CITY COMMISSION MEETING
December 8, 2021 at 10:00 AM

CITY COMMISSION / MUNICIPAL COURT ROOM
518 MECHANIC, EMPORIA, KS

Agenda

Items

- Discuss Property at 305 18th Avenue
- Request for funds for American Jr. Golf Association Tournaments (AJGA).
- Discuss Proposal from KLM for Reconditioning Services of 12th Ave. Elevated Storage Tank.
- Discuss Purchase of an Aerial Bucket Truck, Backhoe, and Vacuum Street Sweeper for Public Works Department
- Discuss Utility Rate Increase

**If you need accommodations due to a disability to participate in this event, meeting, or activity, or alternative format of written materials contact City of Emporia Jeff Lynch, ADA Coordinator at least 48hours before the event at 620-343-4285 or jlynch@emporia-kansas.gov*

Memorandum Study Session - 12-8-21

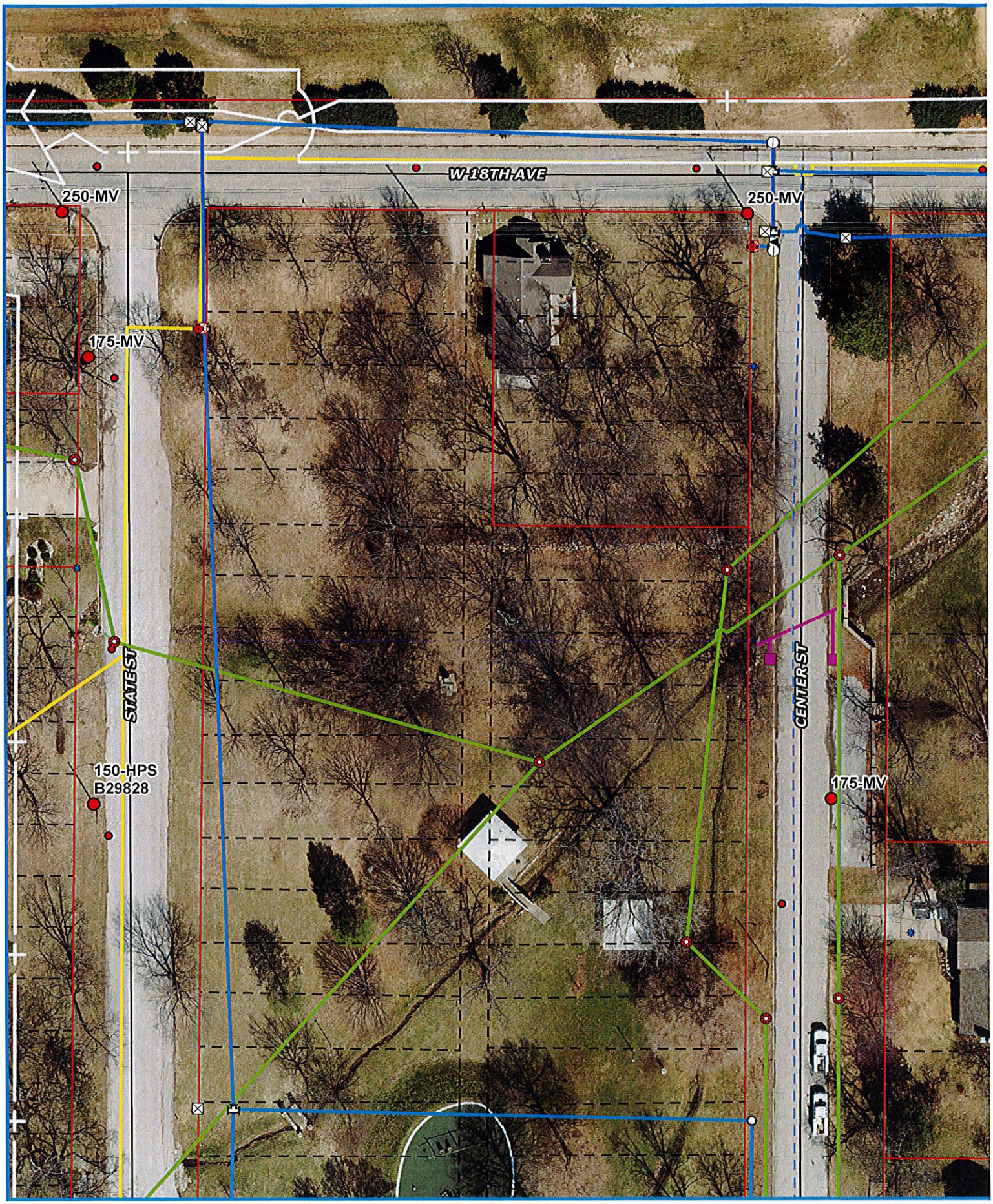
To: City Commission and Management Staff

From: FCM and SPC

Date: December 8th, 2021

The SPC will present a proposal to clear up an alley dedication and property line issue at 305 18th. Attached is a map of the area and the boundaries of the property in question.

Questions, please contact the SPC.



THE CITY OF EMPORIA

Aerial Map/Layout

1 " = 60 '

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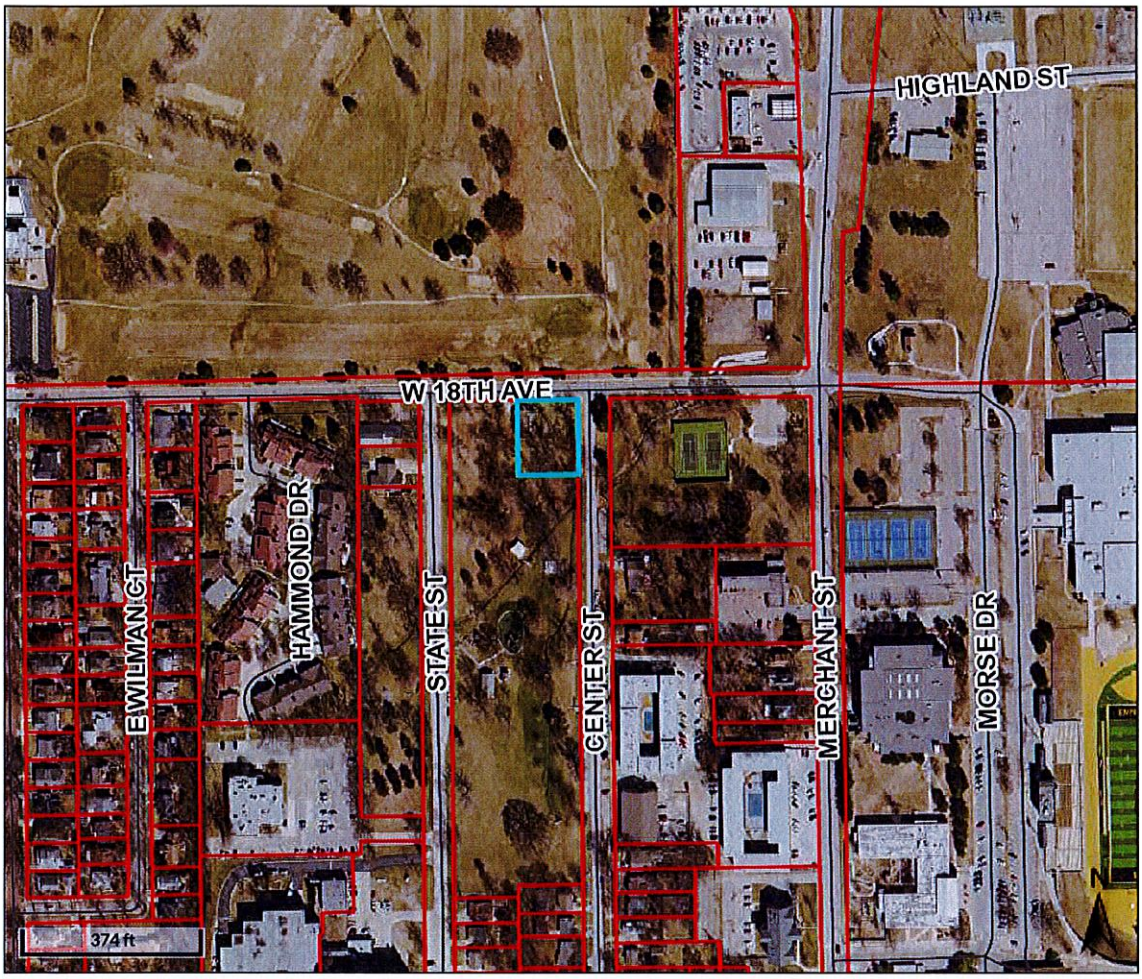
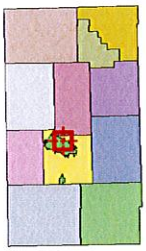
Beacon™ Lyon County, KS



Overview



Legend

- Parcels
- City Limits
- Road Centerline

Parcel ID	1921002002001000	**Alternate ID**	n/a	**Owner Address**	CHALLENDER, PAUL C & DEBRA L
Sec/Twp/Rng	10-19S-11E	**Class**	R - Residential		2313 ROAD M
Property Address	305 W EIGHTEENTH Emporia	**Acreage**	0.4		EMPORIA, KS 66801-7922
District	005				
Brief Tax Description	ORGAN'S SUB DIV, S10, T19S, R11E, Lot 81 - 86, ACRES 0.4, (125.0 X 150.0) (Note: Not to be used on legal documents)				

Disclaimer: The data used to produce this map is not survey accurate. It is intended for tax purposes only.

Date created: 12/1/2021
Last Data Uploaded: 11/30/2021 11:19:15 PM

Developed by Schneider GEOSPATIAL

Memo

TO: City Commission

FROM: Dean Grant, Director of Public Works

CC: Department Heads

DATE: December 2, 2021

SUBJECT: 1,000,000 Gallon Elevated Storage Tank Rehabilitation

On October 5, 2021, public works staff utilized the services of KLM Engineering to inspect the 1,000,000 gallon elevated storage tank, located in the 800 block of 12th Avenue (near Dillon's). The tank, which was completed in 1989, has not had any substantial work/repairs to the structure in the last 32 years. The inspection found that the tank needs structural repairs and a new coating to protect the structure. In addition, the tank will need upgrades to the interior lighting, tank ventilation, and repair/upgrades to various safety features.

KLM Engineering specializes in water storage tanks. They performed the inspection on the tank, so they understand what is needed to recondition the tank. KLM can design and inspect the much-needed rehabilitation, and public works staff would like to contract KLM Engineering for these services. The cost of design is $15,000.00, construction management is not to exceed $6,570.00, construction observation is not to exceed $60,290.00, and one-year warranty inspection is $3,750.00. Total lump sum cost for the KLM Engineering's services is $21,750.00, and total not to exceed cost is $66,860.00. The rehabilitation project is estimated to cost approximately $1,100,000.00. This project would be funded by the first State Revolving Fund loan.

Attachments: KLM Engineering Proposal

November 17, 2021

Proposal for
Reconditioning Services

KLM Engineering Inc.
WATER TOWER SPECIALISTS

Emporia, Kansas
1,000,000-Gallon Dillon Tower

KLM Engineering, Inc. | 1976 Wooddale Drive, Suite 4 | Woodbury, MN 55125
Toll Free: 888-959-5111 | Phone: 651-773-5111 | Fax: 651-773-5222 | www.klmengineering.com

KLM Engineering Inc.
WATER TOWER SPECIALISTS

West Central Office
5100 W. 95th Street
Prairie Village, KS 66207

November 17, 2021

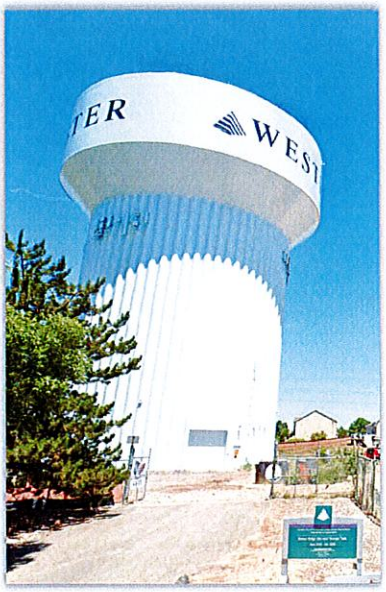
Mr. Dean Grant
Director of Public Works
City of Emporia
1220 Hatcher
Emporia, KS 66801

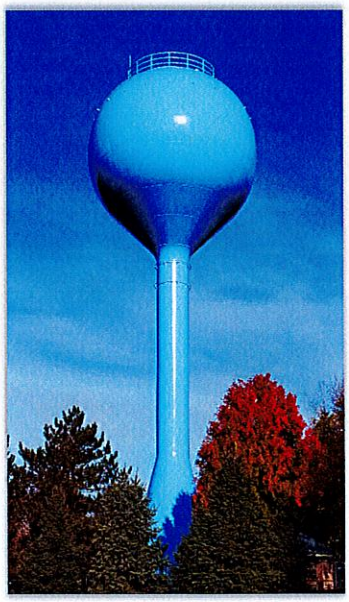
Dear Mr. Grant,

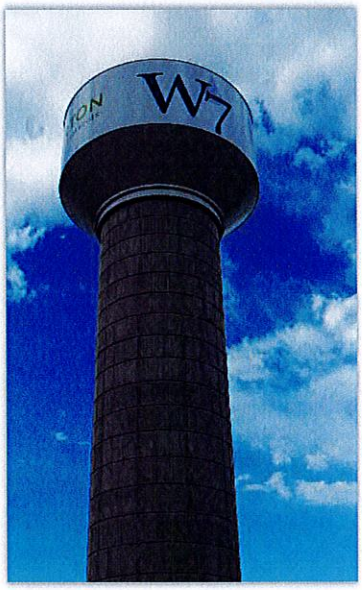
Thank you for the opportunity to submit this proposal to provide engineering and inspection services during the rehabilitation of the 1,000,000-gallon Dillon Water Tower in Emporia, KS.

