

## CITY COUNCIL PROCEEDINGS

August 25, 2021

The City Council of the City of David City, Nebraska, met in open public session at 7:00 p.m. in the meeting room of the City Office located at 557 N. 4<sup>th</sup> Street, David City, Nebraska. The Public had been advised of the meeting by publication of notice in The Banner Press on August 19, 2021, and an affidavit of the publisher is on file in the office of the City Clerk. The Mayor and members of the City Council acknowledged advance notice of the meeting by signing the Agenda which is a part of these minutes. The advance notice to the Public, Mayor, and Council members conveyed the availability of the agenda, which was kept continuously current in the office of the City Clerk and was available for public inspection on the City's website. No new items were added to the agenda during the twenty-four hours immediately prior to the opening of the Council meeting.

Present for the meeting were: Council President Tom Kobus, Council members John Vandenberg, Bruce Meysenburg, Kevin Woita and Jessica Miller, City Attorney Joanna Uden, City Administrator Clayton Keller and City Clerk Tami Comte. Mayor Alan Zavodny and Council member Pat Meysenburg were absent.

Also present for the meeting were: Interim Water Supervisor Aaron Gustin, Michael Geier and Barbara Johnston of Snyder & Associates, Darin Jacobs of Snyder & Associates via Zoom, Ethan Joy and Blake Birkel of JEO, Inc., Bob Veenstra of Veenstra & Kimm, Larry & Jeanette Heins, Chris & Nancy Kozisek, and Molly Hunter of the Banner-Press.

The meeting opened with the Pledge of Allegiance.

Council President Tom Kobus informed the public of the "Open Meetings Act" posted on the east wall of the meeting room and asked those present to please silence their cell phones. He also reminded the public that if they speak tonight in front of the Council that they must state their name and address for the record.

Council member Jessica Miller made a motion to approve the minutes of the August 11, 2021 meeting as presented. Council Member John Vandenberg seconded the motion. The motion carried.

Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1

City Administrator Clayton Keller stated that there were no bids received for the safe deposit boxes, however there was someone who said they would take them for salvage.

City Attorney Joanna Uden stated that she would research how to proceed.

Council member Bruce Meysenburg made a motion to table the bids for the safe deposit boxes from the new office at 490 "E" Street. Council Member Tom Kobus seconded the motion. The motion carried.

Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1

City Administrator Clayton Keller stated that there were no bids received for the bank items (file cabinet, eight bank file cabinet, teller locker with combination lock, six bond box nest).

City Clerk Tami Comte said, "We'll just keep these items. We just thought maybe we could get something for them, but since there aren't any bids, we'll just keep them."

City Administrator Clayton Keller stated that there are three engineering firms that will make presentations to the Council so the Council can select the firm that they feel will be the best to perform the evaluation of the Wastewater Treatment Plant.

Michael Geier and Barbara Johnston of Snyder & Associates introduced themselves and gave a brief explanation of their company and their qualifications. Darin Jacobs of Snyder & Associates presented via Zoom and stated that he would go back to the basics to determine why the wastewater plant was not working the way that the City hoped it would.

Bob Veenstra of Veenstra & Kimm introduced himself and gave a brief explanation of his company and their qualifications. He stated that they had a head start because they had been working on a project involving the anaerobic lagoon. He also stated that he has extensive experience as an expert witness and is an expert on nitrification, particularly cold weather nitrification.

Ethan Joy and Blake Birkel of JEO, Inc. introduced themselves and gave a brief explanation of their company and their qualifications. They outlined what they saw as the problem areas with the wastewater facility and what they felt that some of the solutions should be.

Council member Jessica Miller made a motion to select the engineering firm of Veenstra & Kimm to perform the evaluation of the Wastewater Treatment Plant. Council Member Kevin Woita seconded the motion. The motion carried.

Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1



## STATEMENT OF QUALIFICATIONS FOR

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Engineering Services for Wastewater  
Treatment Plant Evaluation

City of David City, Nebraska

August 18, 2021

## PREPARED FOR

City of David City, Nebraska  
557 North 4<sup>th</sup> Street  
David City, NE 68832

August 18, 2021

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**SNYDER & ASSOCIATES, INC.**  
12020 Shamrock Plaza, Suite 200  
Omaha, Nebraska 68154  
Office: 402.934.5122



## STATEMENT OF INTEREST & QUALIFICATIONS

Snyder & Associates, Inc. is extremely interested in providing engineering services to the City of David City for an evaluation of the wastewater treatment plant. We have assembled a team of knowledgeable staff from Snyder & Associates, Inc., partnering with Engineering Technologies, Inc. (ETI) for mechanical and electrical engineering services. Our Team members have worked together for years to provide successful engineering projects in the wastewater sector. We are confident that our Team of experienced civil, mechanical, and electrical engineers, planners, technicians, and operators have the expertise necessary to carry out the services for this important project.

With aging systems, problems can exist for years and remain unresolved due to oversight, lack of maintenance, or inadequate training on new equipment. We will evaluate your system independently, objectively, and thoroughly to provide a fresh perspective and new insights. We routinely design projects very similar to David City's wastewater treatment facility in our work with other municipal clients. We appreciate the opportunity to share this experience and showcase our exceptionally high quality of service with you.

At Snyder & Associates, Inc., we understand that the health and safety of your community, as well as your staff, is of utmost importance and wastewater utilities play a vital role in that. We'll help you evaluate, optimize, protect, and extend the life of your wastewater system. Our expertise ranges from small lagoon systems all the way up to complex wastewater plants — encompassing activated sludge, fixed-film, and lagoon-based systems.

In addition to public safety, a community also needs a system that functions properly, meets the demands of your City, and complies with evolving regulatory requirements. Snyder & Associates, Inc. has worked on numerous water and wastewater treatment plants for towns across the Midwest and are intimately familiar with the challenges and constraints communities face. We can provide the analysis and recommendations necessary to give you confidence in your system and peace of mind for your stakeholders.

We understand that budget constraints can limit the improvements a City is able to complete and will work with you to determine the most appropriate, cost-effective, and right-size solution for your system. We can help you navigate the funding process and assist with grant applications if needed. Traditional funding sources for wastewater projects include the following:

- Revenue Bonds
- General Obligation Bonds
- Water Wastewater Advisory Committee (WWAC) Clean Water State Revolving Fund (CWSRF)
- The USDA Rural Development Water and Waste Disposal Loan and Grant Program
- The Nebraska Department of Economic Development Community Development Block Grant (CDBG) Program



*Aerated lagoon system at the wastewater treatment plant in Lenox, Iowa. Read more about this project and more in the Related Technical Experience section.*

On the following pages of this proposal, we display select projects recently completed in other communities that have added to our knowledge and understanding of wastewater treatment system processes and evaluations which can be leveraged towards your system. We encourage you to contact our references. Snyder & Associates, Inc. values building long-term relationships with the people we serve, which is why 94 percent of our business is made up of repeat clients who continue to trust us as an extension of their staff. To learn more about the wastewater engineering services we provide, visit <https://www.snyder-associates.com/services/wastewater/>.

We look forward to fostering a partnership with the City of David City and are invested in the success of your wastewater treatment plant. The Snyder & Associates, Inc. Team offers a committed and experienced group of professionals that bring energy, innovation, and proven results. Thank you for the opportunity to make a submission for this exciting endeavor. We welcome the opportunity to discuss our Team, proposed approach, and value we can bring to you and your community partners.

## RELATED TECHNICAL EXPERIENCE

### WASTEWATER TREATMENT PLANT – LENOX, IOWA

This project was developed to meet the NPDES compliance schedule issued to the City of Lenox for reduced ammonia-nitrogen and new E. coli effluent limits. Improvements considered through facility planning included mechanical plant upgrades, but reuse of the existing lagoon with added ammonia removal and disinfection equipment proved to be the most cost-effective solution. Upgrades to lagoon aeration provided more reliable and energy-efficient lagoon treatment, while the addition of a submerged attached growth reactor (SAGR) provided the denitrification necessary for Lenox to meet their low ammonia-nitrogen limits. UV disinfection of the final effluent provided the seasonal treatment of E. coli that is required.

Snyder & Associates, Inc. prepared the DNR-required Facility Plan to address I/I issues, effluent limits, excessive influent loading values, and proposed alternatives to improve the treatment process. During the planning and design phase, new technologies were reviewed, and a previously unpermitted treatment process was piloted within the Lenox treatment plant. The ultimate design selection was a function of affordability, ease of maintenance, and treatment performance needs. These improvements were funded through an SRF Clean Water Loan and a CDBG Grant.

Through the conversion of lagoon treatment into SAGR, we allowed this plant to meet much stricter ammonia limits among others. This knowledge base opens numerous opportunities for the advancement of your facility.

Reference	Name	Title	Contact
	Allison Kitzman	City Administrator	641.333.2228

### WASTEWATER TREATMENT PLANT IMPROVEMENTS – COLESBURG, IOWA

The City of Colesburg had two separate wastewater treatment facilities, each of which had controlled discharge lagoons. This CDBG funded project consisted of converting one set of lagoons into flow equalization basins and installing a lift station that would pump the wastewater to the second facility. The second facility was converted into a continuous discharge lagoon followed by a Submerged Attached Growth Reactor (SAGR) and UV disinfection. Through the coordination of flow meters and system controls, this system was designed with the capability of storing peak flows within the flow equalization basin, which aided in keeping the design size of the wastewater treatment plant improvements to a minimum. Expansion of the wastewater treatment facilities was limited to the existing property boundaries, so a compact solution was paramount. Construction delays forced the start-up of the SAGR process in the fall, the least ideal time of the year for establishing the nitrifiers. However, coordinated efforts with the City and contractor resulted in a start-up with zero permit violations.



In utilizing the systems already in place and working within the existing footprint, our Team was able to avoid land acquisition needs and make the system more cost effective. We are skilled at considering unique system alternatives which utilize new, yet proven technologies.

Reference	Name	Title	Contact
	Cory Schenke	City Maintenance	563.856.3185

**WASTEWATER TREATMENT PLANT IMPROVEMENTS – ALBANY, MISSOURI**

The City of Albany operated a lagoon-based wastewater treatment system for years. Once a new NPDES permit was issued by the Missouri DNR requiring treatment upgrades to meet updated discharge limits, Snyder & Associates, Inc. worked with the City to determine appropriate treatment technologies and prepare required engineering reports for approval by the Missouri DNR and funding agencies. Installation of a mechanical plant, along with the conversion of two of the existing lagoon cells into sludge and equalization basins, was identified as the most cost-effective solution.

A sequencing batch reactor (SBR) was installed to provide significant treatment in a small footprint while using the existing lagoon space to the maximum extent possible. The new system allows flows to be controlled to maximize the treatment process while storing untreated wastewater in a flow equalization basin until it can be returned to the treatment process. The treatment plant is also equipped with a modern headworks facility, including screening and grit removal, laboratory and SCADA monitoring, electrical room, and garage. The system is equipped with UV disinfection to meet the required NPDES limits.

Snyder & Associates, Inc. worked closely with the City through evaluation, process selection, assistance with funding, design, construction, and start-up. The improvements were funded through Rural Development and CDBG funding.

