELLER OR
TURBINE METER

LEVEL ELEMENT, ULTRASONIC,
SUSPENDED, NON-INTRUSIVE

LEVEL ELEMENT, RADAR,
SUSPENDED, NON-INTRUSIVE

LEVEL ELEMENT, HYDROSTATIC,
SUSPENDED, SUBMERSIBLE

LEVEL ELEMENT, INDUCTIVE,
SUSPENDED, SUBMERSIBLE

LEVEL ELEMENT, BUBBLER

PULSE-DOPPLER
VELOCITY PROFILER

CLAMP ON
ULTRASONIC FLOWMETER

MAGNETIC FLOWMETER

PITOT-STATIC

VENTURI OR
FLOW TUBE

VORTEX SHEDDING

ORIFICE METER

BALL FLOAT

FLOAT, MAGNETICALLY
ACTIVATED REED SWITCH

ANALYSIS ELEMENT,
SUSPENDED, IMMERSIBLE

THERMAL DISPERSION
HOT-TAP RETRACTABLE
FLOW ELEMENT

SWITCHED RECEPTACLE
(POWER, CONTROL OR
SIGNAL) WITH CORD
AND PLUG SET

BLIND FLANGE
OR CLEAN OUT

DRAIN

STRAINER

FLUSHING WATER
CONNECTION

SEAL WATER
CONNECTION

EJECTOR

AUTOMATIC
SAMPLER

DIFFUSER

VENT

PURGE SET
X: W = WATER
A = AIR

PULSATION DAMPENER

EXPANSION JOINT

FLAME ARRESTOR

FLAME TRAP
ASSEMBLY

FLAME CHECK

DESK MOUNTED MONITOR
AND KEYBOARD

MEDIA CONVERTER

120V

MIXER WITH
ELECTRIC MOTOR

ELECTRIC MOTOR

MANUAL SAMPLE
PORT

AUTOMATIC DRAIN

MANUAL
DRIP TRAP

DIAPHRAGM SEAL

ANNULAR SEAL

FLOW STRAIGHTENING
VANE

CALIBRATION CHAMBER

DENSITY METER
X: N - NUCLEAR
O - OPTICAL
U - ULTRASONIC
M - MICROWAVE

RUPTURE DISK

BALANCING VALVE

ANTENNA

DESK MOUNTED THICK CLIENT/
WORK STATION WITH MONITOR(S)

INDUSTRIAL DATA OUTLET W/
120VAC OUTLET AND ETHERNET
CONNECTION

X

S

UNIVERSAL INPUT/OUTPUT
(I/O = I/O POINT TYPE)

I/O POINT TYPES:

DI (DIGITAL INPUT)

RO (RELAY OUTPUT)

AI (ANALOG INPUT)

AO (ANALOG OUTPUT)

RTD (RESISTANCE TEMPERATURE DETECTOR)

NOTE ON 'X':

X = TOTAL NUMBER OF I/O WHERE MORE THAN ONE
I/O IS REQUIRED. IF QUANTITY IS NOT SHOWN
THEN ONE I/O IS REQUIRED.

SUBMERSIBLE PUMP

CENTRIFUGAL PUMP
(DRY PIT, PLAN VIEW)

CENTRIFUGAL PUMP
(DRY PIT, ELEVATION)

CENTRIFUGAL PUMP
(INLINE)

VERTICAL TURBINE
PUMP

PROGRESSING CAVITY
PUMP

CENTRIFUGAL BLOWER

CHEMICAL INDUCTION
MIXER

ROTARY LOBE
PUMP, BLOWER OR COMPRESSOR
(POSITIVE DISPLACEMENT)

AXIAL FLOW
PUMP

AIR OPERATED DIAPHRAGM PUMPS
W. INTEGRAL CHECK VALVES:

CYLINDER ASSIST

SPRING RETURN

COMPRESSOR
(PISTON)

CHEMICAL FEED
PUMP

PLUNGER PUMP

DIAPHRAGM PUMP

HOSE PUMP

NOTE ON 'X':

AS : ADJUSTABLE SPEED

CS-1 : CONSTANT SPEED (SINGLE SPEED)

CS-2 : CONSTANT SPEED (TWO SPEED)

CS-R : CONSTANT SPEED (REVERSING)

MS : MECHANICAL SHIV (ADJUSTABLE)

PROCESS

XXX
A

SOURCE SHEET NO. NOT VISIBLE
XXX = DESTINATION SHEET NO.
A = INTERFACE DESIGNATOR

ELECTRICAL

XXX
A

SOURCE SHEET NO. NOT VISIBLE
XXX = DESTINATION SHEET NO.
A = INTERFACE DESIGNATOR

TO EXISTING INTERFACE
NOT IN CONTRACT

TO NEW OR FUTURE INTERFACE
NOT IN CONTRACT

Date

Checked By

Drawn By

Revision Description

Revision Number

Designed By

Drawn By

Checked By

Approved By

Filename

Project No.