KLM has a staff with the most credentials associated with AWS welding and NACE coating inspections of water storage tanks in the five-state area. When it comes to quality inspections on water towers, KLM sets the standard that other companies try to duplicate. Our dedication to quality inspections can be seen nationally as our projects are represented each year in Tnemec's Tank of the Year calendar contest.

Westminster, Colorado | Sioux Falls, South Dakota | Water District 7, Kansas







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KLM's personnel have been working on water towers since the 1970s. We have tanks that were constructed and painted in the mid-1980s that are just coming up on their first reconditioning. KLM anticipates the tower's coating systems will be in service 22-30 years. This is due to KLM professionals trained to perform proper inspections and holding contractors accountable for quality workmanship.

Our inspections are performed by a professional staff with current and proper credentials. Our inspectors who, work directly under our Structural Engineer and Project Supervisor are certified as both NACE and AWS inspectors. Each employee takes ownership of their project. Our professional staff has a combined 150 years of experience and have successfully completed over 500 rehabilitations of water towers of various sizes. The KLM staff is fluent in the current codes and standards for new and reconditioned water tower projects.

KLM inspectors climb the towers daily to accept or reject the workmanship of the day. The main reason owners hire a professional consultant is to protect the owner's investment. The average tank without a professional inspection usually needs to be repaired after fifteen years compared to KLM projects, which are lasting 20 or more years.

No firm receives respect from tank contractors and subcontractors like KLM. Our role is to provide quality assurance and enforce the specification. KLM is very thorough with our documentation of what and how the work is being performed each day.

KLM would like to assist you with our expertise on quality control which will make this a successful project for many years to come. By selecting KLM, you can be assured that the project will be completed to your satisfaction.

We look forward to working with you.

Sincerely,

KLM ENGINEERING, INC.

Tom Quammen
West Central Regional Manager
5100 West 95th Street
Prairie Village, Kansas 66207
Cell: 913-291-9076
Fax: 651-773-5222
Email: tquammen@klmengineering.com

U:\Proposals\1. Proposal Masters\Reconditioning Proposal\West Central\2.0 Cover Letter.Docx

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DISCLAIMER:

The information in this proposal is confidential, may be legally privileged, and is intended for the sole use of the City of DeKalb. Access to this proposal by another company is not permitted. If you are not the intended recipient, any disclosure, copying, distribution or any action taken or committed in reliance on it is prohibited.

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Proposal

Project Understanding

KLM Engineering will provide a complete project manual; technical specifications, bid-documents, project administration, project management and construction observation service for the reconditioning of the 1.0 MG Dillon Water Tower.

Benefits to the City of Emporia

- Today's protective coating systems are designed to last 20-25 years with only minor maintenance. Tight project specifications and full-time inspections give the coating systems the opportunity to realize their intended service life.

- KLM proposes to prepare a specification package specifically designed for water tower reconditioning. Our experience has shown that the more comprehensive the specification is, the more likely it is that the project is completed on time, on budget, with quality workmanship. The KLM specifications will mitigate requests for change orders during reconditioning.

- Welding and full time NACE Coating Inspections during reconditioning assures that the work performed by the contractor is in conformance with the specifications, as to maximize its life expectancy. KLM's inspectors monitor workmanship during all phases of work to verify the contractor's work meets the specification. Utilizing this process, maintenance costs will be reduced by decreasing the number of reconditioning cycles over the life of the tank.

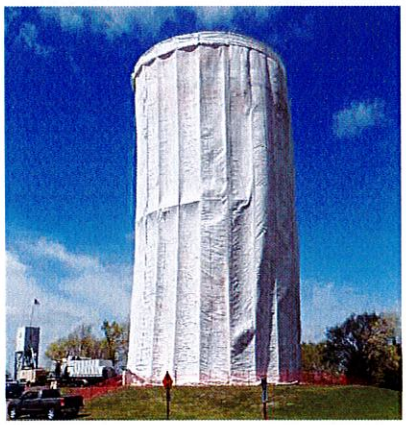
- Our project administration and inspection services provide a buffer between the project specifications and the real-world challenges that can negatively affect project performance. To initiate the project correctly, KLM's project management assures that a qualified contractor is retained at an appropriate cost.

KLM Work Plan

Upon execution of an agreement, KLM proposes the following schedule to perform the work:

Emporia City council approval:

1. Design Services
   Completed by KLM
2. Construction Management and Inspection Services
   Completed by KLM
3. Warranty Inspection
   ROV completed per contract



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Design

KLM will also perform at a minimum, the following related specification services:

- Meet with the owner to review plans and specifications.
- Produce preliminary and completed copies of the specifications for the owner.
- Provide an updated cost estimate.
- Advertise specifications on Quest CDN.
- Attend and facilitate a mandatory pre-bid meeting.
- Issue specification to bidders and respond (in writing) to bidder questions.
- Tabulate results for Owner's.
- Evaluate contractors' bid proposals for conformance to the specification.
- Recommend (in writing) to Owner the low, qualified bidder(s).
- Prepare Notice of Award and contract Agreement (forward to Owner).

Specifications

Project Requirements

This section includes the City's requirements, complete description of the project, project schedule, execution of contract documents; notice to proceed, project meetings and quality assurance.

Scope of Work: Project Specifications

The project specifications will include:

Advertisements for Bids
This section provides a detailed description of the project and meets the requirements for legal advertisements.

Instruction to Bidders
This section provides precise instructions to bidders including the scope of work, insurance, payments, time of completion, bidder qualifications, taxes and permits, legal requirements, performance and payment bonds and other important project information.

Bid Forms
This section contains the bid proposals, construction time frame alternate bid proposals, legal requirements, and the bidder and subcontractor qualification forms.

Project Requirements
This section includes a complete description of the project, project schedule(s), execution of contract documents; notice to proceed, project meetings, quality assurance, liquidated damages, and legal and technical requirements for executing the scope of work.

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Technical Specifications
This section details the technical specifications for structural modifications, surface repairs, interior and exterior surface preparation, exterior abrasive blast containment, disposal of spent abrasives, dehumidification, lettering and logo, submittals, workmanship, unfavorable weather conditions, surface coating and material, repair work, health and sanitary facilities, clean up, ventilation and safety requirements, superintendent, inspection of work, sterilization of tank interiors, and containment plan.

Supplemental Conditions
This section supplements or amends the General Conditions and/or other provisions of the Contract Documents.

General Conditions
This section includes all the General Conditions designed for water tank reconditioning, such as authority of the Engineer, engineering inspection, modifications, additions and subtractions of scope of work, extensions of time, insurance and other appropriate items.

Contract Documents
This section provides the form of agreement to be used between the Owner and Contractor.

Payment and Performance Bond
Bonds for payment and performance are required for this project, as specified by state law.

Appendix A: Photos
This section includes copies of color photographs. This provides the contractor with a clear perspective of the interior/exterior conditions of the tank, and the scope of work involved.

Appendix B: Drawings
This section includes drawings, which define structural repairs or modifications and welding definitions.

Appendix C: Surface Preparation Requirements
This section references excerpts from NACE Standard Practice SP0178-2007 Standard Practice: Design, Fabrication, and Surface Finish Practices for Tanks and Vessels to Be Lined for Immersion Services for defining welding and grinding requirements of the structural repair or modifications.

Appendix D: Paint Chip Lead Test Results
This section contains paint chip test results for lead and chromium used to calculate the risk factor and classification of containment required for conformance with Federal and State Environmental Regulations.

Appendix E: Lettering and Logo (optional)
If required, this section includes drawings of any required lettering and logo.

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Construction Services

Construction Administration

The project manager and project supervisor work together on managing the project. The project supervisor does the initial review of the submittals and communicates with the inspector daily to help enforce the project specifications as necessary. The supervisor is the main contact between the contractor representative and the Owner. The manager does the final review of the submittals and will assist the supervisor as required.

Construction management consists of the following:

- Attend and facilitate preconstruction conference.
- Removal of cellular equipment.
- Periodically perform on-site review of project's work status and report to the owner.
- Coordinate progress meetings as necessary.
- Review of meeting minutes.
- Scheduling of inspections.
- Project close out administration.
- Establishes warranty date.
- Review of inspector's daily documentation.
- Process change orders.
- Prepare monthly payment request forms.
- Review and approve of the contractor's submittals:

1. Drawing reviews
2. Welder Certifications
3. Welder Qualifications
4. Welding Procedures
5. Coating Materials Submittal
6. TLCP Sampling Plan

Construction Observation

The **full-time** inspector assigned to this project will be a NACE Coating Inspector and/or AWS Certified Welding Inspector. All our inspectors have extensive practical experience and knowledge of water storage tank reconditioning. They are experienced sandblasters, painters, climbers, riggers, coating inspectors, welders and welding inspectors which allow the inspector to perform inspections alongside the contractor to ensure conformance to the project specification.

At a minimum, the field inspections will include the following:

- A preconstruction meeting with the client and contractor to clearly define the role of the Engineer and Inspector, to discuss the intent of the specifications, and to ensure all parties agree to the scope of work and expectations regarding the quality of work.
- Monitor and approval of the structural repairs and modifications for conformance to the specifications.
- Inspection of the abrasive blasting media and equipment for conformance to the specifications and to prevent contamination of surfaces during surface preparation with moisture and oil or other contaminants.
- Monitor the paint removal and disposal process for conformance to the specifications and environmental regulations.
- Monitor the contractors mixing and application of the coatings for conformance to the specifications and the coating manufacturer's recommendations.

- Approve surface preparation samples.
- Record the contractor's progress for adherence to the construction schedule.
- Submit daily and weekly inspection reports. Prepare and file copies of the reports on construction activities.
- Coordinate and review testing of materials for conformance to the specification and environmental regulations.
- Monitor punch list items and subsequent corrective action by the contractor.
- Final inspection, substantial completion, and project acceptance.

Warranty Inspection

KLM proposes to perform an ROV warranty inspection on the referenced tank prior to the expiration of the performance bonded two (2) year warranty. The warranty inspection will include an inspection report. Prior to the warranty expiration, KLM will request verification to proceed with the warranty inspection under the terms of this contract. The fixed fee does not include any necessary warranty repair work required.

Deliverables

The **City of Emporia** owns and retains this documentation. KLM also retains these records for future reference. Deliverables submitted electronically unless indicated hard copy.

- Professional Engineering Certified plans and specifications
- State Regulatory documentation including permitting, State Agency or Department of Health, TCLP Testing and Waste Tracking
- Contractor Submittals
- Daily Logs & Weather Logs
- Surface Preparation
- Daily Digital Photos
- Weekly Summary & Progress Meeting
- Project Acceptance Certificate
- Warranty Inspection Report Owner & Contractor)

Proposal Summary

KLM Engineering estimates this to be a 10-week project for the contractor with 9-weeks of inspection services. KLM will manage the water tower rehabilitation with comprehensive specifications, engineering, project management, welding inspection, coating inspection, and an ROV warranty inspection as detailed below.

Cost Summary

1. Design Services	Fixed	$15,000.00
2. Construction Management	Not to Exceed	$6,570.00
3. Construction Observation	Not to Exceed	$60,290.00
Total Estimated KLM Cost in 2022/23		**$81,860.00**
4. Warranty Inspection 2024/25	Fixed	$3,750.00

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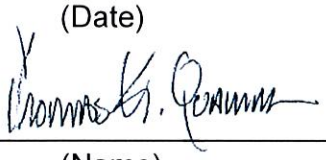
Why Use KLM

KLM Engineering, Inc. has been evaluating and providing reconditioning engineering and inspection services on water tanks and towers for over 25 years. KLM is the leader in providing engineering and inspection services during reconditioning of towers greater than 100,000-gallons in the Upper Midwest. Our reference list has customers including the US Military, Indian Health Services, Multiple States and municipalities ranging from coast to coast and beyond-including Hawaii, and Canada.

Agreement

This proposal is valid for sixty (60) days from November 17, 2021. If City of Emporia finds this proposal acceptable, please sign and return by mail, fax, or email. We can begin work immediately once an agreement has been executed based on the project work schedule.

This agreement, between the City of Emporia and KLM Engineering, Inc. of Woodbury, Minnesota is accepted by:

_____		City of Emporia,
(Name)	(Title)	Kansas
_____		
(Date)		
	West Central Regional Manager	KLM Engineering, Inc.
(Name)	(Title)	Prairie Village, Kansas
November 17, 2021		
(Date)		

We look forward to working with you.

Sincerely,

KLM ENGINEERING, INC.