Tasked with an overloaded lagoon system, Snyder & Associates, Inc. designed a system with added SBR technology updates that would meet all regulatory limits while maximizing the use and potential of the municipality's current system

Reference	Name	Title	Contact
	Derek Brown	City Administrator	660.726.3935

**WASTEWATER TREATMENT PLANT IMPROVEMENTS – STANBERRY, MISSOURI**

The City of Stanberry operated a trickling filter wastewater treatment plant since the 1950s. A new NPDES permit was issued by the Missouri DNR, which required treatment upgrades to meet updated discharge limits. Snyder & Associates, Inc. began working with the City to determine appropriate treatment technologies, host site visits with City staff and prepare required engineering reports for approval by the Missouri DNR and funding agencies. Working with the Snyder team, the City determined that construction of a new wastewater treatment plant was the most cost-effective solution.

The Aeromod activated sludge treatment process was determined to best fit the needs of Stanberry. Aeromod uses high technology, compact, activated sludge process to deliver excellent effluent quality. The entire treatment process is located in a single subdivided tank with space for aeration, clarification and biosolids digestion. The treatment plant was also equipped with a modern headworks facility, including screening and grit removal. The plant was designed to meet very low ammonia nitrogen limits as well as to provide the ability to meet longer-term nutrient reduction requirements for Total Phosphorus and Total Nitrogen. A UV system was also included in the project to meet new disinfection requirements.

Snyder & Associates, Inc. worked closely with the City through evaluation, process selection, assistance with funding, design, construction, and start-up. The improvements were made possible through Rural Development funding.

Our experts took a system that was no longer meeting permitting limits and with strategic updates, modified it to become a facility that will be able to complete nutrient reduction and meet all requirements for the foreseeable future.

Reference	Name	Title	Contact
	Laverne Smithson	City Administrator	660.783.2725 x3



**WATER TREATMENT PLANT WATER CHEMISTRY – BLAIR, NEBRASKA**

The City of Blair operates a 20 MGD surface water treatment plant that draws raw water from the Missouri River. The Blair system serves approximately 10,000 residents of Blair and the surrounding area served by rural water. Residential and commercial demand ranges from approximately 1 to 4 MGD, while industrial demand approaches 15 MGD. The treatment plant process generally consists of sedimentation, lime softening, filtering, and chlorine contact. Two types of water quality are produced, one for residential and commercial use and one for industrial use. Snyder & Associates, Inc. has worked closely with the Blair operations team to optimize the production of specific water qualities to best suit the demand. As a surface water treatment plant, raw water chemistry is highly variable, making plant operations an ongoing challenge. In order to proactively control disinfection byproduct formation due to extended storage and distribution durations, particularly in rural water segments, the Team began generating chloramine as a distribution disinfectant. The Project Team helped by training operating staff on the creation and effective use of chloramine while also guiding start-up and control of the required specialized equipment. Snyder & Associates, Inc. worked closely with the City to provide on-site water chemistry training classes to Blair operating staff. As one of only a handful of surface water treatment plants in the state of Nebraska, the skills to successfully operate the facility are unique to the area. Snyder & Associates, Inc. continues to assist the City whenever the need arises.

The Snyder Team has been able to help the City of Blair optimize its treatment process and successfully deal with variable raw water quality. This illustrates our ability to perform high-quality work in your project vicinity.

Reference	Name	Title	Contact
	Allen Schoemaker	Director of Public Works	402.426.4191

**INDUSTRIAL WASTEWATER RESOURCE RECOVERY FACILITY – NEBRASKA**

Snyder & Associates, Inc. has been the on-call engineer for a cooked foods production company since 2011 and continues ongoing work with the owner. Working with the company, Snyder & Associates, Inc. completed design and provided support for the construction of a Wastewater Resource Recovery Facility.

The wastewater contains food particles, inert matter, and grease from the cooking process. Since the vast majority of used water was received in a few short overnight hours, when the majority of wastewater operating staff was not on site, the system includes a heated flow equalization tank to optimize equipment sizes.

A new gravity sewer was constructed to carry water to the new facility. An influent pump station was required to pump the water from the sewer to a rotary fine screen which removes the majority of large particulate matter. Water then travels to the flow equalization tank, where it is held until processing capacity is available. The flow equalization tank is steam heated and continuously mixed to prevent stratification and coagulation. When treatment capacity is available, water is pumped to a high technology Dissolved Air Flotation (DAF) unit to remove grease and other light fractions (float) present in the water. Float material removed is pumped to a steam-heated storage tank. Cleaned water is then pumped to the city sewer for final treatment.

The process is housed in an attractive new building constructed for that purpose. The building includes office & laboratory space, dedicated electrical space, and is designed for forklift access. By cleaning used water, removing saleable materials, and recovering usable energy, this truly is a Resource Recovery Center.

The Snyder & Associates team was contracted by this large industrial client to create a system effectively pretreating difficult wastewater. Our Team's wastewater knowledge and experience has led to years of success for this client.

Reference	Name	Title	Contact
	Due to client confidentiality, this information is available upon request.		

## PROJECT SCHEDULE

The schedule for a project is extremely important, especially when a site has safety concerns. As the most important element of a Project Work Plan, the schedule needs to be adhered to as the project progresses and deliverables are submitted. We understand you expect us to meet the agreed-upon schedule. With a large bench of available staff and the ability to seamlessly work across multiple offices, quality staffing will be available to meet the needs of David City and the desired schedule for the wastewater treatment plant evaluation, report, and recommended improvements.

Our preliminary schedule for this project includes the following tasks and deliverables.

David City Wastewater Treatment Plant									
PRELIMINARY SCHEDULE									
Task	Project Timeline								
	August	September	October	November	December	January	February	March	April
Proposal Submittal	■								
Proposal Review & Contract Award	■	■							
Notice to Proceed			■						
Kickoff Meeting			■						
Review of Existing Technical Information			■	■					
1st Site Visit - walkthrough with facility staff				■					
Analyze Findings from Walkthrough & Technical Information				■	■				
2nd Site Visit - review preliminary findings					■				
Development of Improvement Alternatives					■	■			
3rd Site visit - review alternatives & recommendations						■	■		
Completion of WWT Evaluation Report							■	■	
Present Final Report to City and Facility Staff								■	■
Submit for Agency Review & Concurrence									■
City Identifies Preferred Alternative(s)									■
Implementation of Selected Alternative(s)									■

## MEET THE TEAM



### DARIN JACOBS, PE

#### Project Principal, Water Resources Group Leader

Mr. Jacobs has been a Project Manager and Design Engineer of water and wastewater projects for more than 25 years. He leads the Water Resources Group and is a licensed Civil Engineer in 11 states, including Nebraska. His design experience includes activated sludge, fixed media, lagoon treatment systems, aerobic digesters, anaerobic digesters, pumped digester mixing systems, jet aeration mixing systems, pump stations, mechanical aeration systems, and disinfection system design. Darin started his engineering career in the construction industry, which provides unique knowledge of cost estimating and field experience necessary to successfully build projects with considerations for constructability and cost effectiveness. He has the authority to assign staff resources needed to accomplish all phases of a project and is responsible for quality assurance and control.



### BARBARA JOHNSTON, PE

#### Project Manager

Ms. Johnston has worked as a Civil Engineer and Project Manager at Snyder & Associates, Inc. for six years. She holds Bachelor's and Master's degrees in Civil Engineering, with an emphasis in sustainable community development. Barbara's experience covers a variety of areas, including roadway reconstruction, storm and sanitary sewer improvements, recreational trails, site design, construction administration and observation, and airport facilities. Her expertise includes plan preparation, permitting, site planning and design, and project coordination with clients, contractors, stakeholders, and regulatory agencies. Barbara is a licensed Professional Engineer in the states of Nebraska and Iowa and she works out of the Snyder & Associates, Inc. Omaha office.



### LINDSAY BEAMAN, PE

#### Project Engineer

Ms. Beaman is a licensed Professional Engineer with over 14 years of civil engineering and project management experience. The majority of Lindsay's project experience encompasses wastewater collections and treatment systems. As project engineer, Ms. Beaman oversees project planning and design, coordinates the project staffing and deliverables, regularly reports to the clients, and works to achieve compliance in accordance with state and federal regulatory entities. Due to the continuous need for funding on wastewater projects, Lindsay has substantial experience with many grant and loan-funded projects, as is familiar with the various requirements of each and how to collaborate to maximize funding potential. Through her extensive wastewater and municipal engineering services, Lindsay has great familiarity with Departments of Natural Resources, finance groups, USDA, FEMA, and the Army Corps of Engineers.





### CHRIS PEDERSEN, PE

#### Project Engineer

Mr. Pedersen has over 20 years of municipal consulting engineering experience in all phases of engineering projects including planning, design, right-of-way acquisition, permitting, bidding, construction observation, and construction administrations. His experience includes extensive experience in design of water and wastewater pumping systems, sanitary sewer collection systems, wastewater treatment, water treatment, water distribution, and water storage projects. Past projects include new construction as well as rehabilitation and replacement of existing facilities. Many of these projects have involved significant coordination with City and County personnel, utilities, governmental agencies such as Departments of Transportation, Departments of Natural Resources, and Army Corps of Engineers, as well as affected property owners and funding agencies.



### EMILY WICOFF, PE

#### Project Engineer

Ms. Wicoff is a licensed civil engineer with 20 years of experience. Emily serves as a water/wastewater project manager and engineer in Snyder & Associates, Inc.'s St. Joseph, Missouri location. She has a wide variety of experience in the engineering field, including management and engineering of aviation, municipal, commercial and residential site development and design, third world development, war zone reconstruction and military support construction. Emily's specific fields of technical expertise include water/wastewater design and management, site planning and development, and QA/QC compliance management.



### SHANE HOSS, PE, RCDD

#### Architectural Engineer – Electrical

Shane is a registered Architectural Engineer and has a wide variety of experience in electrical, lighting, and technology design and in project management. He is a principal engineer for Engineering Technologies, Inc. (ETI) and has played a key role as electrical engineer for a variety of wastewater treatment projects, including the Lenox Wastewater Treatment Plant Improvements.

Shane has a Masters of Architectural Engineering degree from the University of Nebraska-Lincoln, specializing in electrical design. He is registered with the BICSI Telecommunications Association as a Registered Communications Distribution Designer (RCDD). His relevant experience is summarized below.

- *Lenox Wastewater Treatment Plant Improvements – Lenox, Iowa*
- *Wiota Water Treatment Plant Expansion and Well – Wiota, Iowa*
- *Volunteer Fire Department – David City, Nebraska*
- *Butler Public Power District Facility – Butler County, Nebraska*
- *Grace Street CSO Ditch Screen Assessment and Repair – Omaha, Nebraska*



# STATEMENT OF **QUALIFICATIONS**

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Wastewater Treatment Plant  
Evaluation Project

AUGUST 18, 2021  
DAVID CITY, NEBRASKA





3000 Westown Parkway  
West Des Moines, Iowa 50266  
515.225.8000 // 800.241.8000  
www.v-k.net



August 18, 2021

Clayton Keller  
City Administrator  
557 N 4th Street  
P.O. Box 191  
David City, Nebraska 68632



**CITY OF DAVID CITY NEBRASKA  
STATEMENT OF QUALIFICATIONS  
WASTEWATER TREATMENT PLANT EVALUATION**

Veenstra & Kimm, Inc. would like to thank the City of David City for the opportunity to submit a Statement of Qualifications for the evaluation of the Wastewater Treatment Plant (WWTP). Veenstra & Kimm, Inc.'s Statement of Qualifications sets forth the information in the request for Statement of Qualifications. Veenstra & Kimm, Inc. added a short narrative description of our project approach. The project approach is intended to allow the City an opportunity to evaluate whether it believes Veenstra & Kimm, Inc. has an appropriate understanding and approach to evaluate the key issues at the wastewater treatment plant.