Project Date

KJA

KJA

XXX

XXX

2 - 001-LEGENDS.DWG

14007

JAN 2022

VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL

INSTRUMENTATION AND CONTROL
STANDARD SYMBOLOLOGY

DONOHUE

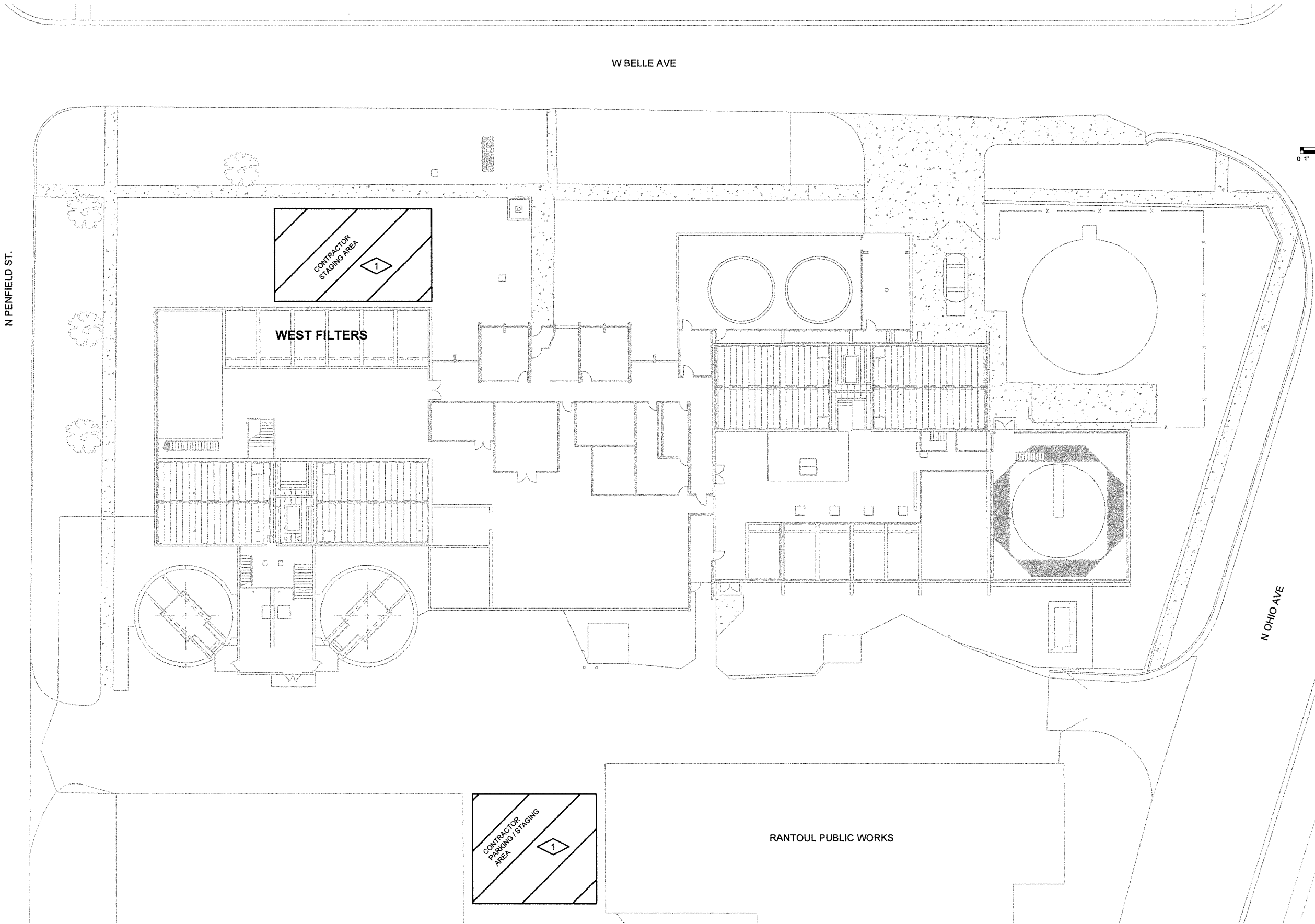
Sheet No.