Tom Quammen
West Central Regional Manager
5100 West 95th Street
Prairie Village, Kansas 66207
Cell: 913-291-9076
Fax: 651-773-5222
Email: tquammen@klmengineering.com

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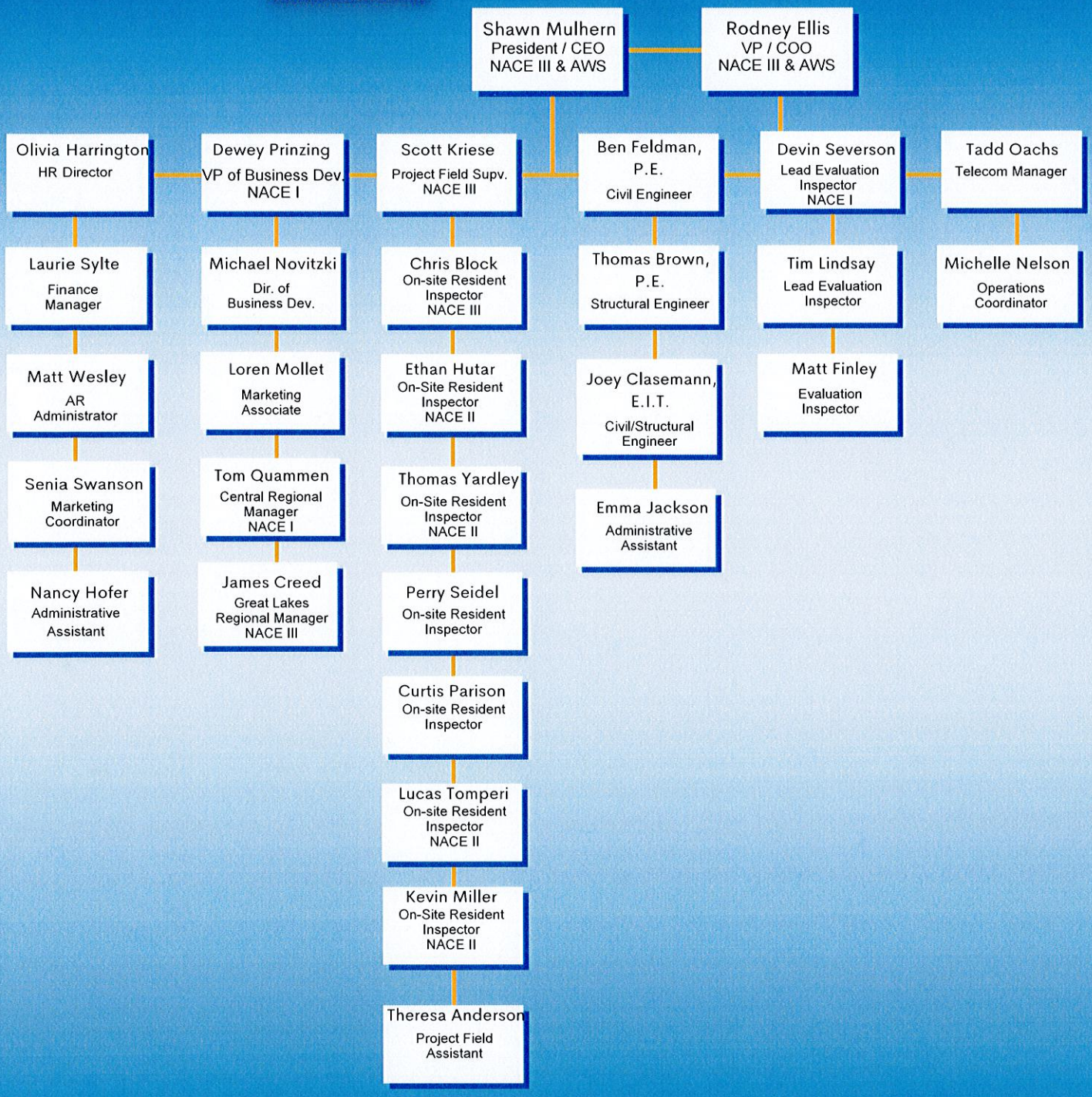
Project Team

KLM Engineering Inc.
WATER TOWER SPECIALISTS

KLM Project Team Chart

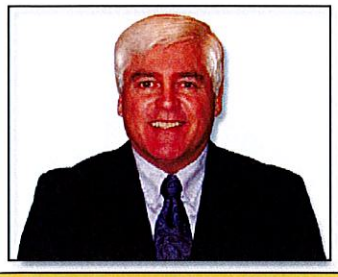
When you hire KLM, you hire a team of water tower specialists.



All inspectors work directly under a Professional Engineer and a NACE Certified Project Supervisor.

Project Team

To provide a combination of client satisfaction and industry expertise, KLM has assembled a staff specific to the needs of our clients. The Project Team, listed in the organizational chart on the previous page, work year-round, with current projects booked into 2021 and beyond. In addition, KLM's staff have an extensive knowledge base, specializing in water storage systems, whether it be inspection, recondition, coatings, new tanks, or telecommunications. To ensure each project is held to the highest of standards, our team consists of Professional Engineers and certified inspectors by the National Association of Corrosion Engineers (NACE) and American Welding Society (AWS). Further details on the expertise of KLM's project team can be found in the preceding pages.



SHAWN MULHERN - PRESIDENT/ CEO/ PRINCIPAL OWNER

Mr. Mulhern has been inspecting, testing, and evaluating water towers for over 36 years. He has been involved in the inspection of over 300 elevated water towers, ground storage reservoirs, and industrial tanks of sizes ranging from 50,000 gallons to 120 million gallons. Shawn is a NACE Level III Certified Coatings Inspector and an American Welding Society (AWS) Associate Welding Inspector. He is also an avid volunteer and educational presenter nation-wide.

EXPERIENCE & EDUCATION

- American Water Works Association
- American Welding Society
- National Association for Corrosion Engineers
- Society for Protective Coatings
- Water Industry Professionals
- 2018 AWWA Benjamin G. Mason Award of Excellence

- AEC Engineering, Inc. | Coating Systems Supervisor
- Neumann Company Contractors, Inc. | Journeyman Painter
- NACE Successful Coating & Lining of Concrete
- Supervisory Leadership | Wilson Learning
- 3M Safety Training Program
- Tnemec Protective Services Seminar
- Industrial Technology | UW-Stout
- NACE III Inspector | No. 1293
- AWS- Welding Inspector No. 89040022
- OSHA Lead Abatement
- NDE Level II TU, PT, MT and vacuum box

RODNEY ELLIS - VICE PRESIDENT/ COO/ PRINCIPAL OWNER

Mr. Ellis has extensive experience working with a wide range of municipalities, military, and industrial facilities. He has worked on hundreds of water storage reservoirs, lead abatement projects, industrial tank reconditioning projects, water treatment plants, and bridges over the past 29 years. Rodney is a NACE Level III Certified Coatings Inspector, and an AWS Certified Welding Inspector. Rodney offers significant benefits to clients because of his work with all types of contractors on many types of complex projects.

EXPERIENCE & EDUCATION

- American Welding Society
- National Association for Corrosion Engineers
- Society for Protective Coatings
- Water Industry Professionals

- AEC Engineering, Inc. | NACE Coatings Inspector
- Neumann Company Contractors, Inc. | Industrial Sandblaster & Painter
- Mount Scenario College
- NACE III Inspector | No. 1686
- AWS- Welding Inspector No. 95040714
- API 653 | Above ground storage tank inspection
- NDE Level II TU, PT, MT, and vacuum box
- OSHA 10

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BEN FELDMAN, P.E. - CIVIL ENGINEER

Mr. Feldman has worked in both the private and public sector starting out his career as an engineer and project manager with the Midwest leader in design of state-of-the-art municipal facilities and other complexes. Ben's project experience ranges from treatment plants, pump stations to distribution studies and maintenance plans. He is also an active member of Minnesota section AWWA as Board Security-Treasurer for over four years. Ben provides KLM's clients with creative, cost-effective solutions, exceptional service, and a level of quality as if it were his own.

EXPERIENCE & EDUCATION

- American Water Works Association
- MN-AWWA Young Professionals

- St. Paul Regional Water Services | Civil III
- SRF Consulting Group, Inc. | Field Engineer
- Anderson-Johnson Associates, Inc. | Project Manager
- University of Minnesota | Bachelor of Science- Civil Engineering
- Minnesota License | No. 49598
- Colorado License | No. 0057334
- OSHA 10

SCOTT KRIESE - PROJECT FIELD SUPERVISOR

Mr. Kriese is a NACE Level III Certified Coatings Inspector with fourteen years of experience on projects including surface preparation, coating application, and inspection services during reconditioning, new tank construction, and structural repairs on water storage tanks and towers. Scott is currently a Project Field Supervisor overseeing NACE inspectors who are performing daily inspections of new and reconditioned water storage tanks. Scott has provided resident inspection services or oversite on hundreds of potable water and fire protection tanks during his tenure at KLM.

EXPERIENCE & EDUCATION

- National Association for Corrosion Engineers
- Society for Protective Coatings

- KLM Engineering, Inc. | Project Field Supervisor
- NACE III Inspector | No. 11236
- OSHA 10

DEWEY PRINZING - VP OF BUSINESS DEVELOPMENT

Mr. Prinzing has been in the construction, inspection, testing, and evaluation industry for more than twenty years. He has been involved in the inspection of elevated water towers, ground storage reservoirs, and industrial tanks of sizes ranging from 50,000 gallons to 3 million. Dewey transitioned his knowledge as a NACE Inspector to his current role in sales. In sales, Dewey successfully assists clients with their various needs whether it be on rehabilitation, new tank construction, structural repairs, evaluations, tank cleaning, or mixing.

EXPERIENCE & EDUCATION

- National Association for Corrosion Engineers
- Society for Protective Coatings
- Water Industry Professionals

- Southwest Manufacturing, Inc. | Regional Sales Manager
- Otte Log Homes | Carpenter
- NACE I Inspector | No. 44811

MICHAEL NOVITZKI - DIRECTOR OF BUSINESS DEVELOPMENT

Mr. Novitzki has been in the sales and marketing industry for over four years. Since joining KLM, Michael has been able to utilize his skills in sales to excel in the water storage industry with a desire to assist communities of all different sizes. Michael has been involved in projects ranging from 50,000 to over one million gallons. Michael's goal to make sure every community has a positive experience regarding their water storage tank is evident in his superior workmanship and making sure the needs of his clients are taken care. He is also a valued member of the AWWA Young Professionals and a MAC Committee liaison.

EXPERIENCE & EDUCATION

- American Water Works Association
- MN-AWWA Young Professionals
- Water Industry Professionals

- First Financial | Director of Sales & Business Development
- New York Life | Financial Advisor
- Target Corporate | Merchandise Analyst
- Holy Cross College | Bachelor of Arts & Science-Finance, Marketing & Spanish
- Series 6
- MRWA Operator Training

JAMES CREED - GREAT LAKES REGIONAL SALES MANAGER

Mr. Creed is the Regional Manager located in our New Lennox, Illinois office. He has a combined 30+ years in the coatings industry primarily in General Industrial, OEM, Marine, Protective Coatings and Linings. The knowledge and understanding of protective coatings, surface preparation, and local, federal, and industry regulations Jim brings to KLM, confirms clients are receiving the most reliable guidance for their assets. Jim is also a NACE Level III Certified Coatings Inspector and SSPC Certified Concrete Coating Inspector.

EXPERIENCE & EDUCATION

- American Water Works Association
- Society for Protective Coatings
- Water Industry Professionals
- National Association for Corrosion Engineers

- The Society for Protective Coatings | Midwest Chapter Board Member
- Carboline Company | Senior Engineer Sales Manager
- Sherwin Williams | Senior Protective Coating Specialist
- NACE III Certified | No. 8970
- SSPC Certified Concrete Coating Inspector | No. 29820
- Engineering Sales Presidents Award | 2017, 2018

TOM QUAMMEN - WEST CENTRAL REGIONAL MANAGER

Mr. Quammen is the Regional Manager located in our Prairie Village, Kansas office. He has a combined 30+ years of water tank/ tower experience, first as a NACE and UT inspector for a small structural engineering firm in Minneapolis, then as a Principal Tnemec Company Representative, first in MN, then CO, ID, MT, NM, NV, UT, and WY. In addition, he has knowledge of structural engineering, extensive protective coatings experience, and ACI/ ICRI training. His skills and experience are an asset to KLM and our clients.

EXPERIENCE & EDUCATION

- American Water Works Association
- KS/MO/CO Rural Water Association
- Water Industry Professionals
- Tnemec Corporate Award (Retired)

- Tnemec Company | Principal, Agency Owner
- AEC Engineers & Designers | Technician
- Twin City Testing | Technician
- Anoka Technical College
- Mankato State University
- CSI CDT

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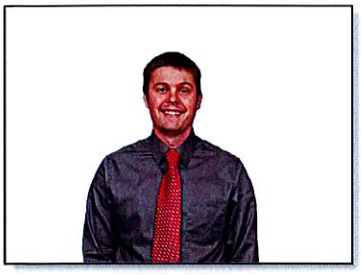
- ICRI Slab Certified



TADD OACHS - TELECOM MANAGER

Mr. Oachs has worked in the telecommunications industry for over 9 years. His knowledge and skill in the field, along with his experience with some of the newest technologies, are an asset to KLM projects. Tadd's extraordinary focus and strategic way of thinking, with his uncanny ability to facilitate clear communication between different teams and departments, is invaluable to completing projects on-time and within budget.

EXPERIENCE & EDUCATION

- St. Cloud University
- Siren Telephone Company | Telecommunications Technician
- CenturyLink | Broadband Technician
- Bear Communications | Installation and Drop Bury Supervisor

LAURIE SYLTE - FINANCE MANAGER

Mrs. Sylte has been in the finance management industry for over 20 years. Of these years, 15 are specific to water storage systems. Laurie excels in project support and budget management for tanks ranging from 25,000 to over a million gallons. She works directly with clients to ensure accounting and budget timelines are met and executed to city and/or council requirements.