Veenstra & Kimm, Inc. has familiarity with the wastewater treatment plant from the work that was recently started to evaluate the issues associated with the anaerobic lagoon. As part of that work, Veenstra & Kimm, Inc. requested the City to complete a number of additional laboratory tests. Those test requests were focused on the issue of evaluating the wastewater treatment plant performance relative to meeting ammonia nitrogen limits. Those test results will greatly facilitate the timeline for this study.



As set forth in our statement of qualifications, Veenstra & Kimm, Inc.'s team will utilize the writer as the project manager and to evaluate the nitrification issues at the treatment plant. Mark Seip, P.E. brings an operational perspective to the evaluation. P.N. Reddy, P.E. will evaluate the electrical and mechanical issues in the existing headworks building.

If the City believes Veenstra & Kimm, Inc. is best qualified firm to complete this study, Veenstra & Kimm, Inc. commits to meeting the timeline and objectives for the project and looks forward to establishing a professional relationship with the City.



If you have any questions or need additional information concerning our Statement of Qualifications, please contact the writer at [bveenstra@v-k.net](mailto:bveenstra@v-k.net) or 1-800-241-8000.

VEENSTRA & KIMM, INC.

A handwritten signature in blue ink, appearing to read 'H. K. Veenstra Jr.', written over a white background.

H. K. Veenstra Jr.

## INTEREST & QUALIFICATIONS



### CONTACT

Bob Veenstra, P.E.  
3000 Westown Parkway  
West Des Moines, IA 50266  
515-225-8000 (Local)  
800-241-8000 (WATS)  
bveenstra@v-k.net

**BUILDING RELATIONSHIPS**  
**ENGINEERING SOLUTIONS**

Veenstra & Kimm, Inc. would like to thank the City of David City for the opportunity to submit a statement of qualifications for the evaluation of its wastewater treatment facility. Veenstra & Kimm, Inc. is very interested in undertaking the project.

Veenstra & Kimm, Inc. was founded in 1961 as a partnership of Bob Veenstra and Jim Kimm. The firm was founded to provide civil and environmental engineering services to municipalities. Since Veenstra & Kimm, Inc. currently has approximately 175 employees located in our offices in Iowa, Missouri, Minnesota, and Illinois.

Veenstra & Kimm, Inc.'s environmental engineering department provides a full range of services relating to the evaluation and design of wastewater treatment plants, lift stations and collection systems. Veenstra & Kimm, Inc. provides a full range of services for wastewater treatment plants including process evaluation and design, structural evaluation and design, and mechanical and electrical control and design.

Our in-house integrated design approach provides for efficiency and coordination from planning through implementation stage of the project. Veenstra & Kimm, Inc.'s approach to municipal engineering, whether in an ongoing relationship or a project basis, is to assign to single point of contact or project manager. This individual is responsible for both client liaison and overseeing the performance of the project team through planning and any subsequent implementation of projects.

For the David City Wastewater Treatment Plant evaluation Veenstra & Kimm, Inc.'s project team will be led by Bob Veenstra, Jr., P.E. Veenstra has an MS degree in Environmental Engineering and 45-years of experience in the evaluation and design of wastewater treatment facilities. The second member of the project team will be Mark Seip, P.E. Prior to pursuing his career in engineering, Seip was a licensed wastewater treatment plant operator. Seip brings the operational perspective that is critical in both the evaluation and design of wastewater treatment facilities. P.N. Reddy, P.E. will be the third key member of the project team. Reddy is an electrical/mechanical engineer with nearly 50 years of experience. Reddy will be responsible for evaluating the electrical and ventilation system issues at the existing plant, especially in the headworks building.

In addition to the three key members of the project team, members of the Veenstra & Kimm, Inc.'s structural engineering staff and electrical-mechanical engineering staff will assist through the course of the project. While those staff members are integral elements of the overall project team, the majority of the work during the evaluation and study will be undertaken by Veenstra, Seip and Reddy.

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# SIMILAR EVALUATIONS

## WASTEWATER TREATMENT FACILITY EVALUATION CITY OF GRANGER

Veenstra & Kimm, Inc. has worked with the City of Granger since 1968 on issues related to wastewater treatment, wastewater conveyance and treatment. Over that period the City has grown from a population of approximately 550 to its current population of approximately 1,700. The City is also projected to grow to a population of approximately 4,000 by 2040.

In 2015 Veenstra & Kimm, Inc. was retained by the City of Granger to evaluate its Wastewater Treatment Facility. The City was experiencing violations of its e-coli permit limit. The treatment facility was not capable of meeting the ammonia nitrogen limits in its recently issued permit.

Veenstra & Kimm, Inc. evaluated the treatment plant performance issues, its upcoming permit requirements and the City's future growth. The evaluation recommended the City construct a new SBR treatment plant with UV disinfection. The new treatment plant is located just north of the existing lagoon facilities that served as part of the treatment process since 1968. The lagoons were converted to wet weather equalization to minimize the size of the new treatment plant. The constructed wetlands that had been used both ammonia reduction and e-coli reduction since 1986 were taken out of active service and converted to a natural habitat.

The new SBR treatment plant was sized for a population of approximately 4500 to serve the City through 2040. The plant configuration is easily expandable to allow the City to increase the plant if population growth requires additional biological capacity. The process cycles for the treatment plant were established to optimize nitrification while at the same time achieving a reasonable degree of total nitrogen reduction through denitrification. The treatment plant includes UV disinfection to meet the e-coli standard the former constructed wetlands would not meet on a reliable basis.

The new \$5,800,000 treatment plant was placed in service in 2018. Over the past 3 years the treatment plant has not experienced any effluent violations.



## WASTEWATER TREATMENT PLANT EVALUATION CITY OF HAMPTON

Veenstra & Kimm, Inc. was retained by the City of Hampton to complete an evaluation of the City's treatment plant completed in 2016 by a different engineering consultant. Veenstra & Kimm, Inc.'s first assignment was to evaluate the UV disinfection system. The evaluation indicated the original design consultant had not properly evaluated the hydraulics. This resulted in the UV chamber overtopping. Veenstra & Kimm, Inc. worked with the City to reach a settlement with its original engineering consultant for that consultant to install additional piping capacity to allow the UV System to be placed in service. The piping improvements were completed in 2020 and the UV disinfection system is now fully functional.



Veenstra & Kimm, Inc. was then retained by the City to evaluate the total nitrogen removal through SBR system. One of the reasons the City of Hampton selected the SBR process was its ability to reduce total nitrogen and total phosphorus. The treatment plant is nitrifying to reduce ammonia nitrogen but is not achieving any biological denitrification.

Veenstra & Kimm, Inc. completed the nutrient reduction strategy report required under the City's NPDES permit and is working with the manufacturer of the SBR process to determine what improvements can be implemented to increase the removal of total nitrogen through the denitrification process.

## **WASTEWATER TREATMENT EVALUATION CITY OF EAGLE GROVE**

Veenstra & Kimm, Inc. has been working with the City of Eagle Grove on issues relating to wastewater treatment plant performance. Approximately two years ago the City completed a major upgrade of its wastewater treatment plant to receive the flow from a new meat processing facility located near Eagle Grove. The engineering consultant for the City at that time designed the wastewater treatment plant and established the industrial pretreatment limits for the new meat processing facility.

The meat processing facility is currently complying with its permit limits for industrial pretreatment. The biological loadings to the City's treatment plant are within the design parameters. The treatment plant is nitrifying, but is not able to meet its total nitrogen limit.

Veenstra & Kimm, Inc. worked with the City to evaluate the meat packing process and the City's treatment plant performance. The evaluation indicates the original design consultant did not take into account the total amount of carbon necessary to achieve denitrification. As a result the plant does not denitrify. The City recently negotiated a consent decree with the Iowa DNR to add micro carbon to improve the denitrification process. The City will next be working with the industry for long term solutions.

## **WASTEWATER TREATMENT PLANT CONSULTATION CITY OF GRIMES**

The City of Grimes is a rapidly growing suburban community located just northwest of the City of Des Moines. The Grimes wastewater activated sludge treatment plant was originally constructed in 1976 and has been expanded on several occasions. The City of Grimes is in the process of connecting to the regional Des Moines Metropolitan Wastewater Reclamation Authority to allow it to abandon its treatment plant. However, that connection will not be completed until approximately 2023.

The Grimes Wastewater Treatment Plant is a conventional activated sludge treatment plant. The biological loading to the treatment plant is well in excess of its design standard design loading. The Treatment Plant is able to meet its BOD<sub>5</sub> effluent limit on a regular basis, but is not able to meet the limits for ammonia nitrogen.

Veenstra & Kimm, Inc. is working with the City and its contract operator to evaluate alternatives to improve the nitrification to meet the ammonia limits. Because the treatment plant has a relatively short lifespan the options that were evaluated were lower cost options intended to improve nitrification in the short term. Two options were evaluated. The first option would be to convert one of the unused final clarifiers to a fixed media nitrification filter. The second option was conversion of the large aeration basins to a MBBR process. Under the MBBR process plastic spheres are added to the aeration basin to add a surface area to foster the growth of nitrifying bacteria that cannot compete in the dispersed environment of a conventional aeration basin. After evaluating the advantages and disadvantages of the two alternatives the City of Grimes is moving forward with the conversion of one of its larger aeration basins to an MBBR process.

## WASTEWATER TREATMENT PLANT EVALUATION CITY OF KEOKUK

Veenstra & Kimm, Inc. was retained by the City of Keokuk to complete an evaluation of its wastewater treatment plant. The Keokuk Treatment Plant is a conventional activated sludge treatment plant with large complete mix aeration basins. The treatment plant is able to meet its permit limits for ammonia nitrogen however, the treatment plant is not able to meet its permit limits for total nitrogen.



Veenstra & Kimm, Inc.'s evaluation focused on improving total nitrogen reduction while using the existing aeration basins that are in good structural condition and adequately sized. The evaluation recommended the City convert its aeration basins from a complete mix to the MLE process.

With the MLE process both recycle flow and anoxic zones will be added to facilitate the biological denitrification necessary to allow the treatment plant to meet its permit limits.

The schedule for conversion from conventional activated sludge to the MLE process has not been finalized as the City is still working with the regulatory agencies on a compliance schedule balancing the need to upgrade the treatment plant with the City's ongoing effort to eliminate combined sewer overflows.

## WATER POLLUTION CONTROL FACILITY EVALUATION CITY OF MUSCATINE

Veenstra & Kimm, Inc. was retained by the City of Muscatine to complete a facility plan and evaluation of the City's wastewater treatment facility referred to as the Water Pollution Control Facility. The Muscatine WPCF included conventional activated sludge with a high rate first stage fixed media filter.