6

Drawing No.

001-G-6

Page 219 of 226



PLAN NOTES:

1. COORDINATE WITH OWNER ON EXACT LIMITS OF CONTRACTOR PARKING, STAGING AND STOCKPILE AREA

Date	
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Drawn By	
Revision Description	
Revision Number	
Designed By	KJA
Drawn By	KJA
Checked By	XXX
Approved By	XXX
Filename	3 - 002CP-1.DWG
Project No.	14007
Project Date	JAN 2022

VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL

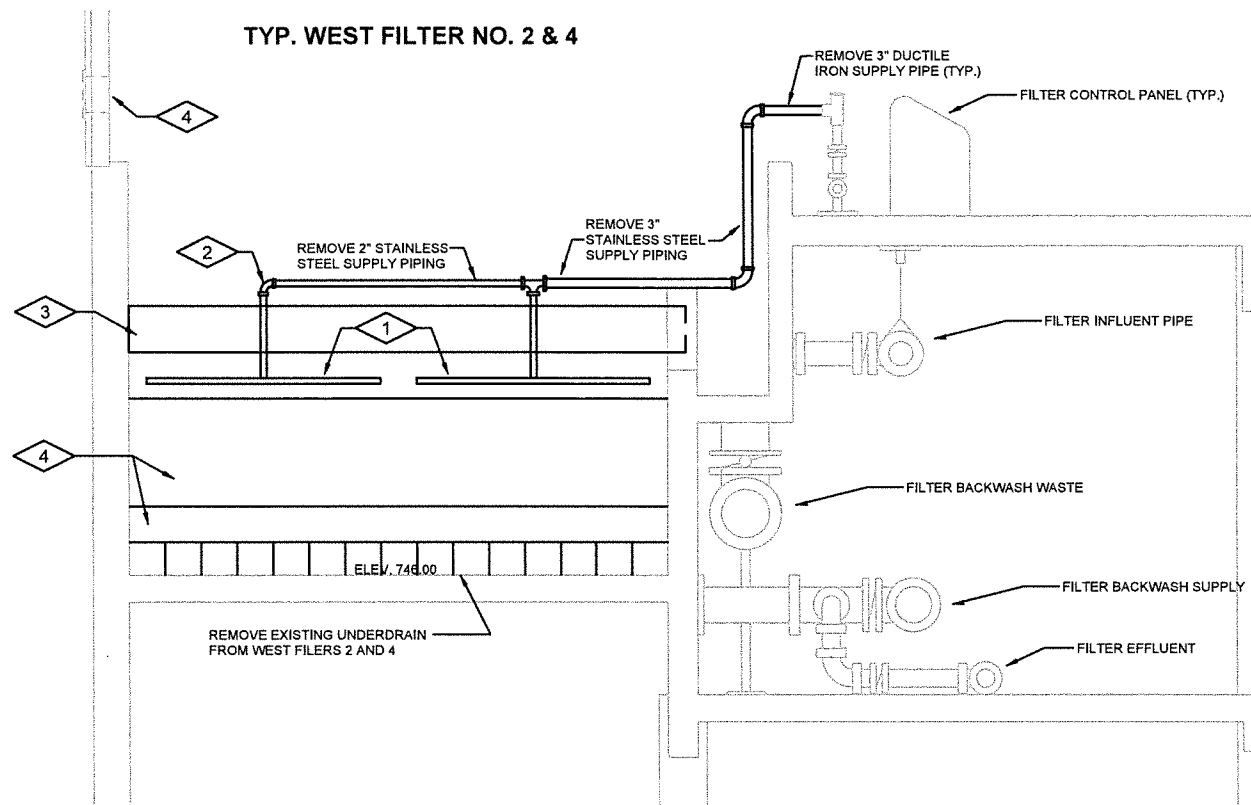
SITE
LOCATION MAP



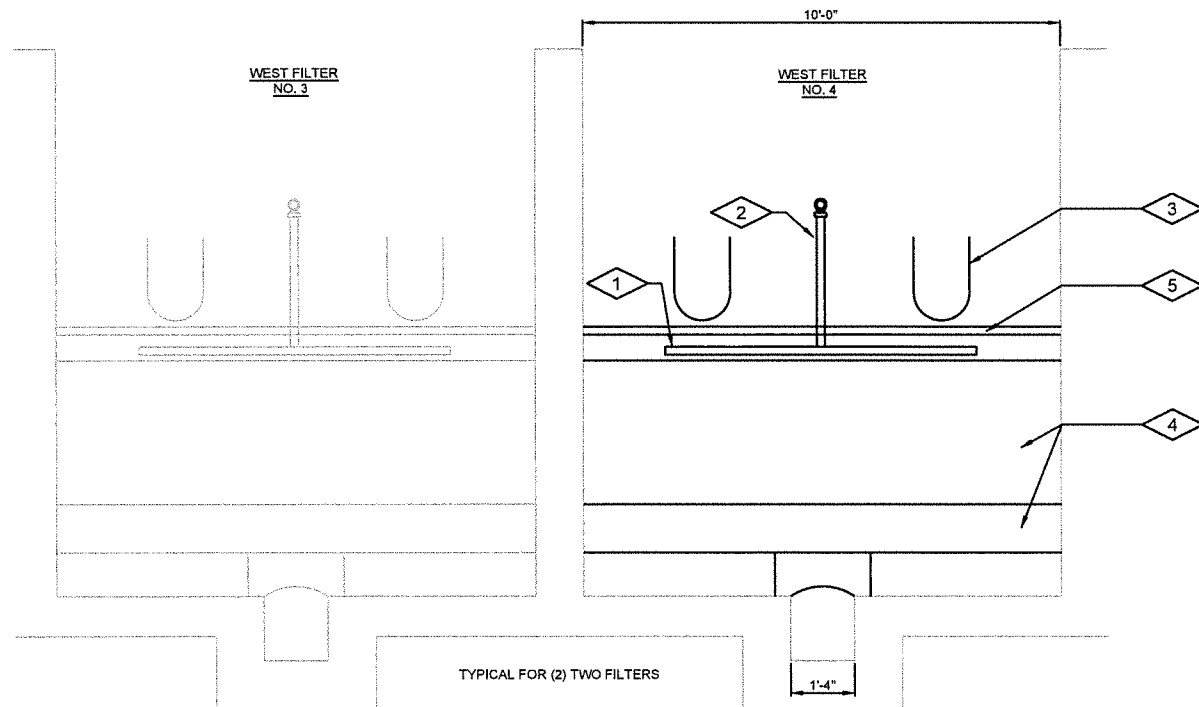
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Drawing No.

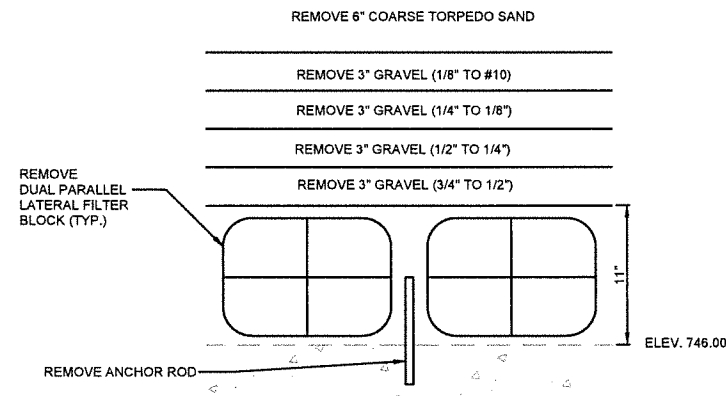
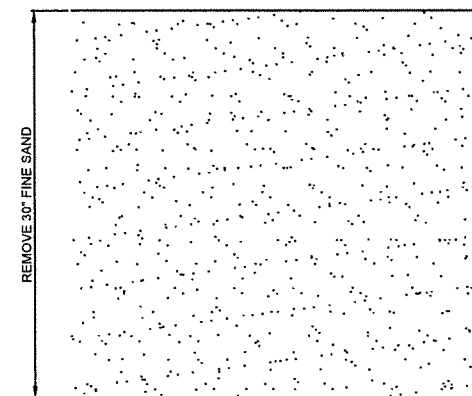
002-CK-1



SECTION A
100-R-1
0 3' 8'



SECTION B
100-R-1
0 1' 2'



TYP. CROSS SECTION FILTERS 2&4
NTS

PLAN NOTES:

1. REMOVE SURFACE WASHER
2. REMOVE SURFACE WASHER SUPPLY PIPING AND FITTINGS
3. TEMPORARILY REMOVE AND STORE WASHWATER TROUGHS FOR REINSTALLATION
4. REMOVE AND DISPOSE OF EXISTING FILTER MEDIA AND SUPPORT GRAVEL FROM WEST FILTERS 2 AND 4 (SEE DETAIL ON THIS SHEET) VIA 12" DIA. EXISTING CUT OUT
5. REMOVE WASHWATER TROUGH / SURFACE WASHER SUPPORTS FROM WEST FILTERS 2 AND 4

GENERAL NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO CONSTRUCTION AND/OR FABRICATION.
2. FULL TONE COMPONENTS TO BE REMOVED.
3. SAWCUT AND REMOVE CONCRETE TO THE LIMITS NOTED. IN EXPOSED AREAS NOT COVERED BY NEW CONSTRUCTION, REMOVE REINFORCEMENT AND EMBEDMENTS 1" BEYOND FINISHED SURFACE AND PATCH SURFACE WITH PATCHING MORTAR TO MATCH ADJACENT FINISHED SURFACE.
4. REMOVE CONCRETE ANCHORS, ANCHOR BOLTS, AND OTHER EMBEDMENTS FOR MATERIALS AND EQUIPMENT BEING REMOVED. IN EXPOSED AREAS NOT COVERED BY NEW CONSTRUCTION, REMOVE CONCRETE ANCHORS, ANCHOR BOLTS, AND OTHER EMBEDMENTS 1" BEYOND FINISHED SURFACE AND PATCH SURFACE WITH PATCHING MORTAR. FINISH SURFACE TO MATCH ADJACENT FINISHED SURFACE.
5. WHERE EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED POWER AND CONTROL WIRING AND CONDUIT BACK TO SOURCE. REMOVE JUNCTION BOXES AND PULL BOXES ASSOCIATED WITH THE REMOVED CONDUITS. WHERE CONDUIT SYSTEM CONTAINS CIRCUITS TO OTHER EQUIPMENT THAT REMAINS, RETAIN THESE CIRCUITS AND RELOCATE EXISTING CONDUIT AND EXTEND EXISTING CIRCUITS AS REQUIRED FOR THE INSTALLATION OF NEW EQUIPMENT.
6. REMOVE ALL SUPPORTS ASSOCIATED WITH REMOVED PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT. REMOVE RODS AND FASTENERS FROM CEILINGS, FLOORS, AND WALLS WITH CARE. WHERE SURFACE HAS BEEN MARRED, CHIPPED, SPAWLED, ETC. AS A RESULT OF REMOVAL, PATCH SURFACE WITH PATCHING MORTAR AND FINISH TO MATCH ADJACENT FINISHED SURFACE.
7. REMOVE EXISTING CONCRETE PADS OF ANY EQUIPMENT BEING REMOVED. REMOVE CONCRETE REINFORCEMENT A MINIMUM OF 1" BEYOND FINISHED SURFACE AT ANY LOCATION WHERE NEW CONCRETE PAD WILL NOT COVER ROUGH SURFACE OF REMOVED PAD. PATCH SURFACE WITH PATCHING MORTAR AND FINISH TO MATCH ADJACENT FINISHED SURFACE.
8. WHERE OPENINGS ARE LEFT IN WALLS, SLABS, OR CEILINGS DUE TO REMOVED PIPING, DUCTWORK, EQUIPMENT, OR OTHER WORK, PATCH OPENING TO MATCH ADJACENT SURFACES UNLESS NOTED OTHERWISE. THE PERIMETER OF OPENINGS IN CONCRETE WALLS AND SLABS EXPOSED TO EARTH, WEATHER, OR WATER SHALL BE LINED WITH A GASKET TYPE WATERSTOP PRIOR TO PATCHING OF THE WALL. OPENINGS IN PRECAST CONCRETE ROOF MEMBERS ARE TO BE PATCHED WITH CONCRETE AND DOWELED TO THE EXISTING ROOF MEMBERS UNLESS NOTED OTHERWISE. ROOFING SYSTEM SHALL BE PATCHED TO PREVENT ANY LEAKING AT THE OPENING.