EXPERIENCE & EDUCATION

- Somerset Telephone | Finance
- St. Croix Telephone | Finance
- Wisconsin Indian Technical College

DEVIN SEVERSON- LEAD EVALUATIONS INSPECTOR

Mr. Severson is one of KLM's Lead Inspectors, supervising our evaluations team. Devin has been involved with the evaluation of nearly 500 elevated water towers and ground storage reservoirs in 15 states. Devin received his training directly under a NACE III Coating Inspector and currently works under the supervision of a NACE III/AWS Certified Inspector and Structural Engineer. Devin has extensive knowledge with rigging, coating analysis, and destructive/non-destructive testing. Devin's experience with multiple towers has given him the understanding of how to approach information gathering in many different settings. He is also a NACE Level 1 Certified Coatings Inspector.

CERTIFICATIONS

- NACE I Inspector | No. 78234
- OSHA 10

EXPERIENCE

- Joliet, IL | 1 Million-Gallon Rock Run Tower
- Milton, WI | 500,000-Gallon Tower
- Lino Lakes, MN | 1 Million-Gallon Towers No. 1 & 2

TIM LINDSAY- LEAD EVALUATIONS INSPECTOR

Mr. Lindsay is part of KLM's evaluation team, performing inspections and maintenance services as well as product installations. Tim comes with a strong background in equipment operations and mechanics, which comes in handy with our robotic inspection tools. Tim brings to KLM a strong work ethic, something that is seen by our clients with his onsite professionalism and communication style

TRAINING

- KLM Inspector Training

EXPERIENCE

- University of Notre Dame, IN | 500,000-Gallon Tower No. 1
- MCF Stillwater, MN | 330,000-Gallon Tower
- Durand, WI | 100,000-Gallon Single Pedestal Tower

CHRIS BLOCK- ON-SITE RESIDENT INSPECTOR

Mr. Block has been in the industrial coatings industry for more then 25 years with projects worldwide including the United States and Japan. His project portfolio includes surge tanks, pipelines and million-plus gallon water towers, all adding to his vast knowledge in coatings and tank structures. Chris also holds numerous professional certifications as well as being a NACE Level 3 Coatings Inspector.

TRAINING

- KLM Inspector Training
- NACE III Inspector | No. 69860
- OSHA 30
- CAS Full Intern
- SSPC 14
- C3 & C5 Lead

EXPERIENCE

- Japan | jet fuel tanks
- MN Power
- World of Fun | 3 Million-Gallon Tower

CURTIS PARISON ON-SITE RESIDENT INSPECTOR

As a Coatings Inspector, Mr. Parison has over seven years' experience working on projects nationwide. Curtis is an expert climber/rigger with an extensive background in projects ranging from new construction to reconditioning of elevated water towers and ground storage reservoirs. He is a strong advocate for quality workmanship from the start of the project to completion with a thorough attention to detail.

TRAINING

- KLM Inspector Training
- NACE I Inspector (IT)

EXPERIENCE

- Great Falls, MT | 500,000-Gallon Gore Hill Tower
- Moorhead, MN | 500,000-Gallon Woodlawn Tower
- New England, ND | 200,000-Gallon Tower

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PERRY SEIDEL- ON-SITE RESIDENT INSPECTOR

Mr. Seidel has been working in the water storage tank industry for over 15 years, with advanced experience in construction supervision and project management. He has been involved with projects across the United States, with an average of 125 each year. His experience ranges from new construction to rehabilitation of tanks from small to large. His dedication to quality control, safety, and superior project inspection makes him a valued member of the KLM team.

TRAINING

- KLM Inspector Training
- Aerial & Scissor Lift
- Scaffolding Safety Qualification Training
- SAIS Suspended Scaffold Competent Person
- Telehandler Operation Certification
- First Aid/ CPR/ AED
- OSHA 30

EXPERIENCE

- Marshall Archer Daniels Midland (MADM) | 27 tanks
- Cheese Factory, OR
- WAWSA-Ray, ND | 500,000-Gallon Composite

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References And Project Profiles

References

The following list contains a hand full of projects completed by KLM in the past five years. In all, KLM averages 15-20 reconditioning projects per year. A more complete list of references can be provided upon request.

Reconditioning Projects:

- Woodlawn Tower
500,000 Gallon Single Pedestal
Owner/ Client: Moorhead Public Service, MN
Contact: Kristofer Knutson, 218-299-5475
*2018 Tnemec Tank of the Year Runner-Up

- Skyline & Ella Ave Water Tower
750,000 Gallon Elevated Water Tower
Owner: City of Great Falls, MT
Client: AE2S
Contact: Nathan Weisenburger, 406-217-3711

- East Side Tower
500,000 Gallon Elevated Water Tower
Owner/ Client: City of Rosemount, MN
Contact: Dick Howe, 651-322-2041

- Tower No. 1
500,000 Gallon Single Pedestal
Owner: City of Pelican Rapids, MN
Contact: Robert Schlieman, PE (Apex), 218-844-2585

- South Tower
750,000 Gallon Single Pedestal
Owner/ Client: City of Menomonie, WI
Client: Cedar Corp
Contact: Jeremy Hoyt, 715-232-2395

- Mayhew Tower
500,000 Gallon Single Pedestal
Owner/ Client: City of Sauk Rapids, MN
Contact: Craig Nelson, 320-258-5300

- Lexington/ Diffley Reservoir
4,000,000 Gallon Ground Storage Reservoir
Owner/ Client: City of Eagan, MN
Contact: Jon Eaton, 651-675-5215

- West Tower- Keuhn Park Tower
1,500,000 Gallon Composite
Owner/ Client: City of Sioux Falls, SD
Contact: Darin Freese, 605-373-6971

- Zachary Tower
2,000,000 Gallon Toro Spheroid Tower
Owner/ Client: City of Plymouth, MN
Contact: Kevin Mastey, 763-509-5998

- Tower No. 1
50,000 Gallon Hydrocone
Owner/ Client: City of Vermillion, MN
Contact: Marke Peine, 651-248-3108

- Market Center/ Clock Tower
2,000,000 Gallon Composite
Owner/ Client: City of Eden Prairie, MN
Contact: Rick Wahlen, 952-949-8530
*2017 Tnemec Tank of the Year 2nd Runner-Up

- Tower No. 5 & Tower No. 10
500,000 Gallon Single Pedestal
1 Million Gallon Composite
Owner: City of Fargo, ND
Contact: Troy Hall, 701-541-4180

- Flag Avenue Reservoir
1,500,000 Gallon Underground Reservoir
Owner/ Client: City of St. Louis Park, MN
Contact: Aaron Wiesen, 952-924-2673

- North Tower
750,000 Gallon Hydropillar
Owner/ Client: City of Baxter, MN
Contact: Kevin Cassady, 218-454-511

- Randall Road Tower
1 Million Gallon Single Pedestal
Owner: City of Elgin, IL
Contact: Nora Bertram, 847-931-6744

- Tower No. 1
250,000 Gallon Single Pedestal
Owner/ Client: City of Dodge Center, MN
Contact: Mark Barwald, 507-374-2840

- Tower No. 1
400,000 Gallon Single Pedestal
Owner/ Client: City of Wheaton, MN
Contact: Kris Krenz, 320-563-4110

- Tower No. 1
400,000 Gallon Single Pedestal
Owner/ Client: City of Otsego, MN
Contact: Brad Belair, 763-441-9163

- Tower No. 1
50,000 Gallon Legged Tower
Owner/ Client: USG Interiors, LLC- Red Wing, MN
Contact: Larry Dettmer, 651-309-8020

- North Tower
500,000 Gallon Double Ellipsoidal
Owner/ Client: City of Crookston, MN
Contact: Brandon Carlson, 218-289-0273

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Project Profiles

KLM has an unparalleled record of consistently delivering successful projects like yours. KLM has planned, designed, and refurbished water towers for the past twenty years. The longevity of our projects is what we are most proud of. What owners most appreciate is the return in investment KLM brings to each rehabilitation project. The following pages list projects KLM has completed.

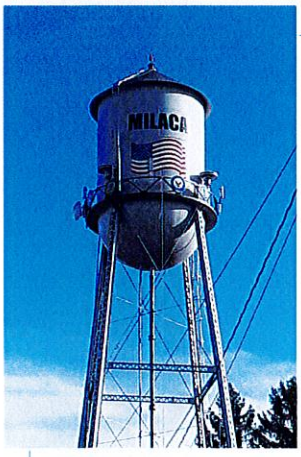
Reconditioning Project Profiles:

City of Eden Prairie, MN Market Center Tower

Reconditioning of: 2,000,000 Gallon Composite

Dates of Service: 2016 Reconditioning

Conditions & Services: The Market Center Tower is an iconic structure for the City, with working clocks on the main column. Given the high profile, size, and challenging location of this tower, the City Manager (Rick Wahlen) performed detailed interviews with each bidding consultant and their staff, to select the best qualified firm to provide the engineering and inspection services required by the City. As the awarded consultant, KLM provided design services, construction management, full time AWS welding and NACE coating inspections throughout the duration of the project. Rick was instrumental in the project from the beginning of pre-construction to the final walk through and close out, including personally climbing the tower regularly to confirm the project had met his standards. Given the tight confines of the jobsite, KLM conducted weekly meetings locally to update the neighboring businesses and residents as the project commenced. The project was successful, being completed on time and within budget. *2017 Tnemec Tank of the Year 2nd Runner Up



City of Milaca, MN Downtown Tower

Exterior Painting of: 50,000 Gallon Elevated Water Tower

Dates of Service: 2019

Conditions & Services: **Please review:**

Dates of Service: 2019

Conditions & Services: This project was special to KLM Engineering due to the opportunity to partner with the City Council to design a mural to honor the 6 branches of the United States Military. As part of this project, the city provided 6 military emblems to attached to the balcony of the tower to honor each military branch. In addition to the intricate design, this project was extremely difficult due to the tight constraints of the job site and the powerlines surrounding the water tower. KLM worked with Tnemec to determine a proper coating that would adhere to the severely damaged coatings due to extensive corrosion. The coating system that Tnemec recommended which proved to be a success was Tnemec Series 118. In the end the project was a total success, and the City is proud of their memorial to honor the men and women who fought for our freedom.

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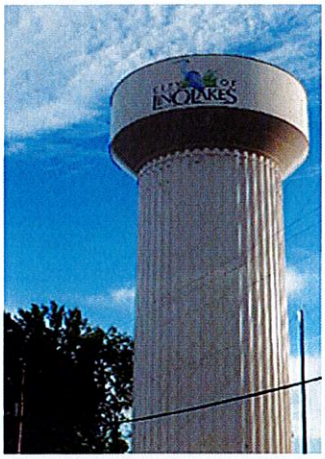
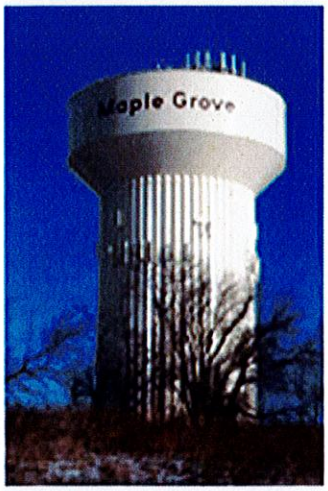


City of Lino Lakes, MN Tower No. 1

Reconditioning of: 1,000,000 Gallon Hydropillar

Dates of Service: 2013 Evaluation, 2016 Reconditioning

Conditions & Services: KLM performed a floatdown evaluation of Tower Number 1. KLM worked with the Utilities Supervisor on the project to provide plans and specifications. A qualified contractor was selected to perform the reconditioning of the tower. A full containment system was utilized during the project. KLM provided construction management, full time AWS, NACE inspectors, and antenna management throughout the project. A new logo was painted on two sides of the tower; choosing Tnemec Hydroflon for the topcoat on the exterior of the tower. The tower can be seen from Hwy 35W & 23.

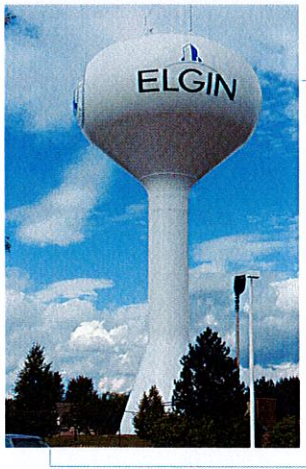


City of Maple Grove, MN Fish Lake Tower

Reconditioning of: 1,500,000 Gallon Hydropillar

Dates of Service: 2011 Mixer, 2014 Evaluation, 2015 Reconditioning

Conditions & Services: This water tower project included a pre-assessment of the conditions, including an updated engineer cost estimate. Plans and specifications were approved as well as a qualified contactor during the bid process. KLM worked with the contractor on submittals including coating selection, drawing reviews, scheduling and more. KLM's Antenna Division worked with multiple cellular carriers to coordinate efforts of relocating cellular equipment to temporary locations during the reconditioning of the tower. KLM conducted weekly meetings on site to synchronize the efforts of the city, engineer, and contractor(s) as the project commenced. The project was successful being completed on time and within budget.



City of Elgin, IL Randall Road Tower

Reconditioning of: 1,000,000 Gallon Single Pedestal

Dates of Service: 2016 Evaluation, 2017 Reconditioning

Conditions & Services: A project of this size combined with a short schedule may intimidate some contractors and inspection firms. With the combined efforts of a local contractor and KLM, this successful project was completed on time and within budget. Antenna relocation also played a large part of the project. The efficiency of all parties involved allowed telecommunications to operate without disruption.