The City of Muscatine has several major industrial users, including a Kraft Heinz food processing facility. The majority of the biological loading to the Muscatine treatment plant is from industrial users.

Although the Muscatine WPCF received a significant amount of industrial waste, the total waste loading has decreased significantly since the plant was originally constructed. The evaluation of the Muscatine WPCF recommended retire the fixed media filter from active service as it was no longer needed based on the biological loading to the treatment plant and upgrade and improve the mixing in the aeration basins in order to improve the biological treatment process. Due to its discharge to the Mississippi river the Muscatine treatment plant is not required to achieve nitrification, the evaluation focused on optimizing the activated sludge process for the removal of BOD<sub>5</sub>.

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## REFERENCES

In this section of the Statement of Qualifications, Veenstra & Kimm, Inc. is providing references for ongoing and recently completed projects related to wastewater treatment facilities.

### City of Carroll

Randy Krauel, Public Works Director  
627 N Adams Street  
Carroll, Iowa 51401  
(712)792-1000  
r.krauel@ci.carroll.ia.us

### City of Clinton

Robert Milroy, RWRP Director  
Clinton Regional Wastewater Reclamation Facility  
4025 South 30th Street  
Clinton, Iowa 52732  
(563) 243-4064  
bobmilroy@cityofclintoniowa.us

### City of Osceola

Ty Wheeler, City Administrator  
115 North Fillmore  
P.O. Box 465  
Osceola, Iowa 50213-0465  
(641) 342-2377  
twheeler@osceolaia.net

### City of Creston

Mike Taylor, City Administrator  
116 West Adams Street  
P.O. Box 449  
Creston, Iowa 50801-0449  
(641) 782-2000 ext. 202  
mike@crestoniowa.org

### City of Grinnell

Jan B. Anderson, Water Resources Director  
Municipal Building  
520 Fourth Street  
Grinnell, Iowa 50112  
(641)236-2600  
waterresources@grinnelliowa.gov

### City of Postville

Chris Hackman, Wastewater Superintendent  
147 N. Lawler Street  
P.O. Box 242  
Postville, Iowa 52162  
(563) 864-7454  
postwastewater@neitel.net

### City of Coralville

Scott Larson, City Engineer  
1512 7th Street  
P.O. Box 5127  
Coralville, Iowa 52241  
(319) 248-1720  
slarson@coralville.org

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## PROJECT SCHEDULE

Veenstra & Kimm, Inc. understands the City of David City has a short timeline in which to complete its evaluation study and provide the findings of the study to the Environmental Protection Agency (EPA). It is our understanding the City needs to report to EPA by September 3 it is working on an updated plan. Veenstra & Kimm, Inc. understands it is in the City's best interest to complete the evaluation report as soon as practical after September 3.

Veenstra & Kimm, Inc. also understand the City's desire to complete the evaluation of the headworks building as soon as practical given the electrical incident that occurred earlier this summer.

As described in our project approach, the evaluation of the ammonia nitrogen issue and the evaluation of the headworks can take place simultaneously as they are not directly related. This allows for a shorter schedule for completion of the evaluation and report.

Ideally the evaluation of the treatment plant would take 60 to 90 days to complete. However, Veenstra & Kimm, Inc. is generally familiar with both of these issues, and this allows us to expedite the work on the evaluation and to complete the evaluation and report in a shorter time frame.

Veenstra & Kimm, Inc.'s proposed schedule for the feasibility study is as follows:

Draft Report- 35 days after notice to proceed

Final Report – 45 days after notice to proceed

Veenstra & Kimm, Inc. would note there are two factors beyond its control that could impact the present schedule. First, there likely be a limited amount of laboratory testing that may be required. Completing the study will require the additional laboratory work to be completed by the City within the project schedule. Most of the laboratory work is already in progress based on a separate evaluation of the wastewater treatment facility. However, there may be a few additional tests, such as alkalinity, may be required.

Second, the 10-day period between the draft and final report is intended to allow the City 5-days to review and provide comments on the draft report and 5-days for Veenstra & Kimm, Inc. to incorporate the comments and complete the feasibility study. If there is a delay in receiving the comments on the draft report, that delay could affect the completion of the project.



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## PROJECT APPROACH

Although the request for a qualification did not include a request for project approach, Veenstra & Kimm, Inc. believes it is important to provide our thoughts regarding the project approach. Veenstra & Kimm, Inc. believes a narrative description of the project approach assists the City in evaluating whether it believe Veenstra & Kimm, Inc. has the appropriate understanding of the issues to be addressed and the approach to the study.

Based on our understanding of the David City Wastewater Treatment Plant it appears there are three fundamental issues that need to be addressed as part of the feasibility study. Although the issues may be interrelated, they are distinct as it relates to the evaluation and likely outcome of the study.

The first issue, is the performance of the treatment plant relative to achieving the permit limits for ammonia nitrogen. The existing treatment plant is Sequencing Batch Reactor (SBR) activated sludge plant. Typically, the SBR process can provide a degree of treatment that meets the effluent limits of BOD<sub>5</sub> and ammonia nitrogen. The SBR process is not ideal for reducing total nitrogen and total phosphorus. However, the primary area of concern is ammonia nitrogen levels in the effluent and not the total nitrogen level.

Elevated ammonia nitrogen levels in the plant effluent are generally associated with the lack of biological nitrification. Within the treatment plant the reduction of ammonia can occur through both biological uptake of nitrogen and through biological nitrification. The biological uptake of nitrogen is directly tied to the growth of BOD<sub>5</sub> removing organisms. The organisms that use the BOD<sub>5</sub> as a food source also require a certain amount of nitrogen. That amount of nitrogen is converted to biomass and is removed from the effluent by physical transfer to the sludge component.

Beyond the biological uptake, the reduction of ammonia nitrogen occurs through biological nitrification using two strains of bacteria. The nitrifying bacteria are a slower growing organism than the organisms that remove BOD<sub>5</sub>. The nitrifying bacteria have a relatively high requirement for alkalinity, also require carbon and higher demand for oxygen.

For a treatment plant that achieves a very high removal of BOD<sub>5</sub> but does not remove a significant amount of ammonia nitrogen through the biological nitrification process the evaluation must focus on what is limiting the biological nitrification. This involves an evaluation of both the nitrogen loading and the components of the wastewater itself.

Some of the factors that can adversely affect nitrification include the following:

- Chemical or physical toxicity
- Lack of alkalinity
- Lack of oxygen
- Lack of an adequate carbon source
- Biological overloading

To evaluate the nitrification process, it is necessary to look at each of these potential causes for the lack of biological nitrification to determine which parameters are adversely impacting the nitrification performance. Once the cause of the problem has been identified a solution to that problem can be developed. For example, biological nitrification requires a relatively high alkalinity. If the source water does not have sufficient alkalinity the nitrification process cannot be completed as the organisms do not have sufficient alkalinity to support their population growth. The solution to this type of problem is the addition of alkalinity in order to allow biological nitrification.

The evaluation of the lack of nitrification and the resulting high effluent ammonia levels is primarily a biological process evaluation. The physical facilities at the treatment plant appear to be in good condition. The problem appears to be related to the conditions that affect biological nitrification.



The second component of the evaluation deals with the headworks. The headworks at the treatment plant has experienced physical deterioration and creates an undesirable operating environment. The condition of the headworks building creates significant life safety concerns with respect to the electrical system and the poor ventilation. These systems are not in compliance with current requirements for safety. The configuration of the headworks impacts the distribution of flow throughout the treatment plant.

Although the headworks has an important component of the treatment plant, it has minimal impact on the biological treatment process and is not likely to be a major factor in the failure of the treatment plant to achieve appropriate biological nitrification. Unlike the nitrification that involves a biological process evaluation, the headworks evaluation focuses on the physical attributes of the headworks.

The physical attributes include how the flow is distributed, the preliminary treatment process, including grit and screening, and the physical characteristics of the facility, including adequate ventilation, an intrinsically safe electrical system and safety requirements. Veenstra & Kimm, Inc.'s initial assessment is the headworks has probably reached the end of its useful life and is in need of replacement from a physical perspective.

A third component of the evaluation will look at the recently constructed anaerobic lagoon. The evaluation will look at the function of the anaerobic lagoon in relationship to the overall treatment process. The lagoon is intended to address the loading from the egg breaking industry, but in its initial operation did not appear to fully meet its intended purpose. The evaluation will look at whether the anaerobic lagoon, that is currently out of service, should be placed back in service and if the adjustments to the treatment process should be made with or without the lagoon in service.

The evaluation will look at the physical condition of the lagoon, especially how flow is handled through the lagoon. The analysis will look at whether all flow should be routed through the lagoon or if a wet weather/split flow concept would be beneficial.

If the City were to resume use of its anaerobic lagoon some changes at the headworks would be beneficial to properly manage and distribute the flow. Currently the anaerobic lagoon must either receive none of the flow or all of the flow. The hydraulic capacity of the anaerobic lagoon was not designed in a manner that readily accommodates elevated flow due to the restrictions in the piping hydraulics. Any upgrade or replacement of the headworks needs to address both the flow handling characteristics of this part of the treatment plant as well as addressing safety and performance of the headworks and preliminary treatment process itself.

The evaluation of SBR process for nitrification, the evaluation of the headworks for proper flow handling and physical conditions, and a review of the anaerobic lagoon are important elements of the feasibility study. Because the two major tasks involving the ammonia removal and the headworks are not that intrinsically related with respect to underlying issues, the evaluations can occur simultaneously. This allows for a more efficient and a shorter timeline for the project.

Veenstra & Kimm, Inc.'s approach is to work closely with the City throughout the evaluation and to incorporate the initial findings in a draft report. The draft report would be reviewed with the City and appropriate modification completed for the final evaluation study.

RESPONSE TO REQUEST  
FOR QUALIFICATIONS FOR

# WASTEWATER TREATMENT PLANT EVALUATION

CITY OF DAVID CITY  
AUGUST 18, 2021



**JEO CONSULTING  
GROUP, INC.**

1909 Dakota Avenue  
South Sioux City, NE 68776

[jeo.com](http://jeo.com)

*Ethan Joy, PE, LEED AP*  
Project Manager

px: 402.494.7019 | m: 402.2417409 | f: 402.494.1702 | e: [ejoy@jeo.com](mailto:ejoy@jeo.com)

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August 18, 2021

City of David City  
Mr. Clayton Keller, City Administrator  
557 N. 4<sup>th</sup> Street  
David City, Nebraska 68632

**RE: Qualifications for Wastewater Treatment Plant Evaluation | David City, NE**

Dear Mr. Keller and Selection Committee Members:

**COLLABORATIVE, EFFECTIVE, AND FLEXIBLE.** These are three statements you don't typically see accompanying major infrastructure improvement projects. With the selection of JEO, we will draw upon our expertise, our 'learn and teach' culture, and years of experience serving municipal clients. We will provide you a service in which we handle the details and complicated processes, and in turn, provide you with an experience that is collaborative, effective, and flexible. Our commitment is to always prioritize your needs and listen carefully to your concerns, resulting in successful projects. Key components of our qualifications include:

- **Communication.** At JEO, we believe in honest, proactive, and frequent communication with our clients. This is key to ensuring that all parties involved are fully informed of any issues that may arise, which allows for timely collaboration to address them. Ethan Joy will be your main point of contact and lead the city through the design process. Given his lead role on the water treatment plant upgrades, the city will have a "one-stop shop" for information and benefit from the communication efficiencies.
- **Local Wastewater Expertise.** Our team has the local presence and technical skills necessary to handle your wastewater treatment and headworks building needs. Our eight office locations throughout Nebraska, coupled with a team of 30 water/wastewater engineers and technicians, will result in responsive services to David City. We have already spent some time with city staff discussing the issues facing the wastewater system. Our time spent listening and learning has already helped us understand the city's needs, and we can confidently say we are already forming ideas and strategies for improvements.
- **Funding Assistance.** JEO has worked with a wide variety of funding programs, including those that may specifically be appropriate for your project. Our team's engineers and funding specialist have partnered with funding agencies on several past projects to successfully obtain grant and loan funding to help Nebraska communities defray project costs. Just as Ethan helped guide the city through the WWAC process and secure over \$1,000,000 of loan forgiveness for the water treatment plant, he is ready to do the same for this project.