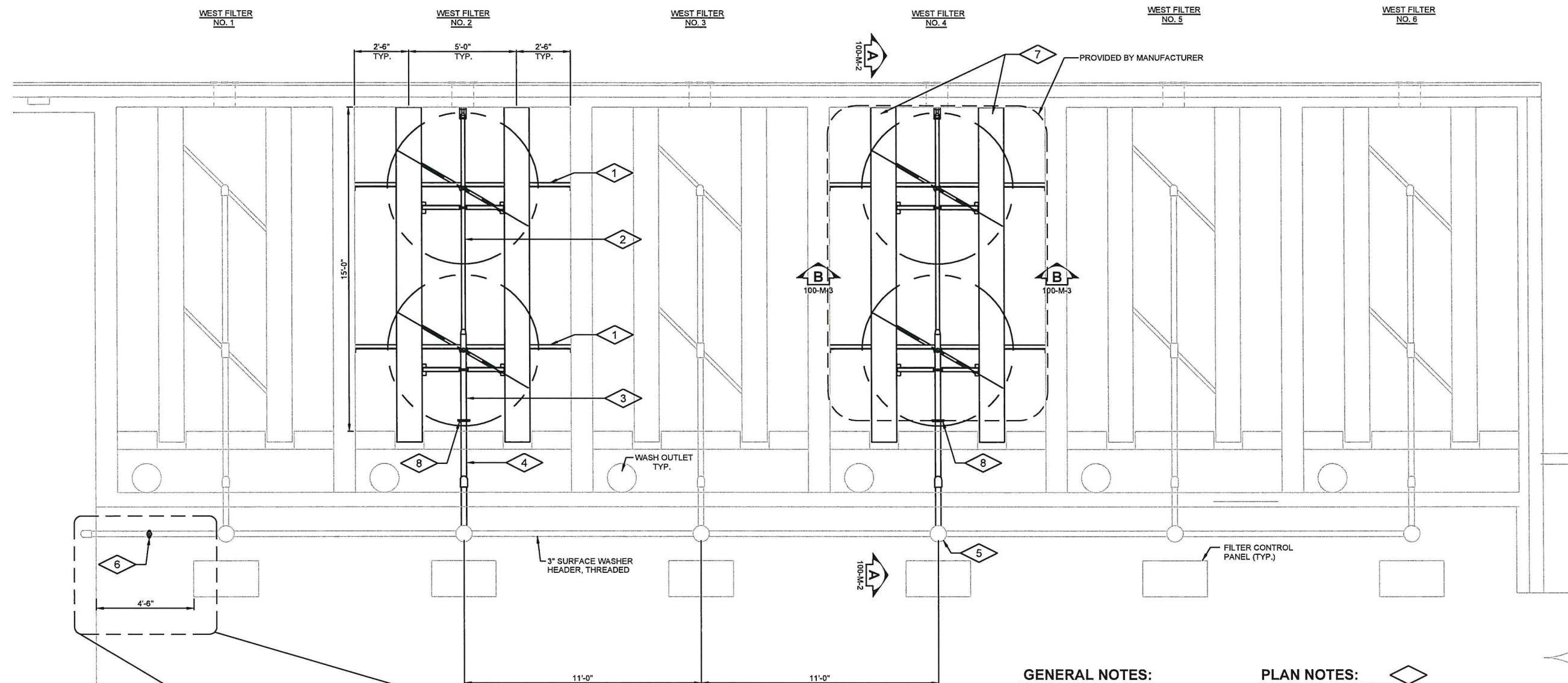
VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL
WEST FILTERS
REMOVAL SECTIONS



Sheet No. 9

Drawing No.

100-R-2



GATE VALVE, V405 DETAIL 1
NTS

PLAN VIEW @ ELEVATION 756.00
0 3' 8'

GENERAL NOTES:

1. FURNISH AND INSTALL NEW FILTER EQUIPMENT, UNDERDRAINS, AND MEDIA INTO EXISTING FILTER CELLS 2 AND 4
2. SURFACE WASH SUPPLY PIPING AND FITTINGS PROVIDED BY MANUFACTURER SHALL BE CONSTRUCTED OF SCH. 5 TYPE 304 STAINLESS STEEL

PLAN NOTES:

1. PROVIDE TROUGH / AGITATOR STABILIZER, TYP.
2. PROVIDE 2" FI AGITATOR HEADER PIPING, TYP. SEE SPECIFICATION 46 61 16.
3. PROVIDE 3" FI AGITATOR HEADER PIPING, TYP. SEE SPECIFICATION 46 61 16
4. PROVIDE 3" FI AGITATOR SUPPLY PIPING, TYP.
5. CONNECT TO EXISTING VACUUM BREAKER, TYP.
6. PROVIDE 3" GATE VALVE, V405. CUT IN VALVE ON SURFACE WASH HEADER. SEE DETAIL 1 ON THIS SHEET
7. REINSTALL EXISTING WASHWATER TROUGHS IN FILTERS 2 & 4. AND PROVIDE NEW MOUNTING HARDWARE
8. PROVIDE FLANGE CONNECTION. MANUFACTURER 3" FI AGITATOR HEADER PIPING STARTS 6" INSIDE FILTER AT FLANGE CONNECTION. SEE SPEC 46 61 16