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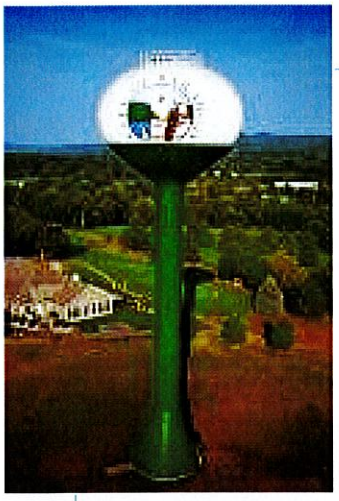
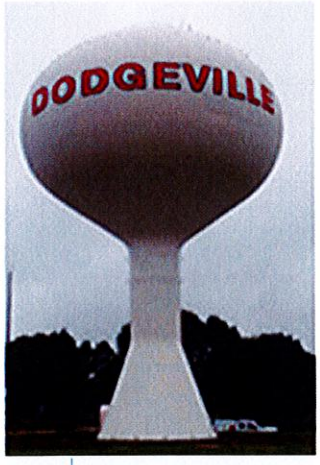


City of Baraboo, WI

Recondition of: 300,000-Gallon Single Pedestal Mine Street Water Tower

Dates of Service: 2012 Evaluation Services, 2015 Reconditioning

Conditions & Services: KLM was selected as the Consulting Engineering to Perform Design Services, Construciton Managment and Inspection Services during the reconditioning of the Mine Street Water Tower. The high degree of difficulty with this project consisted of extensive structural repairs to bring the tower up to OSHA, AWWA, and the WI DNR regulations.

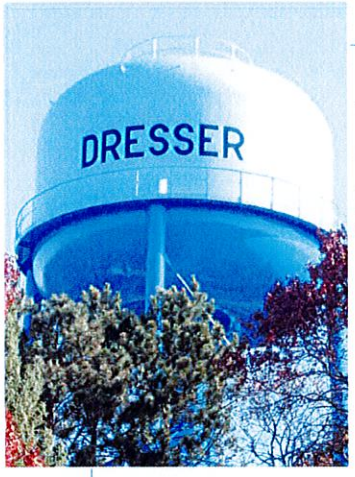


City of Dodgeville, WI

Design Build of: 5,000,000 Gallon Single Pedestal

Dates of Service: 2016 Evaluation, 2016 Design Build

Conditions & Services: KLM was contracted to perform a full reconditoining with structural modications to bring the tank to OSHA and AWWA compliance. Before the project began, an evaluation was completed documenting the current conditions of the tower. The interior wet and exterior of the tank had a full coating replacement. The interior dry sweating areas also underwent a full coating replacement. The coating system used on this project was based on the most recent technology- a Tnemec coating system with a zinc primer, epoxy intermediate coat, 2nd intermediat coat of urethane and a fluoropolymer topcoat. The project was completed on time and within budget.



Village of Dresser, WI Water Tower Number One

Reconditioning of: 200,000 Gallon Legged Water Tower

Dates of Service: 2019 Evaluation, 2020 Reconditioning

Conditions & Services: KLM performed an evaluation of the water tower prior to reconditioning. KLM worked with the Village President on the project to provide plans and specifications. A qualified contractor was selected to perform the reconditioning of the tower. A full containment system was utilized during the project. There was a high degree of difficulty due to the very tight project site. KLM provided construction management, full time AWS, NACE inspectors, and antenna management throughout the project. As part of this project, KLM Engineering provided the necessary drawings and documents to bring this tower up to OSHA, AWWA and WI DNR Regulations and Standards.

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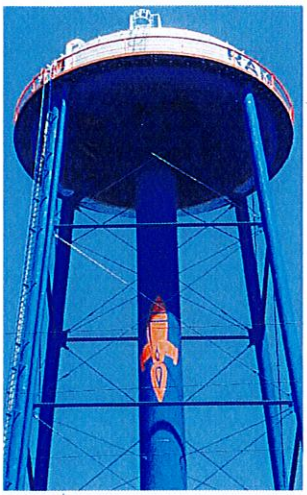

City of Randolph, MN Tower Number One

Evaluation and Reconditioning of: 100,000 Gallon Legged Water Tower

Dates of Service: 2019 Evaluation, 2020 Reconditioning

Conditions & Services: The height of this tower made the working condisitons extremely difficult. With the combined efforts of a local contractor and KLM, this successful project was completed on time and within budget. The City chose to make upgrades to the vent, light, added a mixing system and temperature probes along with a the new dynamic color scheme that was a part of this reconditioning project. The logo on the water tower made this project extra challenging becasue of the placement of the rocket.

St. Olaf College, Northfield, MN

Design Build of: 150,000 Gallon Double Ellipsoid

Dates of Service: 2011 Mixer, 2014 Evaluation Services, 2015 Design Build

Conditions & Services: KLM was selected as the Design Build team to recondition the tower. The high degree of difficulty with this project consisted of extensive structural repairs to bring the tower up to OSHA, AWWA, and Health Standards and the proper removal, and disposal of lead based coatings on the interior and exterior areas of the tower within MPCA regulations. KLM maintained a construction schedule to coincide with the local college summer break in classes. Along with preparing specifications, KLM retained a contractor and provided project construction management, design services, and full-time inspection throughout the duration of the project. The tower was completed to the full requirements of St. Olaf College.

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KLM Engineering Inc.
WATER TOWER SPECIALISTS

Corporate Office
1976 Wooddale Drive, Suite 4
Woodbury, MN 55125

KLM 2021 Fee Schedule

Principal Associate	$160.00 per hour
Structural Engineering	$220.00 per hour
Professional Engineering	$195.00 per hour
Engineer in Training	$125.00 per hour
Project Manager/Supervisor	$140.00 per hour
Field Inspectors – CWI/NACE	$130.00 per hour
Field Inspectors – NACE I & II	$125.00 per hour
Clerical	$85.00 per hour

* Per Client needs, customized pricing is provided based on the total project requirements and time frame.

Reimbursable Expenses

The following expenses are reimbursable to KLM Engineering Inc.:

1. Travel time billed at the labor rates listed above or as contracted.
2. Vehicle mileage billed at $0.85 per mile. KLM onsite vehicle/trailer will be charged at $35.00 per day.
3. Daily Per Diem billed at $180.00 per calendar day or as contracted.
4. Projected related expenses such as onsite rental equipment and sub-contractor or sub-consultants billed at actual cost plus 5%.
5. Production supplies, duplicating, and delivery expenses will be billed at the actual costs incurred, no mark-up.
6. Cell Phone charges will be billed at $20.00 per week.

**Rates may vary due to location*

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KLM Support Documents

KLM ENGINEERING, INC.
TERMS AND CONDITIONS

1. BASIC SERVICES. The scope of KLM's work is described in the attached proposal or contract agreement and may not be expanded or reduced except by mutual agreement in writing.

2. ADDITIONAL SERVICES. Additional work or services shall not be performed without a duly executed change order or purchase order outlining the scope of additional work on services.

3. OWNER'S RESPONSIBILITIES. OWNER shall fully disclose to KLM its knowledge of the condition of the structure and its past and present contents and shall provide KLM with full information regarding the requirements for the project; shall designate an individual to act on OWNER'S behalf regarding the project. If necessary, shall clean and make the structure safe for entry; shall furnish the service of other consultants (including engineers, insurance consultants, accountants, attorneys, etc.) when those services are reasonable required or are reasonably requested by KLM; shall test for pollution and hazardous materials when required by law or requested by KLM; and shall provide all necessary permits and other authorization.

4. SAFETY. KLM shall only be responsible for safety of KLM personnel at the work site. The Owner or other persons shall be responsible for the safety of all other persons at the site. Owner shall inform KLM of any known or suspected hazardous materials or unsafe conditions at the work site. If, during the course of the work, such materials, or conditions are discovered, KLM reserves the right to take measures to protect KLM personnel and equipment or to immediately terminate services. Owner agrees to be responsible for payment of such additional protection costs. Upon such discovery, KLM agrees to immediately notify the Owner in writing, of the hazardous materials or unsafe conditions.

5. HAZARDOUS MATERIALS. Unless agreed in the scope of work KLM has no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials at the project site. To the full extent permitted by the law, OWNER shall defend and indemnify KLM and its employees from all claims, including costs and attorney fees, arising out of the presence of hazardous materials on the job site.

6. SITE ACCESS AND RESTORATION. Owner will furnish KLM safe and legal site access. It is understood by Owner that in the normal course of work, some damage to the site or materials may occur. KLM will take reasonable precautions to minimize such damage. Restoration of the site is the responsibility of the Owner, unless agreed to in the scope of work.

7. STANDARD OF CARE. KLM will perform services consistent with the level of care and skill normally performed by other firms in the profession at the time of this service and in the geographic area, and under similar budgetary constraints. No other warranty is implied or intended.

8. SCHEDULING. Prior to scheduling the OWNER shall furnish a written purchase order or request for the services required and shall give as much notice as possible in advance of the time when the services are desired. Our ability to respond to such an order will depend upon the amount of advance notice provided. If an inspection is canceled or delayed after KLM personnel and/or equipment are in transit to the work site, then the OWNER shall be billed, according to the TERMS AND CONDITIONS, for costs incurred by KLM.

9. INSURANCE. KLM will maintain worker's compensation insurance and comprehensive general liability insurance and will provide OWNER with a certificate of insurance upon owner's request.

10. PAYMENT, INTEREST AND BREACH. KLM will submit itemized monthly or other periodic invoices for work previously performed. Invoices are due upon receipt. OWNER will inform KLM of invoice questions or disagreements within 15 days of invoice date, unless so informed, invoices are deemed correct. OWNER shall make payment within 30 days after receiving each statement, and overdue payments will bear interest at 1.5 percent per month if OWNER is a business entity and at the legal rate of interest of the state in which the project is located if OWNER is a consumer. If any invoice remains unpaid for 60 days, such non-payment shall be a material breach of this agreement. As a result of such material breach, KLM may, at its sole option, suspend all duties to the Owner or other persons, without liability. Owner will pay all KLM collection expenses and attorney fees relating to past due fees, which the Owner owes under this agreement.

11. MUTUAL INDEMNIFICATION. Except as to matters actually covered by insurance purchased by KLM. KLM agrees to hold harmless and indemnify OWNER from and against liability arising out of KLM's negligent performance of the work, subject to any limitations, other indemnification's or other provisions OWNER and KLM have agreed to in writing. Except as to matters actually covered by insurance purchased by OWNER, OWNER agrees to hold harmless and indemnify KLM from and against liability arising out of OWNER'S negligent conduct, subject to any limitations, other indemnification's or other provisions OWNER and KLM have agreed to.

12. LIMITATION OF LIABILITY. OWNER agrees to limit KLM's liability to OWNER arising from professional acts, errors or omissions, such that the total aggregate liability of KLM does not exceed KLM's project fees except as to matters actually covered by insurance purchased by KLM.

13. DELAYS. If KLM work delays are caused by Owner, work of others, strikes, natural causes, weather, or other items beyond KLM's control, a reasonable time extension for performance of work shall be granted, and KLM shall receive an equitable fee adjustment.

14. TERMINATION. After 7 days written notice, either party may elect to terminate work for justifiable reasons. In this event, the OWNER shall pay for all work performed, including demobilization and reporting costs to complete the file project and reports to OWNER.

15. SEVERABILITY. Any provisions of this agreement later held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force. However, OWNER and KLM will in good faith attempt to replace an invalid or unenforceable provision with one that is valid and enforceable, and which comes as close as possible to expressing the intent of the original provision.

16. KLM'S DOCUMENTS. All reports, specifications, drawings and other documents furnished by KLM are part of KLM's services to OWNER for use only for the project, and KLM retains all ownership of said documents regardless of whether the project is completed. OWNER may retain copies for reference in connection with the use and occupancy of the project; but KLM does not represent that the documents are suitable for reuse on extension of the project or on other projects. OWNER and others shall not use the documents on other projects or extensions of this project except by KLM's written agreement. OWNER will defend and indemnify KLM from all claims or losses arising out of the unauthorized use of the documents.

17. ARBITRATION. Any controversy or claim for money damages arising out of or relating to the making or performance or interpretation of this AGREEMENT, or the breach of this AGREEMENT, shall be settled by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association. The arbitration panel shall consist of three arbitrators, at least one of who is a structural engineer; and the panel may award only money damages and shall not award equitable relief. Judgment upon the arbitration award may be entered in any court having jurisdiction of the parties. The enforceability of these arbitration provision and arbitration awards will be governed by the Federal Arbitration Act.

18. ARBITRATION FEES. The prevailing party to any dispute arising out of this AGREEMENT shall be entitled to recover its reasonable fees and costs from the other party.

19. JOB SITE IMAGES, PHOTOGRAPHY AND VIDEO. During the term of this contract and thereafter, KLM has permission to take still photographs or video of the site for training, documentation, education or promotional purposes. A signed agreement constitutes the Owner's written permission to use the photographic image or video in the manner described herein. The only identifiable information to be used by KLM will be the Owner's name as displayed on the image. Acceptance of these terms and conditions is considered a legal release by the Owner allowing KLM to use of photographic images as described herein.

C:\winword\Terms & Cond., proposal.
11/1997

Memo

TO: City Commission

FROM: Dean Grant, Director of Public Works

CC: Department Heads

DATE: December 8, 2021

SUBJECT: Purchase of an Arial Bucket Truck, Backhoe, and Vacuum Street Sweeper

The Street Division of Public Works is requesting to purchase an arial bucket truck, backhoe, and vacuum street sweeper.