We know you have many options when it comes to engineering services, but we are confident that the way we conduct our business is what sets us apart. We encourage you to review our qualifications, speak with our references, and ask us any questions you may have. Please feel free to contact Ethan at 402.241.7409 or Blake at 402.934.3680 if you have any questions or if you need additional information.

Sincerely,

Handwritten signature of Ethan Joy in blue ink.

ETHAN JOY, PE, LEED AP  
*Project Manager*

Handwritten signature of Blake Birkel in blue ink.

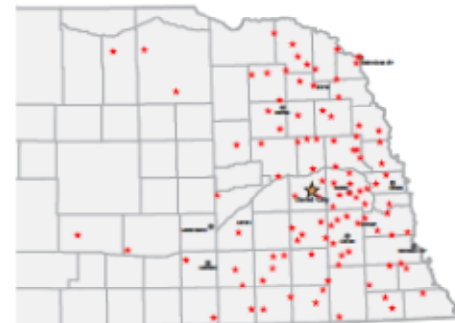
BLAKE BIRKEL, PE  
*Department Leader*

## RECENT WASTEWATER TREATMENT FACILITY EXPERIENCE

When it comes to evaluation and design, firms often become enamored with the implementation of one specific type of treatment facility. At JEO, we believe that choice should only be made after careful consideration of your community's unique wants and needs. **We pair our flexible project process with cutting-edge industry technology to best meet your needs.**

For over 84 years, JEO has delivered wastewater facility planning, design, construction, and commissioning of Nebraska facilities. The story this map and matrix tells is much more than just dots. They graphically tell the story of our history and how we strive to create client relationships that last decades.

Major JEO WWTF Projects in Nebraska



★ Major JEO WWTF Project ● JEO Office Locations

### JEO WASTEWATER TREATMENT CLIENTS

PROJECT COMPONENTS	Albion, NE	Aurubon, IA	Aurora, NE	Chambers, NE	Cozad, NE	Dakota City, NE	Geneva, NE	Hebron, NE	Jansen, NE	Neola, IA	Oakland, NE	Osmond, NE	Plainview, NE	Ponca, NE	Shenandoah, IA*	South Sioux City, NE**	Wahoo, NE	Waverly, NE	Wayne, NE	Wislar, NE	
Sewer Collection/ Outfall Improvement	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X
Flow Measurement	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Grit Removal	X	X				X									X			X	X		
Fine Screening	X	X	X		X	X		X		X	X		X	X	X		X	X	X	X	X
Lift Station	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lagoon Cells				X				X				X	X		X	X				X	
Oxidation Basins/Clarifiers	X	X	X											X			X				
Sequencing Batch Reactor (SBR)					X	X	X				X					X					X
UV Disinfection	X	X	X			X				X	X		X	X	X	X	X	X	X	X	X
Extended Aeration										X					X						
Multi-Stage Fixed Film																					X
Aerobic Sludge Digestion	X	X	X		X	X	X			X	X			X	X	X	X	X	X	X	X

\*This project is currently in design.

\*\*JEO provided professional engineering services as a subconsultant. This project is currently under construction.

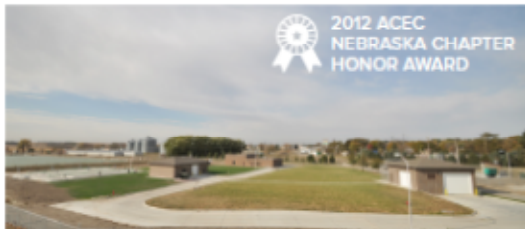


### **DAKOTA CITY, NEBRASKA WASTEWATER TREATMENT FACILITY**

The most impactful engineering projects use proven solutions to benefit entire communities. Hoping to improve conditions for their whole city, Dakota City hired JEO in 2016 to study their existing wastewater treatment facility. The existing facility was facing continuous operational and maintenance issues, reaching the end of its useful life after nearly 40 years of service. Additionally, it sat right next to a residential area. Residents often experienced the plant's unpleasant odor and neighborhood eyesore.



JEO located a new site south of town, ideal for the upgraded facility. The new Sequencing Batch Reactor (SBR) treatment facility is complete with a pump station, solids screening, grit removal, SBR basins, UV disinfection, biosolids treatment, and a lab space. The WWTF was designed for easy expansion to double its capacity for community growth. The forward thinking design included a layout with hydraulic considerations necessary to add future treatment basins for advanced nitrogen and phosphorus removal, should future permits require it. Operator flexibility and expansion possibilities were the cornerstone of the design. The new system is more efficient and makes the treatment process easier and safer for operations staff.



### **WAYNE, NEBRASKA WASTEWATER TREATMENT FACILITY**

JEO was hired to evaluate the existing Wayne Wastewater Treatment Facility. The result of this evaluation concluded that the current treatment system was overloaded organically and would continue to have problems meeting permit limits if left in its present condition. In order to solve this problem, JEO determined that an Aquarius Treatment System would significantly reduce energy consumption and the amount of sludge, consequently, helping to meet quality and health regulations. Since the initial project, subsequent phases have added aerobic digesters, a biosolids press system, and formal abandonment of the old sludge storage lagoon system to comply with EPA requirements.




### **WAVERLY, NEBRASKA WASTEWATER TREATMENT FACILITY**

JEO completed a study of the Waverly Wastewater System, identifying several alternatives for expansion. Through much deliberation, the city elected to construct a new mechanical treatment facility while utilizing certain components of the existing system. The new facility consists of a new dry well/wet well lift station with fine screening to accommodate a new interceptor sewer from the community, grit removal, jet aeration oxidation ditch, final clarifiers, ultraviolet disinfection, aerobic sludge digestion, sludge dewatering facility, and all the necessary components for a complete system. The design flow for this treatment facility is 1.0 million gallons per day. The lift station was designed to handle 2.0 million gallons per day due to the possible expansion of this WWTF.



**ETHAN JOY**  
PE, LEED AP



 ejoy@jeo.com

 South Sioux City, NE

Ethan has 20 years of experience designing and managing projects for municipalities, state agencies, and private clients. He is an experienced designer with a strong technical background. Ethan will bring his trained technical skills and local relationship with city staff to manage and lead the technical design team through the overall planning and design process. His local experience with David City is important, as his clear understanding of the city's wastewater and water system will allow him to efficiently guide the project team and city staff in the selection of technical components of the wastewater evaluation.

**EDUCATION:**

B.S., Biological Systems Engineering  
*University of Nebraska*

**REGISTRATIONS:**

Professional Engineer

- Nebraska (E-12024)
- Kansas (27788)
- Iowa (18282)
- South Dakota (13284)
- Wisconsin (387986)
- Minnesota (46671)

LEED Accredited Professional

**TENURE:**

Industry: 20 Years  
JEO: 20 Years

**PROJECT EXPERIENCE:**

**City of Dakota City, Wastewater Treatment Facility Improvements, Dakota City, NE.** Project Manager.

**City of South Sioux City, Wastewater Treatment Facility Improvements, South Sioux City, NE.** Project Manager and QA/QC for HDR.

**City of Albion, Wastewater Treatment Facility Improvements, Albion, NE.** Project Engineer.

**City of Wayne, Wastewater Treatment Facility, Wayne, NE.** Design Engineer.

**City of Audubon, Wastewater Treatment Facility and Collection System Improvements, Audubon, IA.** Design Engineer.

**City of Onawa, Wastewater Facility Plan Report, Onawa, IA.** Project Engineer.

**City of Farragut, Wastewater Facility Plan Report, Farragut, IA.** QA/QC.

**City of Essex, Wastewater Facility Plan Report, Essex, IA.** QA/QC.

**City of Aurora, Wastewater Treatment Facility Improvements, Aurora, NE.** Project Engineer.

**City of Wahoo, Wastewater Treatment Facility Expansion, Wahoo, NE.** Construction Manager.

**City of South Sioux City, Influent Headworks Improvements River Lift Station, South Sioux City, NE.** Project Manager.

**City of Schuyler, North Lift Station, Schuyler, NE.** QA/QC.

**City of Sergeant Bluff, West Ridge Road Lift Station, Sergeant Bluff, IA.** Project Manager.

**City of South Sioux City, BPI Lift Station Improvements, South Sioux City, NE.** Project Manager and QA/QC.

**City of Shenandoah, Wastewater Treatment Facility Study, Shenandoah, IA.** QA/QC.

**Village of Table Rock, Wastewater Study, Table Rock, NE.** Project Engineer.

**City of Hooper, Wastewater Lagoons and Lift Station Improvements, Hooper, NE.** Project Engineer.

**City of Pawnee City, Wastewater Facility Plan Report, Pawnee City, NE.** Project Engineer.

## REFERENCES

### **CITY OF DAKOTA CITY**

**Stacey Janssen**  
Utility Superintendent  
p. 402.987.3448

### **CITY OF ONAWA**

**John Cassady**  
Public Works Director  
p. 712.420.0941

### **CITY OF SOUTH SIOUX CITY**

**Lance Hedquist**  
City Administrator  
p. 712.204.2995/cell

### **CITY OF BLAIR**

**Al Schoemaker**  
Public Works Director  
p. 402.426.4191

### **CITY OF ALBION**

**Andy Devine**  
City Administrator  
p. 402.741.2672/cell

### **CITY OF SCHUYLER**

**Jim McGowen**  
Utility Superintendent  
p. 402.615.0499/cell



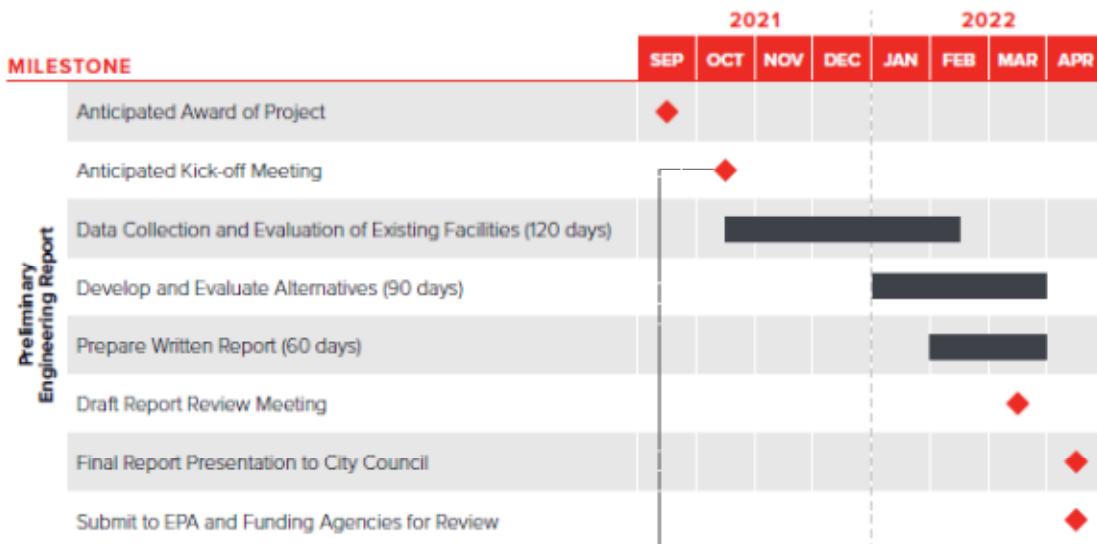
“The City of Dakota City has worked with JEO since 2010 and in that time, I and other city council members and city staff have received a level of service, expertise, and professionalism that far exceeded our expectations... Ethan is very thorough, always looking for different solutions and opportunities. One of the greatest assets is that he is very accessible and easy to work with.”