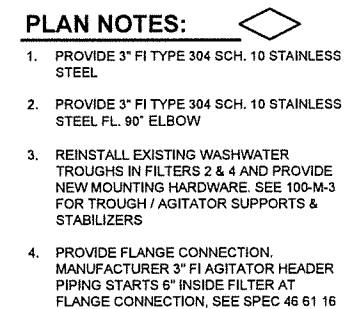
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Revision Description	
Revision Number	
Designed By	KJA
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VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL
WEST FILTERS
PLAN



Sheet No.	10
Drawing No.	

100-M-1

[illegible]

Designed By	KJA
Drawn By	KJA
Checked By	XXX
Approved By	XXX
Filename	6 - 100MP2.DWG
Project No.	14007
Project Date	JAN 2022

VILLAGE OF RANTOUL, ILLINOIS
WEST WATER TREATMENT PLANT
FILTER UPGRADES
RANTOUL, IL

WEST FILTERS
SECTION AND DETAIL

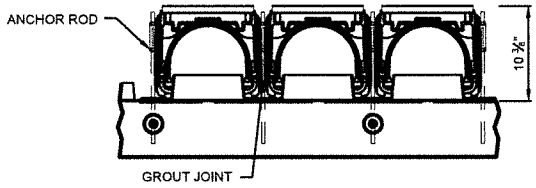
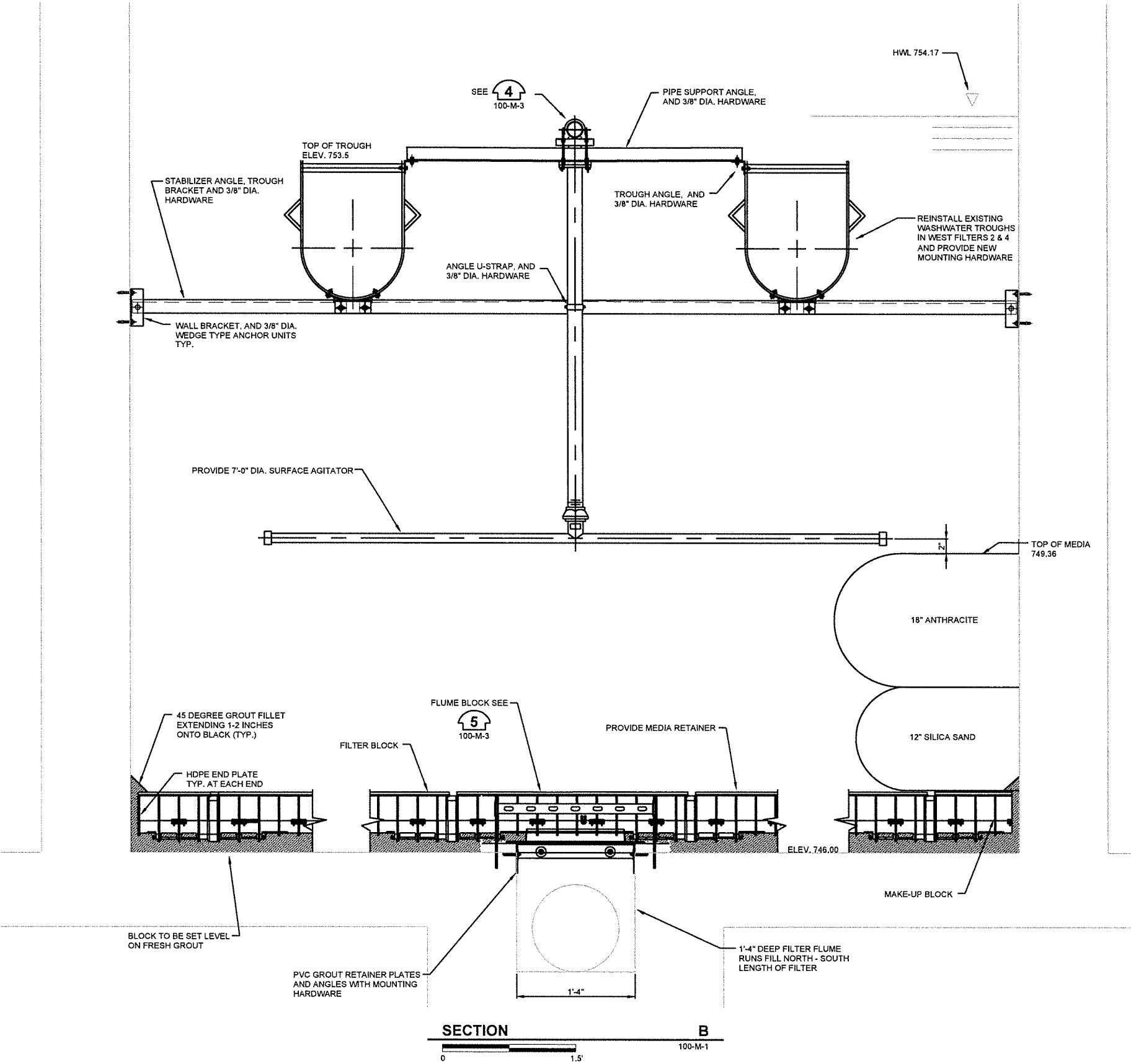