Arial Bucket Truck

Sign and Marking utilizes their bucket to maintain the traffic control lights at intersections, flashing crosswalk beacons, sign installation and maintenance, downtown banners and Christmas decoration, and the various event banners hung in the downtown area. The arial bucket truck is that sign and marking is currently using is a 1998 Dodge 1-ton chassis (98,810 miles) with an arial bucket package mounted on a flat bed. The bucket has a reach of 26 feet high and 19 feet to the side of the unit, causing personnel to unsafely stretch outside of the bucket to perform some tasks. The platform does not utilize an outrigger system, so the platform is not stabile when in use (generally when working to the side of the platform) and can be unsafe to use when having to work in storms and windy conditions. The current platform is not insulated for use around electricity, however, most of the work in the bucket truck is with electrical devices and around electrical wires.

The new unit that we would like to purchase is mounted on a 1.5-ton chassis, and the bucket package is mounted on a utility bed. The bucket has a reach of 41 feet high and 30 feet to the side of the truck, which will allow the crew to stay completely inside the bucket to perform all their current tasks. This platform utilizes an outrigger system to stabilize the platform and level the truck, making it safer for working out to the side of the platform and in storms and windy conditions. The new unit is properly insulated for use around electricity, and it has a dual bucket setup to allow for assistance while in the air. The cost of this truck is $162,481.00 and will take 200-240 days for delivery. ($150,000.00 Budgeted)

Vacuum Street Sweeper

The Street Division currently uses a 2012 Elgin Pelican mechanical sweeper (5900 hours), as one of 2 street sweeping units. Both sweepers are used 5 days per week, because street sweeping is part of our Stormwater Plan. The Pelican utilizes a hydraulic drive system, that does not allow for travel over about 15 mile per hour. This makes work in this piece of equipment very inefficient having to drive the Pelican between the job area and the landfill (where the operator dumps). The sweeper is in the shop for some type of repair every few months, usually due to the hydraulic system. When the hydraulic system breaks on the sweeper it usually results in hydraulic oil leaking out on the roadway, wasting labor in cleanup.

The new machine that we would like to purchase is an Elgin Whirlwind vacuum sweeper, the same as our other existing unit. This sweeper is mounted on a truck chassis, allowing the operator to drive posted speeds to get from the shop to the work area and from the work area to the landfill. The sweeper has an independent engine, so when there are issues with the sweeper, the operator will be able to drive it back to the shop for repairs. The existing Whirlwind is rarely in the shop and has been very reliable. The new unit that we are requesting also has a wandering hose which allows the operator to clean catch basins along the route, which can only be done by Underground Utilities and the Vactor at this time. The cost of the sweeper is $284,902.42, has already been manufactured, and is ready for delivery. ($305,000.00 Budgeted)

Backhoe

The Street Division currently uses a 2000 John Deere 310SE backhoe with 5500 hours. The current piece of equipment is used to for digging out asphalt and subgrade to repair roads, load and haul material, repair water and sewer lines, and push snow when needed. The machine is used in the field 3 to 4 days in the field (on average) and has become very wore. This machine was handed down from Underground Utilities in 2002 when they purchased a new backhoe. The backhoe has a broken seat, worn hoe section, and will not hold a charge unless on a battery maintainer.

The backhoe that we would like to purchase has about 20 more horsepower, a longer reach for digging, and a mechanical pin for easily changing attachment on the rear. The cost of this machine is $112,407.00 and is ready for delivery. ($130,000.00 Budgeted)

AT37/41/48 ME/PE

FOR NEW EQUIPMENT SALES, CALL
800.958.2555
TO SPEAK WITH AN ALTEC REPRESENTATIVE
or visit us online at altec.com

Altec
TELESCOPIC ARTICULATING
AERIAL DEVICE

Altec Industries, Inc.

Quote Number: 1056065
Opportunity Number: 1660268
Sourcewell Contract #: 012418-ALT
Date: 11/19/2021

Quoted for: City of Emporia
Customer Contact:
Phone: / **Email:**
Quoted by: Nick Adcock
Phone: 919-529-3582 / **Email:** nick.adcock@altec.com
Altec Account Manager: **Tim Wilcoxson**

REFERENCE ALTEC MODEL		Sourcewell Price
AT41M	Articulating Telescopic Aerial Device with Material Handling Insulated, 41'	$156,052

(A.) SOURCEWELL OPTIONS ON CONTRACT (Unit)

1	AT41M-AWD	All Wheel Drive	$5,339
2	AT41M-US41P	Non-Material Handling Platform (AT41P)	-$2,143
3			
4			

(A1.) SOURCEWELL OPTIONS ON CONTRACT (General)

1	spot3	FOUR (4) POINT STROBE SYSTEM (LED)	$668
2			
3			
4			
5			
6			
7			
8			
		SOURCEWELL OPTIONS TOTAL:	$159,916

(B.) **OPEN MARKET ITEMS** *(Customer Requested)*

1	UNIT		$0
2	UNIT & HYDRAULIC ACC		$0
3	BODY		$0
4	BODY & CHASSIS ACC		$0
5	ELECTRICAL		$0
6	FINISHING		$0
7	CHASSIS	Custom chassis options	$0
8	OTHER		$0
		OPEN MARKET OPTIONS TOTAL:	$0

SUB-TOTAL FOR UNIT/BODY/CHASSIS: **$159,916**
Delivery to Customer at $2.20 / mile: **$2,565**

TOTAL FOR UNIT/BODY/CHASSIS: **$162,481**

(C.) **ADDITIONAL ITEMS** (items are not included in total above)

1			
2			
3			
4			

Pricing valid for 45 days

NOTES

PAINT COLOR: White to match chassis, unless otherwise specified
WARRANTY: Standard Altec Warranty for Aerials and Derricks - One (1) year parts warranty One (1) year labor warranty Ninety (90) days warranty for travel charges (Mobile Service) Limited Lifetime Structural Warranty. Chassis to include standard warranty, per the manufacturer.
TO ORDER: To order, please contact the Altec Account Manager listed above.
CHASSIS: Per Altec Commercial Standard
DELIVERY: No later than **200-240** days ARO, FOB Customer Location
TERMS: Net 30 days
BEST VALUE: Altec boasts the following "Best Value" features: Altec ISO Grip Controls for Extra Protection, Only Lifetime Warranty on Structural Components in Industry, Largest Service Network in Industry (Domestic and Overseas), Altec SENTRY Web/CD Based Training, Dedicated/Direct Gov't Sales Manager, In-Service Training with Every Order.
TRADE-IN: Please ask your Altec Account Manager for more information
BUILD LOCATION: Creedmoor, N.C

November 19, 2021
Our 92nd Year

Ship To:
CITY OF EMPORIA (KS)
1220 HATCHER
EMPORIA, KS 66801
US

Attn:
Phone: 620-340-6338
Email:

Bill To:
CITY OF EMPORIA (KS)
PO BOX 928
EMPORIA, KS 66801
United States

Altec Quotation Number: 1056065 - 1
Account Manager: Tim B. Wilcoxson
Technical Sales Rep: William Nick Adcock

Item	Description	Qty	Price
	Unit		
1.	Altec Model AT41P Articulating Telescopic Aerial Device with a fiberglass upper boom and fiberglass insulator in the articulating arm and proportional joystick upper controls. Built in accordance to ALTEC's standard specifications and to include the following features:	1	

A. Ground to Bottom of Platform Height: 40.8 feet at 7.3 feet from centerline of rotation (12.45 m at 2.21 m)
B. Working Height: 45.8 feet (13.96 m)
C. Maximum reach to edge of platform with Upper Boom Non- overcenter: 30.1 feet (at 17.3 feet platform height)
D. Upper boom extension: 110 inches
E. Continuous rotation
F. Articulating Arm: Articulation is from -3 to 82 degrees. Insulator provides 19 inches of isolation.
G. Compensation System: By raising the articulating arm only, the telescopic boom maintains its relative angle in relation to the ground. The work position is achieved through a single function operation.
H. Upper Boom: Articulation is from -25 to 85 degrees. The fiberglass section provides a minimum of 10.9 inches of isolation in the upper boom (when retracted and 42.3 inches when extended).
I. Platform leveling is achieved by a hydraulic master-slave leveling system. This lifetime system is very low maintenance.
J. The dielectrically tested, insulating upper control system includes the following boom tip components that can provide an additional layer of secondary electrical contact protection.
Control Handle: A single handle controller incorporating high electrical resistance components that is dielectrically tested to 40 kV AC with no more than 400 microampers of leakage. The control handle is green in color to differentiate it from other non-tested controllers. The handle also includes an interlock guard that reduces the potential for inadvertent boom operation.
Auxiliary Control Covers: Non-tested blue silicon covers for auxiliary controls.
Control Console: Non-tested non-metallic control console plate.
Boom Tip Covers: Non-tested non-metallic boom tip covers. The covers are not

Item	Description	Qty	Price
	dielectrically tested, but they may provide some protection against electrical hazards.		
	K. Hydraulic system: Open center (full pressure), maximum flow 6 GPM, maximum operating pressure 3,000.		
	L. Dielectric rating: Category C, 46 kV and below		
	M. Unit is painted with a powder coat paint process which provides a finish-painted surface that is highly resistant to chipping, scratching, abrasion and corrosion. Paint is electrostatically applied to the inside as well as outside of fabricated parts then high temperature cured prior to assembly ensuring maximum coverage and protection.		
	N. Manuals: Two (2) Operator's and two (2) Maintenance/ Parts manuals containing instructional markings indicating hazards inherent in the operation of an aerial device.		
	O. Unit meets or exceeds ANSI 92.2 standards.		
2.	Pedestal	1	
3.	Single 2-Man Platform, Fiberglass, 24" x 48" x 42", End Mount, 180 Degree Rotation.	1	
4.	Platform Mounted Single Handle Controls	1	
5.	No Jib/Winch	1	
6.	One (1) Platform Step - located on the side of the platform nearest the elbow in the stowed position	1	
7.	Platform Cover - soft vinyl, 24 x 48 inches (610 x 1219 mm)	1	
8.	Platform Liner - for two-man fiberglass platform, 24 x 48 x 42 inches (610 x 1219 x 1067 mm), 50 kV rating (minimum)	1	
9.	Hydraulic Tool Circuit at Platform: One set of quick disconnect couplings at the boom tip for open center tools.	1	
10.	Engine Start/Stop & Secondary Stowage System: 12 VDC powered motor and pump assembly for temporary operation of the unit in a situation wherein the primary hydraulic source fails. Electric motor is powered by the chassis battery. This feature allows the operator to completely stow the booms, platform, and outriggers. Secondary Stowage & Start/Stop is activated with an air plunger at the platform or momentary switch at the lower control station and outriggers.	1	
11.	Slip Ring: Required for engine start/stop, secondary stowage system, and throttle control options	1	
12.	Outriggers, Primary, Modified A-Frame With Integrated Subbase, 30"-34" Chassis Height, Electric Interlock, No Valves On Legs, 114" Spread, Fixed Shoe (AT37/41 M/ME/P/PE/S/SE)	1	
13.	Altec Unit Powder Painted White	1	
	Unit & Hydraulic Acc.		
14.	Scuff Pad 24 x 48 No Step For Use With Platform Liner (U&H Acc)	1	
15.	Electric Outrigger Controls for one (1) set of outriggers, drive hydraulic outrigger control	1	

Item	Description	Qty	Price
	valves. Durable weather proof sealed electronic switches mounted in aluminum boxes located at the rear of the unit unless otherwise specified.		
16.	Temperature Sight Gauge (FA Supplied)	1	
17.	15 Gallon Reservoir, Triangular	1	
18.	HVI-22 Hydraulic Oil (Standard)	25	
19.	Standard Pump For PTO	1	
20.	Electric Shifted PTO	1	
21.	Standard Altec PTO/Transmission Functionality for Non-Allison Automatic Transmissions: -PTO will only engage when chassis is in neutral. -If chassis is in gear, and PTO switch is activated, PTO will not engage. Chassis will remain in gear. -Once the chassis is shifted back into gear the PTO will disengage. For some truck configurations the PTO switch must be turned off to allow the transmission to shift into gear.	1	
22.	Standard Parking Brake Machine Interlock: Parking (holding) brake must be set before machine is operable.	1	
	Body		
23.	Altec LGSS-132-84 (81) Low-Side General Service Body With Step:	1	

- **A.** Steel Body
- **B.** Steel Structural Channel Crossmembers And Smooth Floor With Ladder-Style Understructure
- **C.** 132" Body Length
- **D.** 94" Body Width
- **E.** 40" Body Compartment Height
- **F.** 20" Body Compartment Depth
- **G.** 24" From Body Floor To Compartment Tops
- **H.** Finish Paint Entire Body Altec White
- **I.** Undercoat Applied Under The Body
- **J.** 5.5" Drop-In Wooden Cargo Retaining Board At Rear Of Body
- **K.** 5.5" Drop-In Wooden Retaining Board At Top Of Side Access Step
- **L.** Stainless Steel Rotary paddle Latches With Locks
- **M.** Gas Props On All Vertical Doors
- **N.** Chains On All Horizontal Doors
- **O.** Standard Master Body Locking System
- **P.** Hotstick Shelf Extending Full Length Of Body On Streetside
- **Q.** Two (2) Hotstick Brackets Installed On Streetside.
- **R.** One Chock Holder On Each Side of Body With Retaining Lip In Fender Panel
- **S.** 1st Vertical (SS) - 34" W - One (1) Outrigger Housing And Two (2) Adjustable Shelves With Removable Dividers On 4 Inch Centers
- **T.** 2nd Vertical (SS) - 24" W - Two (2) Adjustable Shelves With Removable Dividers On 4 Inch Centers
- **U.** 1st Horizontal (SS) - 50" W - One (1) Fixed Shelf With Removable Dividers On 4 Inch Centers On Bottom of Compartment