Jerry Yacevich, Mayor  
City of Dakota City



## PROJECT SCHEDULE

JEO has assembled a team of experts with a proven track record of executing projects on time and within budget. Below are typical task items for preparing a preliminary engineering report. A more detailed scope of services and applicable schedule will be developed through further conversations with city council and city staff during agreement negotiations. We understand another driver of this project is compliance with the EPA Consent Order. JEO's proposed schedule also keeps this in mind and we will work with you and the EPA to ensure the requirements of the EPA are met.



### COMMUNICATION IS KEY

*Prior to commencing any work, a kick-off meeting with city staff will be held to understand expectations of the city. We want to know what concerns you, what makes operations difficult. It is through this learning process that we can better serve you.*



We know the preparation of a preliminary engineering report (PER) is just a start. JEO will work closely with city staff to help implement the PER recommendations by assisting with funding applications, preparing design plans/specifications, obtaining permits, soliciting bids from qualified contractors, and ultimately, administering the construction contract through completion. Our goal for the city is to create a comprehensive wastewater solution that meets the needs of the city for a long time to come and minimizes the "headaches" and operational issues you have now.



Council member Jessica Miller made a motion to pass and adopt Certification of City Street Superintendent and Resolution No. 13-2021 signing of the Year-End Certification of City Street Form 2021. Council Member John Vandenberg seconded the motion. The motion carried. Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1

**Do not recreate or revise the pages of this document**, as revisions and recreations will not be accepted.  
 Failure to **return both pages of the original document** by the filing deadline (October 31) may result in the suspension of Highway Allocation funds until the documents are filed.

**RESOLUTION**  
**SIGNING OF THE**  
**MUNICIPAL ANNUAL CERTIFICATION OF PROGRAM COMPLIANCE**  
**2021**

Resolution No. 13-2021

**Whereas:** State of Nebraska Statutes, sections 39-2115, 39-2119, 39-2120, 39-2121, and 39-2520(2), requires an annual certification of program compliance to the Nebraska Board of Public Roads Classifications and Standards; and

**Whereas:** State of Nebraska Statute, section 39-2120 also requires that the annual certification of program compliance by each municipality shall be signed by the Mayor or Village Board Chairperson and shall include the resolution of the governing body of the municipality authorizing the signing of the certification.

**Be it resolved** that the Mayor  Village Board Chairperson  of David City  
(Check one box) (Print name of municipality)  
 is hereby authorized to sign the Municipal Annual Certification of Program Compliance.

Adopted this 25th day of August, 2021 at David City Nebraska.  
(Month)

City Council/Village Board Members

<u>Council President Tom Kobus</u>	<u>Council Member Kevin Woita</u>
<u>Council Member Jessica Miller</u>	_____
<u>Council Member John Vandenberg</u>	_____
<u>Council Member Pat Meysenburg</u>	_____
<u>Council Member Bruce Meysenburg</u>	_____

City Council/Village Board Member \_\_\_\_\_  
 Moved the adoption of said resolution  
 Member \_\_\_\_\_ Seconded the Motion  
 Roll Call: \_\_\_ Yes \_\_\_ No \_\_\_ Abstained \_\_\_ Absent  
 Resolution adopted, signed and billed as adopted.

Attest:

\_\_\_\_\_  
(Signature of Clerk)

**Do not recreate or revise the pages of this document**, as revisions and recreations will not be accepted. Failure to **return both pages of the original document** by the filing deadline (October 31) may result in the suspension of Highway Allocation funds until the documents are filed.

**MUNICIPAL  
ANNUAL CERTIFICATION OF PROGRAM COMPLIANCE  
TO  
NEBRASKA BOARD OF PUBLIC ROADS CLASSIFICATIONS  
AND STANDARDS  
2021**

In compliance with the provisions of the State of Nebraska Statutes, sections 39-2115, 39-2119, 39-2120, 39-2121, and 39-2520(2), requiring annual certification of program compliance to the Board of Public Roads

Classifications and Standards, the City  Village  of David City  
(Check one box) (Print name of municipality)

hereby certifies that it:

- ✓ has developed, adopted, and included in its public records the plans, programs, or standards required by sections 39-2115 and 39-2119;
- ✓ meets the plans, programs, or standards of design, construction, and maintenance for its highways, roads, or streets;
- ✓ expends all tax revenue for highway, road, or street purposes in accordance with approved plans, programs, or standards, including county and municipal tax revenue as well as highway-user revenue allocations;
- ✓ uses a system of revenue and costs accounting which clearly includes a comparison of receipts and expenditures for approved budgets, plans, programs, and standards;
- ✓ uses a system of budgeting which reflects uses and sources of funds in terms of plans, programs, or standards and accomplishments;
- ✓ uses an accounting system including an inventory of machinery, equipment, and supplies;
- ✓ uses an accounting system that tracks equipment operation costs;
- ✓ has included in its public records the information required under subsection (2) of section 39-2520; and
- ✓ **has included in its public records a copy of this certification and the resolution of the governing body authorizing the signing of this certification by the Mayor or Village Board Chairperson.**



\_\_\_\_\_  
*Signature of Mayor  Village Board Chairperson  (Required)* 8/25/21  
*(Date)*

\_\_\_\_\_  
*Signature of City Street Superintendent (Optional)* \_\_\_\_\_  
*(Date)*

**Return the completed original signing resolution and annual certification of program compliance by October 31, 2021 to:**

Nebraska Board of Public Roads Classifications and Standards  
PO Box 94759  
Lincoln NE 68509

City Administrator Clayton Keller stated that he and City Clerk Tami Comte met with Sheriff Tom Dion, Deputy Sheriff Drozd, and County Attorney Julie Reiter regarding animal violations and a fee structure for that.

Council member Bruce Meysenburg asked what the fines were currently.

City Clerk Tami Comte explained that the Ordinance currently states that the fine is up to \$500 per occurrence and the County Attorney would like the fines spelled out.

Council member Jessica Miller made a motion to pass and adopt Resolution No. 14-2021 updating fees and charges. Council Member Bruce Meysenburg seconded the motion. The motion carried.

Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
 Yea: 5, Nay: 0, Absent: 1

**RESOLUTION NO. 14-2021**

BE IT RESOLVED by the Mayor and City Council of the City of David City, Nebraska, that the following fees and charges be and hereby are established and shall be effective upon passage:

1-505(I)	Certified copies; fee .....	25/copy
2-514	Arborist; license fee .....	\$25.00
3-203	Dogs; license fee	\$10.00 if dog is spayed or neutered \$20.00 if dog is not spayed or neutered
3-221(C)	Dogs; impoundment;	1 <sup>st</sup> - \$5.00, 2 <sup>nd</sup> - \$10.00, 3 <sup>rd</sup> - \$15.00
3-302	Chickens; keeping and raising permit fee .....	\$10.00
3-309	Exotic animal; first violation	\$25 fine; forfeiture of animal
3-309	Exotic animal; second violation	\$50 fine; forfeiture of animal
3-309	Exotic animal; third violation	\$75 fine; forfeiture of animal
3-309	Exotic animal; fourth violation	\$100 fine; forfeiture of animal
3-601	Animal Violation; fines	1 <sup>st</sup> offense \$25.00 2 <sup>nd</sup> offense \$50.00 3 <sup>rd</sup> offense \$100.00 4 <sup>th</sup> offense \$500.00
4-217(B)	Illegally parked; towing	\$75.00 min. charge plus sales tax
4-217(B)	Illegally parked; storage fee	\$25.00 minimum charge plus \$25.00 for each additional day
4-506(B)	ATV and UTV application fee.....	\$50.00
4-512(A)	Golf car application fee.....	\$10.00
5-201	Itinerant sales; permit fee.....	\$25.00 per 7 days
5-301	Amusement Devices, per electronic machine, etc.....	\$25.00
	Pool Tables, per table, per year.....	\$15.00
5-402(B)	Bingo; permit fee.....	\$10.00
5-402(C)	Bingo; permit renewal.....	\$10.00
6-204	Street closing; permit fee.....	\$10.00
7-503(F)	Utilities; solid waste; collector's license fee (annual) .....	\$25.00
8-207	Burn barrel permit; fee .....	\$20.00

8-407 Fireworks, per year ..... \$250.00

DATED this 25<sup>th</sup> day of August, 2021.

CITY OF DAVID CITY, NEBRASKA

\_\_\_\_\_  
Council President Tom Kobus

ATTEST:

\_\_\_\_\_  
City Clerk Tami Comte

City Administrator Clayton Keller stated that the Butler County Historical Society would like to sell the old scoreboard as a fundraiser. City Administrator Clayton Keller said, "They went and looked at it and they were trying to decide whether they wanted to keep it and put it in their museum, and they decided that it was too big and so they want to use it as a fundraising opportunity."

Council member Jessica Miller made a motion to pass and adopt Resolution No. 15-2021 allowing the old scoreboard to be donated to the Butler County Historical Society. Council Member Bruce Meysenburg seconded the motion. The motion carried.

Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1

**RESOLUTION NO. 15-2021**

WHEREAS, the City of David City, Butler County, Nebraska, is the owner of the following described personal property, to wit:

One 1950's scoreboard (previously stored in the auditorium)

and,

WHEREAS, the City of David City, Nebraska, does not have a present need to retain ownership of said above described personal property, and,

WHEREAS, the City of David City, Nebraska, deems it in the best interests of the citizens of the City of David City, Nebraska, that said personal property be disposed of, as set forth herein,

WHEREAS, the City of David City, Nebraska, has determined that the fair market value of the above described personal property is less than \$5,000.00,

NOW THEREFORE, BE IT RESOLVED BY THE CITY OF DAVID CITY, NEBRASKA, AS FOLLOWS:

1. That the above described personal property be donated to the Butler County Historical Society, as advertised in a Notice of Donation of Personal Property posted in three public places in the City of David City, Nebraska, immediately after the passage of said Resolution and not later than seven (7) days prior to the donation of said item, as shall be evidenced by a Notice of Posting of the City of David City Clerk, and,

2. That pursuant to Neb. Rev. Stat. §17-503.01, confirmation of the sale of said personal property by an ordinance is not required.