Sheet No. 11

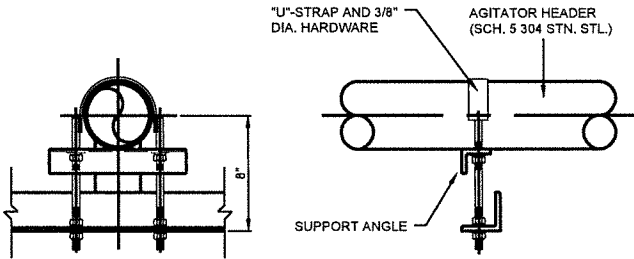
Drawing No.

100-M-2

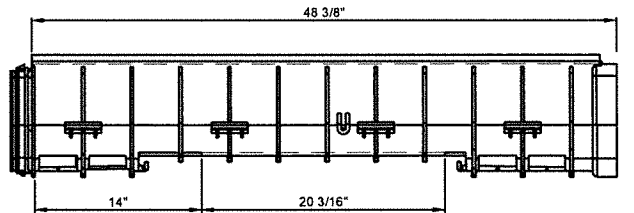
TYPICAL FOR WEST FILTER NO. 2 & 4



UNDERDRAIN SIDE PROFILE 3
NTS 100-M-2

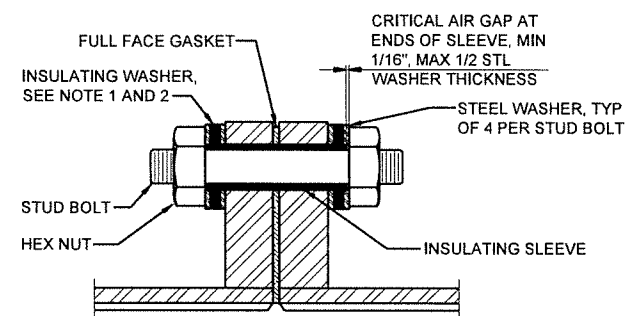


SURFACE AGITATOR SUPPORT DETAIL 4
NTS 100-M-3



CENTER FLUME BLOCK DETAIL 5
NTS 100-M-3

Date	
Checked By	
Drawn By	
Revision Description	
Revision Number	
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Project No.	14007
Project Date	JAN 2022
VILLAGE OF RANTOUL, ILLINOIS WEST WATER TREATMENT PLANT FILTER UPGRADES RANTOUL, IL	
WEST FILTER SECTION AND DETAILS	
DONOHUE	
Sheet No.	12
Drawing No.	100-M-3



NOTES:

1. DOUBLE INSULATING WASHER SET FOR EXPOSED FLANGES.
2. SINGLE INSULATING WASHER SET FOR BURIED OR SUBMERGED FLANGES, PLACE INSULATORS ON UNPROTECTED SIDE OF FLANGE.
3. TEST COMPLETED JOINT FOR ELECTRICAL ISOLATION AND REPAIR AS REQUIRED.
4. FOR PIPE LESS THAN 36-INCHES DIAMETER, DELETE INNER STEEL WASHERS.

INSULATING FLANGE DETAIL

M709

NTS