Item		Description	Qty	Price
	V.	Rear Vertical (SS) - 24" W - Six (6) Locking Swivel Hooks On An Adjustable Rail (1-4-1)		
	W.	1st Vertical (CS) - 34" W - One (1) Outrigger Housing And Two (2) Adjustable Shelves With Removable Dividers On 4 Inch Centers		
	X.	2nd Vertical (CS) - 24" W - Gripstrut Access Steps With Two (2) Sloped Grab Handles, Vented Battery Storage		
	Y.	1st Horizontal (CS) - 50" W - One (1) Adjustable Shelf With Removable Dividers On 4 Inch Centers And One (1) Fixed Shelf With Removable Dividers On 4 Inch Centers On Bottom Of Compartment		
	Z.	Rear Vertical (CS) - 24" W - Six (6) Locking Swivel Hooks On An Adjustable Rail (1-4-1)		
	AA.	Body Floor Cut-Out For AT41M/ME/P/PE Aerial Device Near Front Of Body		
	AB.	Steel Tailshelf, 29" L x 94" W, With Rear Cross Storage And Drop Down Doors		
		Body and Chassis Accessories		
24.		Set of Safety Chain Eye Bolts	1	
25.		Combination 2 Ball (10 000 LB MGTW) and Pintle Hitch (16 000 LB MGTW), Safety Chain Eye Bolts	1	
26.		Driveaway Safety Kit	1	
27.		Rigid Step Mounted Beneath Side Access Steps (Installed To Extend Approx. 2" Outward)	1	
		CS 2nd vertical		
28.		Boom Rest for a Telescopic Unit (Located in Cargo Area), Manual Boom Latch	1	
29.		Manual Boom Stow Securing System Installed on Boom Rest	1	
30.		Platform Rest, Rigid with Rubber Tube	1	
31.		Wood Outrigger Pad 19 x 19 x 2.5 with Rope Handle	2	
32.		Outrigger Pad Holder, 20 L x 20 W x 5 H Fits 19.5 x 19.5 x 4 and Smaller Pads Bolt-On Bottom, Washout Holes with 3/4 Inch Lip Retainer, Steel	2	
33.		Pendulum Retainers For Outrigger Pad Holders	2	
34.		Wheel Chocks Rubber with Metal Hairpin Handle 9.75 L x 7.75 W x 5 H (Pair) (Altec Preferred)	1	
35.		Mud Flaps with Altec Logo (Pair)	1	
36.		Safety Harness and 4.5 Ft Lanyard (Fits Medium to Xlarge)	1	
37.		Slope Indicator Assembly for Machine with Outrigger	1	
38.		Vinyl Manual Pouch for Storage of All Operator and Parts Manuals	1	
		Electrical Accessories		
39.		Lights And Reflectors In Accordance With FMVSS 108 (Complete LED)	1	

Item	Description	Qty	Price
40.	Strobe Beacon, Amber, LED, With Brush Guard (Tecniq #K10-AAAD-1), Class II (Permit May Be Required)	2	
	Installed On Post At Front Of Body, One(1) Each Side		
41.	4-Corner Strobes, Amber, LED, Two (2) Surface Mounted Lights In Grille, Two (2) Round Lights At Rear, Class II (Permit May Be Required)	1	
42.	Strobe Lights Wired Battery Hot	1	
43.	Dual Tone Backup Alarm With Outrigger Motion Alarm	1	
44.	PTO Hour Meter, Digital, With 10 000 Hour Display	1	
45.	Trailer Receptacle, 6-Way (Pin Type) Installed At Rear	1	
46.	Upfitter Switches, Ford (Supplied with Chassis)	1	
47.	Power Distribution Module (PDM-6) is a compact self-contained electronic system that provides a standardized interface with the chassis electrical system. (Includes Operator's Manual)	1	
48.	Install Secondary Stowage and Remote Start/Stop System in Final Assembly	1	
49.	Install Outrigger Interlock System In Final Assembly	1	
50.	Heavy Duty Secondary Stowage Pump (Supplied By Final Assembly)	1	
51.	PTO Indicator Light, Installed In Cab	1	
	Finishing Details		
52.	Front and Rear Frame Mounted Components and Under Body Mounted Components Will Be Painted Black DEPS 005 DEPS 095 (Includes Non OEM Front Bumpers and Cabguards)	1	
53.	Powder Coat Unit Altec White	1	
54.	Apply Non-Skid Coating (Black) to All Walking Surfaces DEPS 057	1	
55.	Safety and Instructional Decals English	1	
56.	Vehicle Height Placard Installed In Cab DEPS 002	1	
57.	HVI-22 Hydraulic Oil Placard	1	
58.	Dielectric Test Unit According to ANSI Requirements	1	
59.	Stability Test Unit According to ANSI Requirements	1	
60.	Focus Factory Build	1	
61.	Delivery Of Completed Unit	1	
62.	Inbound Freight	1	

Item	Description	Qty	Price
63.	As Built Electrical and Hydraulic Schematics to be Included In the Manual Pouch (Deps 024)	1	
64.	Completed Test Forms To Be Included In The Manual Pouch: -Stability Test Form -Dielectric Test Form (For Insulated Units)	1	
65.	Quick Turnaround	1	
66.	Stock Unit	1	
	Chassis		
67.	Altec Supplied Chassis	1	
68.	Chassis	1	
69.	2022 Model Year	1	
70.	Ford F550	1	
71.	4x4	1	
72.	84 Clear CA (Round To Next Whole Number)	1	
73.	Regular Cab	1	
74.	Chassis Cab	1	
75.	Dual Rear Wheel	1	
76.	Chassis Color - White	1	
77.	Chassis Wheelbase Length - 169	1	
78.	Ford 6.7L Power Stroke Diesel	1	
79.	Diesel	1	
80.	Ford Torqshift 10-Speed Automatic Transmission (w/PTO Provision)	1	
81.	GVWR 19,500 LBS	1	
82.	7,500 LBS Front GAWR	1	
83.	Spring Suspension	1	
84.	14,706 LBS Rear GAWR	1	
85.	Hydraulic Brakes	1	
86.	Park Brake In Rear Wheels	1	
87.	Ford E/F250-550 Single Horizontal Right Side Exhaust	1	

Item	Description	Qty	Price
88.	63C - Aft Axle Frame Extension	1	
89.	98R - Operator Commanded Regeneration (OCR)	1	
90.	No Idle Engine Shut-Down Required	1	
91.	50-State Emissions	1	
92.	No Clean Idle Certification Required	1	
93.	Ford 40 Gallon Fuel Tank (Rear)	1	
94.	Ford 7.2 Gallon DEF Tank (Mid Mount)	1	
95.	AM/FM Radio	1	
96.	Bluetooth	1	
97.	Air Conditioning	1	
98.	Cruise Control	1	
99.	Keyless Entry	1	
100.	Power Door Locks	1	
101.	Power Windows	1	
102.	Tilt Steering Wheel	1	
103.	Block Heater	1	
104.	Snow Plow Package	1	
105.	Trailer Brake Controller (Factory Installed)	1	
	Additional Pricing		
106.	Standard Altec Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, limited lifetime structural warranty	1	

Unit / Body / Chassis Total	**162,481.00**
FET Total	**0.00**
Total	**162,481.00**

Altec Industries, Inc.

BY _____

We Wish To Thank You For Giving Us The Pleasure
And Opportunity of Serving You

UTILITY EQUIPMENT AND BODIES SINCE 1929

William Nick Adcock

Notes:

1 Chassis pricing should be considered budgetary only and is subject to change when specific model year pricing becomes available from the OEM. Additionally, the chassis model year is subject to change based on availability at time of order.

2 Altec takes pride in offering solutions that provide a safer work environment for our customers. In an effort to focus on safety, we would encourage you to consider the following items:

Outrigger pads (When Applicable)
Fall Protection System
Fire extinguisher/DOT kit
Platform Liner (When Applicable)
Altec Sentry Training
Wheel Chocks

The aforementioned equipment can be offered in our new equipment quotations. If you find that any of these items have not been listed as priced options with an item number in the body of your quotation and are required by your company, we would encourage you to contact your Altec Account Manager and have an updated quote version sent to you. These options must be listed with an item number in the quotation for them to be supplied by Altec.

3 The final fully loaded weight of the truck and structural ratings of the hitch assembly may reduce the towing capacity and the vertical load capacity of the finished truck. These capacities may not match the ratings of the chassis or hitch.

4 Altec Extended Warranty Option:

An Altec Extended Warranty is an extension of Altec's Limited Warranty and protects you from the repair cost associated with defects of materials and workmanship after the standard Limited Warranty expires.

Altec offers many types of coverages and coverage packages. Ask your Altec account manager for details. Quotes are available upon request.

5 Unless otherwise noted, all measurements used in this quote are based on a 40 inch (1016mm) chassis frame height and standard cab height for standard configurations.

6 Altec Standard Warranty:

One (1) year parts warranty.

One (1) year labor warranty.

Ninety (90) days warranty for travel charges.

Warranty on structural integrity of the following major components is to be warranted for so long as the initial purchaser owns the product: Booms, boom articulation links, hydraulic cylinder structures, outrigger weldments, pedestals, subbases and turntables.

Altec is to supply a self-directed, computer based training (CBT) program. This program will provide basic instruction in the safe operation of this aerial device. This program will also include and explain ANSI and OSHA requirements related to the proper use and operation of this unit.

Altec offers its standard limited warranty with the Altec supplied components which make up the Altec Unit

and its installation, but expressly disclaims any and all warranties, liabilities, and responsibilities, including any implied warranties of fitness for a particular purpose and merchantability, for any customer supplied parts

Altec designs and manufactures to applicable Federal Motor Vehicle Safety and DOT standards

7 F.O.B. - Customer Site

8 Altec values your data privacy. The Altec Family of Companies (including Altec, Inc., and it's subsidiaries) may collect telematics data from the equipment you own. Please review Altec's Equipment Data Privacy Notice on www.altec.com for more information. By purchasing equipment from Altec, you consent to Altec's right to collect and use such data.

9 Changes made to this order may affect whether or not this vehicle is subject to F.E.T. A review will be made at the time of invoicing and any applicable F.E.T. will be added to the invoice amount.

10 Price does not reflect any local, state or Federal Excise Taxes (F.E.T). The quote also does not reflect any local title or licensing fees. All appropriate taxes will be added to the final price in accordance with regulations in effect at time of invoicing.

11 Interest charge of 1/2% per month to be added for late payment.

12 Any payment made by a credit card may be subject to a surcharge fee.

13 Estimated Delivery: 180-220 days after receipt of order PROVIDING:
A. Customer supplied chassis is received a minimum of sixty (60) days before scheduled delivery.
B. Customer approval drawings are returned by requested date.
C. Customer supplied accessories are received by date necessary for compliance with scheduled delivery.
D. Customer expectations are accurately captured prior to major components being ordered (body, chassis) and line set date. Unexpected additions or changes made after this time or at a customer inspection will delay the delivery of the vehicle.

Estimated Delivery is based on information at time of quote and is subject to change.

Altec reserves the right to change suppliers in order to meet customer delivery requirements, unless specifically identified, by the customer, during the quote and or ordering process.

14 Trade-in offer is conditional upon equipment being maintained to DOT (Department of Transportation) operating and safety standards and remaining in compliance of DOT until arrival at an Altec Facility. This will include, but is not limited to engine, tires, lights, brakes, glass, etc. All equipment, i.e., jibs, winches, pintle hooks, trailer connectors, etc., are to remain with unit unless otherwise agreed upon in writing by both parties. ALTEC Industries reserves the right to re-negotiate its trade-in offer if these conditions are not met.

All reasonable and necessary expenses required of ALTEC Industries to execute transportation of the trade-in will be invoiced to the customer for payment if these conditions are not met to maintain DOT standards.

Customer may exercise the option to rescind this agreement in writing within sixty (60) days after receipt of purchase order. After that time ALTEC Industries will expect receipt of trade-in vehicle upon delivery of new equipment as part of the terms of the purchase order unless other arrangements have been made.

15 This quotation is valid until JAN 02, 2022. After this date, please contact Altec Industries, Inc. for a possible extension.

16 After the initial warranty period, Altec Industries, Inc. offers mobile service units, in-shop service and same day parts shipments on most parts from service locations nationwide at an additional competitive labor and parts rate. Call 877-GO-ALTEC for all of your Parts and Service needs.

17	FINANCING AVAILABLE: Please contact Altec Capital at (888) 408-8148 or email finance@altec.com for more information.
18	Please direct all questions to Tim B. Wilcoxson at (919) 528-2535

JOHN DEERE

Selling Equipment

MURPHY TRACTOR & EQUIPMENT CO.