PASSED AND APPROVED this 25<sup>th</sup> day of August, 2021.

CITY OF DAVID CITY, NEBRASKA

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Council President Tom Kobus

ATTEST:

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City Clerk Tami Comte

Council President Tom Kobus stated that the next item on the agenda was consideration of repairs to the water pump in the Vac-con truck.

Interim Water Supervisor Aaron Gustin introduced himself and said, "We spoke with MacQueen Equipment and the quote that you have, their first attempt they are going to try to rebuild the current water pump that is on there with a rebuild kit, but if it's too far damaged, then it would be a total replacement. The estimate for the rebuild is significantly less, it's closer to the eight-thousand-dollar mark, whereas the total replacement and labor is closer to seventeen thousand. Last year we created the line item for an emergency contingency fund and we still have yet to even touch that for the water system. This year there is twenty-five-thousand dollars still in that. Line item number 24-2543 is what I recommend we use to fix this item."

Council President Tom Kobus said, "What kind of warranty is there?"

Interim Water Supervisor Aaron Gustin said, "I am unsure."

Council President Tom Kobus said, "Is this a thirty-gallon pump?"

Interim Water Supervisor Aaron Gustin said, "I can get you that information."

Council member Kevin Woita said, "Was it just worn out or did it break or what?"

Interim Water Supervisor Aaron Gustin said, "So, what the gentleman from MacQueen said was that for the range of uses that we use it for—we use it for everything from vacuuming out sanitary sewer manholes that have flooded, the car washes, slurring up for hydro-excavation – this particular unit is not designed to handle all the places that we use it. So, it is under quite a bit of pressure. He did give us some information on how to prevent the pump from going bad in the future. He understands that a new vac truck is not an option right now for us, so we need to use what we have and try to baby it a little more, so to speak. He gave us some pointers on that but that is the cause. To give an example, the water pump going bad, causing hydraulics to back up, those get back into the vacuum, the vacuum and your air tanks are completely shot. They have to blow all of those out and rerun those just to fix the water pump and that's because of the stress that we put on it."

Council President Tom Kobus said, "Is the rest of the unit in pretty good shape, though? The engine, the transmission and all of that?"

Interim Water Supervisor Aaron Gustin said, "Yes, we take it to Forney's for repairs here and there. He does what he can with it. Your power train and your drive train are relatively good. The seals on the tank, the unit requires a massive amount of maintenance. It was inspected two years ago, obviously it will get inspected again. We put it through some stress."

Council President Tom Kobus said, "But a tank can be repaired."

Interim Water Supervisor Aaron Gustin said, "The tank can be repaired. The seals can be repaired. Unfortunately, repairs on a piece of equipment like this are extremely expensive."

Council member Jessica Miller asked how old this piece of equipment was.

Interim Water Supervisor Aaron Gustin said, "I do not know."

City Clerk Tami Comte said, "I have it on the title in the safe, but I think it's maybe ten or fifteen years old."

Interim Water Supervisor Aaron Gustin said, "It was the demo unit, so maybe they got a discount. It still has the demo unit sticker in the windshield."

Council member Bruce Meysenburg made a motion to approve MacQueen Equipment to repair the Vac-con truck for the wastewater department as long as the warranty information is determined. Council Member Kevin Woita seconded the motion. The motion carried.

Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1

Council President Tom Kobus stated that the next item on the agenda was consideration of hiring Butler County Concrete & Design to install a concrete waterway in the easement between 14<sup>th</sup> and 15<sup>th</sup> Streets in Block 2 of the Kozi Addition and splitting the cost between the residents that abut the project, i.e., Mr & Mrs. Chris Kozisek, Mr. & Mrs. Larry Heins, Mr. & Mrs. Chad Toelle, and Mr. & Mrs. Brian Behrns.

City Administrator Clayton Keller said, "These four neighbors' back yards all face each other, and there's an easement through their back yards since we have an electric utility through there. I don't know what year it was that...."

Jeanette Heins said, "It was 2007 when the problem started."

City Administrator Clayton Keller said, "So, a letter was sent in 2008 to Pat Meysenburg and his wife at that time, who owned the house on the east side. They had done some dirt work that changed the flow of the storm water drainage, and that's what started a lot of the issues. So, the City sent that letter to the Meysenburg's and said because of what you did, putting our utility transformers at risk, you will be held responsible for any damages. Early last month we were approached by one of these residents saying, 'Can the City do something about this? We're tired of digging out sand and gravel because it's coming off of the streets.' They had installed a concrete waterway that takes the water from the street culvert to the end of their property line. When they did that, the neighbors to the south of them didn't want to extend the concrete waterway through their back yards to get to the culvert that Meysenburg's had installed. At the end of their waterway is where the sand and gravel starts to bunch up and create, essentially, a dam and that's right where the transformer is. It sits on the ground. When the transformer was initially installed, I talked to Pat Hoeft, our Electric Supervisor, and he said that it was about nine inches above grade. It now sits about three inches above grade. That's why it has the potential to be flooded out and I don't want to see that happen. Technically, as a City, we don't need to do anything here, but I would like to avoid that headache down the road. Brian Behrns is willing to split the cost of hiring Butler County Concrete & Design to continue the concrete waterway. At the beginning of all this, the Toelle's were willing to split costs but they have since changed their mind and said that they don't want to. We can make them be a part of this project if the Council would like to. I've also requested that the Heins' and the Koziseks' be involved because I believe that there wouldn't be a flooding issue if their concrete waterway wasn't dumping sand and gravel right next to our transformer, making a dam and making it flood right there. So, in talking to the mayor since he knew that he wasn't going to be here tonight, he said one of our options is to tear out the concrete waterway and just build a dirt berm around the transformer."

Council President Tom Kobus said, "That's not going to cut it. That will wash that right out."

Council member Bruce Meysenburg said, "I've got a question. We've got an easement?"

City Administrator Clayton Keller said, "We do."

Council member Bruce Meysenburg said, "The easement goes through the place that is not concrete right now?"

City Administrator Clayton Keller said, "Correct."

Council member Bruce Meysenburg said, "So, in the back of my mind, I guess why do these people have to pay for it?"

City Administrator Clayton Keller said, "They are responsible for maintenance of the



easement. Anything that they do or don't do is on them."

Council member Jessica Miller said, "It sounds like stuff was done without...originally it was put in correctly so it was above grade, and then the owners, at that time, did work that they shouldn't have done, that took away what the City did to prevent something. That's what I'm getting out of it."

City Administrator Clayton Keller said, "Right."

Council member Kevin Woita said, "Way back when you did that, was there a problem right away with the flooding or was it until the culvert got put in that it started flooding, because with all the landscaping that got put in, there's a lot of grass there. When did the problem start?"

Jeanette Heins introduced herself and said, "I have some paperwork if you'd like to look at it."

Jeanette Heins handed out pictures to the Council members. A copy is inserted following the motion.

Jeanette Heins said, "I guess the real problem is the water getting into the transformer. The other night when we had five inches of rain, the culvert was totally covered, so you know some had to get inside the transformer. I guess the question is who is going to pay for it? Well, you said that we caused the problem when we put that concrete in there. There's a picture on the third page. When the City put the drain in here and also poured thirteen feet of concrete. So, we didn't pour that concrete, we just extended that concrete to the property line. So, I don't see that we were the problem."

Council member Jessica Miller said, "What I'm looking at, correct me if I'm wrong, it looks like it was the people who built to the south then, right?"

Jeanette Heins said, "Right. The culvert and the dirt that was done in there."

Council member Jessica Miller said, "The way that I'm looking at this picture taken is that the problem kind of started when you guys started building and redoing back here."

Jeanette Heins said, "Actually, it started to begin with.... There's a picture (she showed the Council a picture) here, this was all full of water and that was before Pat put that culvert in."

Council member Jessica Miller said, "So, this never drained?"

Jeanette Heins said, "Right and mosquitoes build up in something like that and it's a mess with mud and that's why we put the concrete in. When I say we, Mary Havlovic paid half of it and we paid the other half. I thought that we did the City a favor, but...."

Council member Kevin Woita said, "By doing what you did, you took the water away from your property. It doesn't sit there any more, correct?"

Jeanette Heins said, "Right."

Council member Kevin Woita said, "When it hits the grass it starts to back up?"

Jeanette Heins said, "Yes and all of the sand that washes down from the street ends up there and then the grass grows up in it."

Council President Tom Kobus said, "It's got nowhere to go."

Council member Bruce Meysenburg said, "What is the option of moving the transformer? That would probably be cost prohibitive?"

City Administrator Clayton Keller said, "Yes."

Council member Kevin Woita said, "I talked to Pat and he is pretty sure that the water doesn't get into it. He says that he doesn't like that they would be sitting in water, but the water going past it or if it floods around it, he's sure that there's going to be no damage. That's his opinion. I get where you are at. I'm wondering, is it your opinion that if the concrete was extended that would solve your problem or is it just going to back up the water south of you instead of at you?"

Jeanette Heins said, "No, I think that the concrete all the way down would solve the problem because it would take the sand along with it to the culvert."

Council member Kevin Woita said, "The sand is going to end up in the culvert. The first obstacle it hits, it's going to stop."

Council President Tom Kobus said, "It's a pretty big culvert. Does anybody know the cost of this project?"

Council member Jessica Miller said, "Yes. It's in the packet."

Jeanette Heins said, "I don't feel that we should have to help pay for it."

Council President Tom Kobus said, "Do the rest of you feel the same?"

Chris Kozisek introduced himself and said, "My issue is that the culvert from the street that dumps into the concrete behind our house is probably about a thirty-inch culvert, and it runs down into about an eighteen-inch culvert and it's just not big enough, and then the elevation on that culvert that Pat Meysenburg put in is actually higher on the exit side of the culvert so the water will not run through there correctly. Also, you can't run a big culvert into a little culvert, it just doesn't work out. The other thing is, the silt, when Pat put his house in there was a lot of runoff and silt down into that waterway, and so the elevation was changed because of that. We maintained our nine inches or whatever it is, but the neighbor isn't maintained that way. So, our elevation is correct above the transformer but the neighbor doesn't maintain theirs."

Council President Tom Kobus said, "It sounds like the culvert will have to come out."

Chris Kozisek said, "That end culvert would, yes, and that needs to be redone, lowered and put in correctly."

Council President Tom Kobus said, "Then pour concrete to the culvert."

Council member Kevin Woita said, "I have a question. The culvert that Pat put in, the one that's causing the problems, the small one, from my understanding, that was put in because he was going to put in a garage back there. Does anyone have an objection to tearing that out completely and making the flow correct to the original one that was engineered when Kozisek's did the addition?"

Council President Tom Kobus said, "That's what I'd do."

Chris Kozisek said, "The concrete alone, I don't think, is going to solve that problem without a culvert. The culvert needs to be changed on the south side."

Council member Kevin Woita said, "Does that flow into another one?"

Chris Kozisek said, "No. It just flows through."

Council member Bruce Meysenburg said, "If you took that culvert out, that would probably be a solution, on that end anyway."

Council President Tom Kobus said, "You take the culvert out and run the spillway all the way down."

Chris Kozisek said, "It could be a bigger culvert, but there is a berm there."

Council President Tom Kobus said, "I know what this is and I know what they're going through. I think that we ought to take the culvert out, dig through the berm and put the spillway in. That's just my opinion, but I think that the City ought to pay for it."

Council member Bruce Meysenburg said, "I agree."

Interim Water Supervisor Aaron Gustin said, "Having been on site, I responded to the initial call earlier this year, the elevation at that exit culvert is higher. You can tell just by being on site that that's the case. We might want to check and see the culvert run. It looks to be extremely long. I attempted to find the outlet of that and it was in young, decently wooded growth there, but it probably won't be a small job."

City Administrator Clayton Keller said, "No. It's a difficult job. It took me and Mat Asche about twenty-five minutes to locate the other side of the culvert."

Council President Tom Kobus said, "We've got to dig it out."

Interim Water Supervisor Aaron Gustin said, "Just for the purpose of planning, I wanted to bring that to the Council's attention."

Council President Tom Kobus said, "If we run that water far enough off the property, it should just wash through."

Interim Water Supervisor Aaron Gustin said, "If the culvert is redone with a bigger culvert

and the proper slope and grade. You need to get a transit out there and do the slope and grade.”

Council member Kevin Woita said, “That’s going to be a majority of it.”

City Administrator Clayton Keller said, “You can’t decide to do that tonight. You can only decide on this project that is before you. I can take administrative direction to get a project in the works. Would you like me to explore that option of what it would take to put in a new culvert?”

Council member Jessica Miller said, “I’m hesitant on this. I’m not against you guys. I’m hesitant for the fact that the people who owned the property before it was bought, it seems to me that they kind of thought that they were making it better, but they didn’t make it better and because of their error it is causing more issues. So, that’s where I’m stuck.”

City Administrator Clayton Keller said, “I have a hard time putting the responsibility on the City to fix this issue.”

Council member Bruce Meysenburg said, “So who does it go back to then?”

Council member Jessica Miller said, “That’s kind of where I’m stuck. Right now, if you look at the transformer, in my opinion, looking where that’s at, extend that concrete down and obviously you have to fix the grade and you have to fix the culvert situation. I get that. But where I’m stuck is the cost of it and as the City Council, I totally agree that we should help with this project, but I don’t think that the total responsibility should fall on us. That’s where I’m at.”

Council President Tom Kobus said, “The person that is in the wrong doesn’t even own the property or the house anymore. That would be hard to go back on him. Second of all, by the time we get engineering and go through all of that and lawyers, you’re going to have more than \$2,800. That’s up to the Council.”

Council member Bruce Meysenburg said, “Can we just table it?”

City Administrator Clayton Keller said, “What you would need to do is when Alan tells you to make one motion and don’t second it so it will die. That’s what you should do right here.”

Council member Jessica Miller said, “So, you’ll explore more options?”

City Administrator Clayton Keller said, “Yes.”

Council member Kevin Woita made a motion to approve hiring Butler County Concrete and Design to install a concrete waterway in the easement between 14th and 15th Streets in Block 2 of the Kozi Addition and splitting the cost between the residents that abut the project, i.e., Mr & Mrs. Chris Kozisek, Mr. & Mrs. Larry Heins, Mr. & Mrs. Chad Toelle, and Mr. & Mrs. Brian Behrns. Council Member Tom Kobus seconded the motion. The motion failed.  
Tom Kobus: Nay, Bruce Meysenburg: Nay, Pat Meysenburg: Absent, Jessica Miller: Nay, John Vandenberg: Nay, Kevin Woita: Nay  
Yea: 0, Nay: 5, Absent: 1



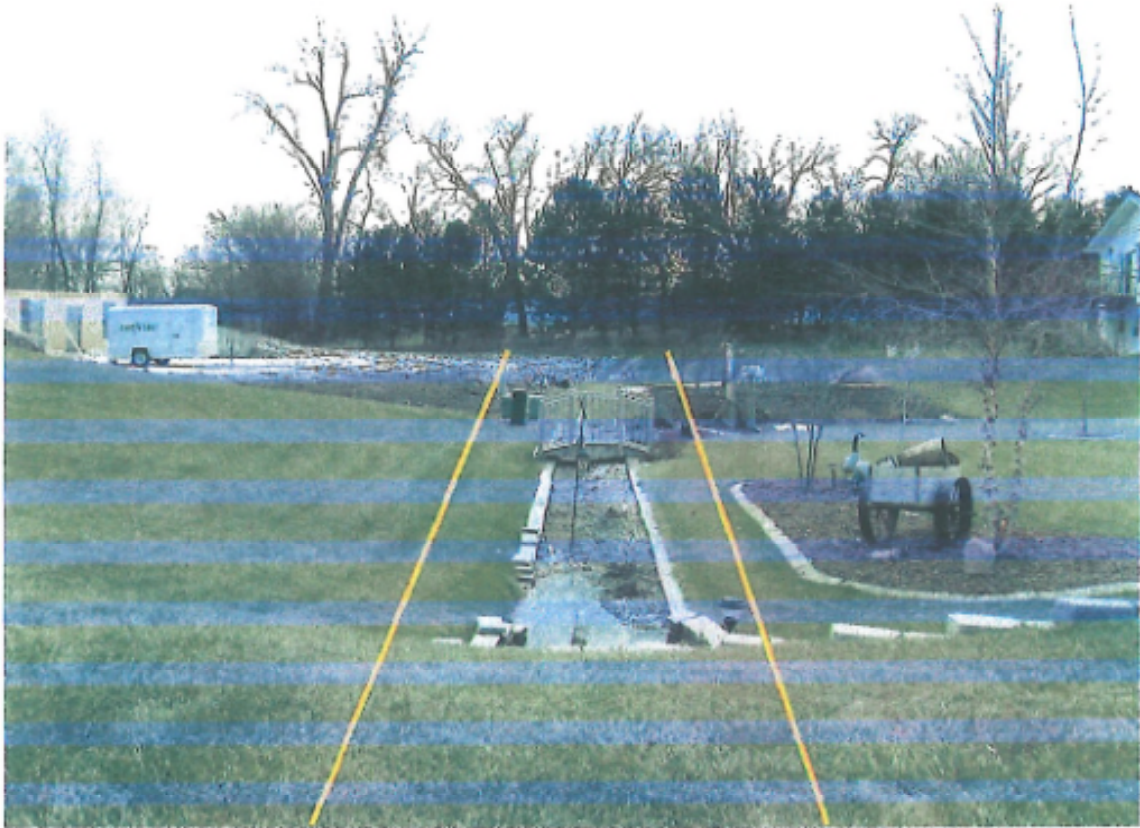
this is what it is  
after we put concrete in.

permit dated 6-12-2008  
permit # 5564



this is how high  
the water got when  
hydrant was flushed  
The water moved the  
electric box





Looking south from the intersection of "E" Street and Walnut Street. The yellow lines indicate the utility easement.

*When the city put the drain in, they also poured the first 13 ft. of concrete in the drainage ditch. We extended the concrete to the property line.*



Look north from the utility easement at the outlet from a storm water drainage system that handles the storm water from "E" Street and other streets and properties located in Kozi Addition. Storm sewer outlet is approximately 36" in diameter.



Looking south from the utility easement towards a newly constructed inlet storm water drainage system and dirt fill was installed by or for Patrick and Carol Meysenburg. Inlet is approximately 30" in diameter. Newly constructed inlet storm water drainage system bends or turns to the east to drain into a flowing stream. Before construction, a natural waterway existed in this location.













P.O. Box 191  
557 4<sup>th</sup> Street  
David City, NE 68632



Phone: (402) 367-3135  
Fax: (402) 367-3126  
www.davidcityne.com

March 31, 2008

Patrick & Carol Meysenburg  
940 North 4<sup>th</sup> Street  
David City, NE 68632

**RE: Drainage Concerns for Property Legally Described as: David City, Lot 3, Block 2, Kozi Addition.**

Mr. & Mrs. Meysenburg:

The reason for this written communication is to provide you with documentation and notice of drainage issues that have been created by the placement of a drainage tube in the rear and side yard of your property located in Kozi Addition. Please find photos of the concern area attached.

The City of David City and David City Utilities retains a utility easement located on the rear five (5) feet of your property and your neighbors properties for the reason of providing utilities. On March 31, 2008, after a minimal rain fall, the rear five (5) feet of your property and your neighbors properties were consumed with storm water runoff because of an inadequately sized and located drainage tube being installed in the rear and side yard of your property located in Kozi Addition.

This written communication is to provide you with appropriate notification that you will be legally responsible for damages to any and all utilities within the utility easement resulting from the inappropriate drainage system being installed in the rear and side yard of your property located in Kozi Addition.

Please work with your neighbors to ensure utility services are not impacted and storm water runoff is corrected in a manner that is suitable for you and your neighbors.

Should you have any questions or comments, please contact me at (402) 367-3135 or by email at [joejohnson@alltel.net](mailto:joejohnson@alltel.net).

Sincerely,

Joe J. Johnson  
City Administrator

Enclosures

Council President Tom Kobus stated that the next agenda item was discussion concerning the final budget numbers.

City Administrator Clayton Keller said, "Tami and I wanted to give the Council a chance to discuss any final budget items that you wanted to discuss before we had our public hearing in two weeks. We've published in the newspaper what the tax request would be, and we have a two-day window to change that if you have any last-minute requests."

Council member Jessica Miller said, "You've added the trucks into the budget?"

City Administrator Clayton Keller said, "Yes. There haven't been any changes since we last talked. Okay, I just wanted to double check."

There being no further business to come before the Council, Council member Jessica Miller made a motion to adjourn. Council Member Bruce Meysenburg seconded the motion. The motion carried and Council President Tom Kobus declared the meeting adjourned at 8:35 p.m. Tom Kobus: Yea, Bruce Meysenburg: Yea, Pat Meysenburg: Absent, Jessica Miller: Yea, John Vandenberg: Yea, Kevin Woita: Yea  
Yea: 5, Nay: 0, Absent: 1

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CERTIFICATION OF MINUTES

August 25, 2021

I, Tami L. Comte, duly qualified and acting City Clerk for the City of David City, Nebraska, do hereby certify with regard to all proceedings of August 25, 2021; that all of the subjects included in the foregoing proceedings were contained in the agenda for the meeting, kept continually current and available for public inspection at the office of the City Clerk; that such subjects were contained in said agenda for at least twenty-four hours prior to said meeting; that the minutes of the meeting of the City Council of the City of David City, Nebraska, were in written form and available for public inspection within ten working days and prior to the next convened meeting of said body; that all news media requesting notification concerning meetings of said body were provided with advance notification of the time and place of said meeting and the subjects to be discussed at said meeting.

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Tami L. Comte, City Clerk