Quote Id: 25656933 **Customer:** CITY OF EMPORIA

2021 JOHN DEERE 310SL HL BACKHOE LOADER - 1T0310HLKMF395842

Equipment Notes: In Stock, At Training Center.
Hours: 19
Stock Number: 195096

Code	Description	Qty
0A81T	2021 JOHN DEERE GP, PILOT, 1 WAY	1
	Standard Options - Per Unit	
170C	JDLINK 5YR TEMP LICENSE 50HR	1
1065	ENGINE FT4	1
2035	CAB STANDARD	1
2401	DECAL & PACKET ENGLISH	1
3095	AXLE MFWD W/LIM SLIP & AUTOSHIFT	1
4781	TIRE FS19.5L-24FS12.5/80-18	1
5285	CONTROL PILOT	1
6020	DIPPER EXTENDABLE	1
6220	HYD REAR AUX 1WAY FLOW	1
7025	LDR SINGLE LEVER, NO AUX	1
7645	LDR BKT 1.3CY LG LIP BKT 92"	1
8485	COUNTERWEIGHT 1250LB.	1
8685	BATTERY DUAL W/JUMP POST	1
9045	CHROME EXHAUST	1
9060	MIRRORS INTERIOR	1
9080	HEATER ENGINE COOLANT 110V	1
9115	RIDE CONTROL	1
9120	HEAVY DUTY GRILL	1
9505	GUARD FULL MFWD	1
9515	FLUID SAMPLING	1
9916	RADIO PREMIUM PACKAGE	1
9919	SUN VISOR	1
9947	HEAVY DUTY STABILIZER PAD	1
9970	SEAT AIR SUSP CLOTH W/HEAT	1
	Dealer Attachments	
AT343629	Coupler, Universal - Pin-grabber style (non-hydraulic)	1
205878	JOHN DEERE AT437616 BKT,36" DITCHING 12.5CUFT Stock Number:205878	1
	Service Agreements	

KEY EQUIPMENT & SUPPLY CO

Presents a Proposal Summary

of the

ELGIN
Built for clean. Backed for life.

City of Emporia
Address:220 Hatcher
Emporia, Kansas 6680
Sourcewell Member #: 137227
Whirlwind MV

Whirlwind MV Pure Vacuum Street Sweeper with Dual Engine and Dual Side Brooms

Steve Williams
Tel: 913-915-8709

- Autolube – Sweeper Only
- Heavy Duty Hydraulic Wandering Hose
- Right Hand Hopper Door with Step & Handle
- Quick Disconnect Water Fill
- LED Arrowboard
- Whirlwind MV Service Manual
- John Deer Service Manual

2021 Elgin Whirlwind MV:	$219,960.00
Peterbilt Cabover Chassis:	$116,460.00
Less Sourcewell Discount 122017-FSC-1:	-$6,017.58
PDI, Delivery, and Install Training:	$3,500.00
Instock Discount:	-$9,000.00
Trade in of 2012 Elgin Pelican:	$ -40,000.00
Total Invoice Amount:	**$284,902.42**

Price valid for 30 Days from date of 11/22/2021

Please note: This machine is built and on the ground for immediate delivery. However, it is subject to availability.

It is the intent of the City of Emporia, KS to purchase the above specified Elgin Whirlwind at the listed price. By signing below, this unit will be held pending council approval.

Dean Grant _____ Date _____

Proposal Date: 11/22/2021
Quote Number: 2021-41612
Price List Date: 5/17/2021
P.O. Number:

Payment Terms:

Proposal Notes:

1. Multiple unit orders will be identical to signed proposal. Changes or deviations to any unit of a multiple unit order will require a new signed proposal.
2. Chassis specifications and data codes for customer supplied chassis must be submitted to and approved by Elgin Sweeper Company prior to submittal of customer purchase order
3. All prices quoted are in US Dollars unless otherwise noted.
4. This proposal incorporates, and is subject to, Vactor Manufacturing's standard terms and conditions attached hereto and made a part hereof.

SIGNED BY:

_____ Date: _____

LIMITED WARRANTY

ELGIN SWEEPER COMPANY warrants each new machine manufactured by it against defects in material and workmanship provided the machine is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of twelve (12) months from the date of delivery to the original user-purchaser.

ELGIN SWEEPER COMPANY will cause to be repaired or replaced, as the Company, may elect, any part or part of such machine which the Company's examination discloses to be defective in material or workmanship.

Repairs or replacements are to be made at the selling Elgin distributor's location or at other locations approved by ELGIN SWEEPER COMPANY.

The ELGIN SWEEPER COMPANY warranty shall not apply to:

1. Major components or trade accessories such as but not limited to, trucks, engines, tires or batteries that have a separate warranty by the original manufacturer.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as but not limited to, broom filters, broom wire, shoe runners and rubber deflectors.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by ELGIN SWEEPER COMPANY.
5. Repairs, modifications or alterations without the consent of ELGIN SWEEPER COMPANY which, in the Company's sole judgment, have adversely affected the machine's stability or reliability.
6. Items subjected to misuse, negligence, accident or improper maintenance.

The use in the product of any part other than parts approved by ELGIN SWEEPER COMPANY may invalidate this warranty. ELGIN SWEEPER COMPANY reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty.

Nothing contained in this warranty shall make ELGIN SWEEPER COMPANY liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

TO THE EXTENT LIMITED BY LAW, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND **FITNESS FOR A PARTICULAR PURPOSE.**

This warranty is also in lieu of all other obligations or liabilities on the part of ELGIN SWEEPER COMPANY, including but not limited to, liability for incidental and consequential damages on the part of the Company or the seller.

ELGIN SWEEPER COMPANY makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine.

No person or affiliated company representative is authorized to give any other warranties or to assume any other liability on behalf of ELGIN SWEEPEAR COMPANY in connection with the sale, servicing or repair of any machine manufactured by the Company.

ELGIN SWEEPER COMPANY reserves the right to make design changes or improvements in tis products without imposing any obligation upon itself to change or improve previously manufactured products.

JOHN DEERE

MURPHY TRACTOR & EQUIPMENT CO.

Quote Summary

Prepared For:

CITY OF EMPORIA
PO BOX 928
EMPORIA, KS 66801
Business: 620-343-4283
ACCOUNTPAYABLE@EMPORIA-KANSAS.GOV

Prepared By:

CHRIS CRUM
Murphy Tractor & Equipment
1621 Nw Gage Blvd
Topeka, KS 66618
Phone: 785-233-0556
Mobile: 785-260-5206
ccrum@murphytractor.com

Quote Id: 25656933
Created On: 22 November 2021
Last Modified On: 01 December 2021
Expiration Date: 30 November 2021

Equipment Summary	Qty	Extended
2021 JOHN DEERE 310SL HL BACKHOE LOADER - 1T0310HLKMF395842	1	
John Deere Extended Warranty-60 mo./3,000 hr. Powertrain & Hydraulic Warranty	1	
Equipment Total		**$ 112,407.00**

Quote Summary	
Equipment Total	$ 112,407.00
SubTotal	$ 112,407.00
Total	$ 112,407.00
Balance Due	**$ 112,407.00**

Salesperson : X _____

Accepted By : X _____

JOHN DEERE

Selling Equipment

MURPHY TRACTOR & EQUIPMENT CO.

Quote Id: 25656933 **Customer:** CITY OF EMPORIA

	John Deere Extended Warranty - 60 mo./3,000 hr. Powertrain & Hydraulic Warranty

PRODUCT DESCRIPTION

· 8.0 cu. Yd. Hopper, right and left side brooms, sweeper is powder coated from powder coatings chart 2003/N with powder coated gray undercarriage and includes the standard features listed below.

STANDARD FEATURES

- Alternator, 160 amp
- 74 HP T4Final John Deer Engine
- Backup Alarm, Federal Signal electric
- Blower, Steel with rubber lined housing
- Brooms, hydraulic rotation
- Brooms, Dual with side broom lights for night operation
- Broom Measurement Ruler
- Console, w/rocker switches for all sweep functions, with full gauge package including tachometer, engine hour meter, oil pressure indicator, coolant temperature, voltmeter and fuel lever indicator, water level gauge and warning lights for hopper pressure controls and manual reset circuit breakers
- Doors, access fiberglass doors provide easyservice and maintenance on auxiliary engine,hydraulic and electrical system
- Electronic Throttle, sweep resume/sweep transport/reverse pick-up
- Hopper rear door, hydraulically opened/closed andlocked/unlocked with external controls.
- Hose, hydrant fill, 16' 8" with coupling
- In-Cab Hopper Dump
- LED Clearance Lights
- Lights, rear clearance and rear identification
- Sweeper operators manual
- Sweeper parts manual
- Suction Nozzles pick-up area 174 square inch with 32 inch suction nozzle
- Spray nozzles, seven (7) in the suction nozzle, three (3) at each side broom, (4) in the extension broom
- Sweep resume
- Hydraulic Oil Cooler
- Water tanks, Rust proof polyethylene, 335 gallon total capcity.
- AM/FM/WB Radio w/ CD Player, Bluetooth and Microphone, USB, Front and Rear Aux. Inputs
- Sweeper Painted Standard White
- Chassis Painted Standard White
- Red Logo
- 1 Year Parts and Labor Warranty

ADDITIONAL FEATURES

- 2021 Peterbuilt Dual Steer cab-over chassis
- Mirrors, West Coast type with 12" convex inserts, one each side
- LED Stop/Tail/Turn
- Idle down, no Water
- Variable Speed - Dual Sidebrooms
- RH & LH Side Broom tilt
- Auto Shutter Right Hand
- Auto Shutter Left Hand
- Auxiliary Hydraulic Pump
- Tubo II Pre-Cleaner

EMPORIA
City of Emporia

TO: City Commissioners

FROM: Janet Harrouff

DATE: December 3, 2021

RE: 2022 Utility Rate Increase

During the 2022 budget process a rate increase was proposed. Following is the justification for the increases proposed.

Water Fund – This fund is stable however a $15,000,000 proposed loan from the state water department will increase the future debt payments which needs to be addressed in the rates. The state water loan has an option of repayment over 20 or 30 years. Attached are financial reports for a 20 year and a 30-year loan along with rate increase options of a $1 per month per meter and consumption increase of 2%.

The assumptions are;

1) Personnel expenses increased 4% each year; 2 1/2 merit, KPERS & KP&F, health insurance increases
2) Expenses increase 1 ½ percent per year
3) Capital is set at $300,000 per year
4) $350,000 from Industrial Development sales tax fund for the water tower and mains ends in 2029
5) Debt payments begin in 2024 for the full loan amount
6) Administration fee is kept at $1,100,000

Wastewater Fund - This fund is stable but the debt payment for the waste water treatment plant will be increasing $250,000 in 2022 as well as additional debt issuance in the next couple of years. During the 2018 budget process, it was proposed rates increase 10% in 2018, 15% in 2019, 10% in 2020, and 5% in 2021. To date the rates have been increased 10% in 2018, 10% in 2019, 10% in 2020.

Rate increase options of $2 per meter per month and consumption increase of 5% and 8% are attached.

The assumptions are;

1) Personnel expenses increased 4% each year; 2 1/2 merit, KPERS & KP&F, health insurance increases
2) Expenses increase 1 ½ percent per year
3) Capital is set at $400,000 per year
4) Administration fee is set at $610,000

Staff is recommending a water rate increase of $1 per meter per month, utilizing a 30 year debt repayment and a waste water rate increase of $2 per meter per month and a 5% consumption.

City of Emporia, Kansas 12/03/2021

2022 Rate Increase

12/2/21 4:04 PM 20 year loan Base

Revenue Detail and Expenditure Summary
Cash Basis

WATERWORKS FUND

	2020 (Actual)	Estimated 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,036,236	$2,620,859	$3,679,998	$4,053,808	$4,526,825	$4,010,955	$3,447,032	$2,796,281	$2,244,575	$1,608,559	$1,191,037	$565,770
REVENUE												
Sale of Water	$6,266,137	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900
Service Charge	$93,954	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Penalties	$89,198	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000
Sale of Salvage	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Reimbursed Expense	$2,641	$8,200	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000
Interest on Investment	$17,213	$2,000	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300
Sale of Bonds	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Trf from Industrial Development S	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$0	$0
B&I to make bond payment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating Revenue	$1,274,758	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Miscellaneous	$11,302	$1,360	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350
TOTAL RECEIPTS	$8,105,202	$7,585,460	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,228,550	$7,228,550
EXPENDITURES												
Personnel Services	$838,409	$872,262	$935,665	$972,150	$1,010,095	$1,049,557	$1,090,598	$1,133,280	$1,177,670	$1,223,836	$1,271,848	$1,321,780
Vacancy	$0	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)
Maintenance & Repair	$605,406	$586,650	$644,550	$647,621	$652,696	$657,771	$667,637	$677,652	$687,817	$698,134	$708,606	$719,235
Commodities	$888,377	$897,200	$903,000	$912,181	$912,181	$912,181	$925,863	$939,751	$953,847	$968,155	$982,677	$997,418
Other Charges	$173,046	$220,970	$217,070	$218,804	$220,326	$221,849	$225,176	$228,554	$231,982	$235,462	$238,994	$242,579
Capital Outlay	$539,043	$160,000	$555,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000
Debt Payment	$1,224,728	$1,451,698	$1,717,739	$1,794,589	$2,728,276	$2,712,476	$2,713,326	$2,525,987	$2,519,612	$2,207,962	$1,970,000	$1,648,200
Stock	($37,161)	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000
Transfer to Project Account	$1,274,758	$43,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$446,426	$507,350	$502,850	$521,050	$531,200	$539,168	$547,256	$555,465	$563,797	$572,254	$580,837	$589,550
Communications	$26,222	$45,100	$45,100	$45,777	$45,777	$46,463	$47,160	$47,867	$48,586	$49,314	$50,054	$50,805
Travel & Training	$2,668	$13,750	$13,450	$13,652	$13,652	$13,857	$14,064	$14,275	$14,489	$14,707	$14,927	$15,151
Contractual Services	$655,414	$587,900	$585,700	$595,095	$595,602	$604,536	$613,604	$622,808	$632,150	$641,633	$651,257	$661,026
Administrative Fee 17%, 16%	$1,064,487	$1,155,824	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000
Outstanding PO's												
Change in Liabilities	($181,240)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TOTAL EXPENDITURES	$7,520,580	$6,526,320	$7,204,740	$7,105,533	$8,094,420	$8,142,473	$8,229,301	$8,130,256	$8,214,566	$7,996,072	$7,853,817	$7,630,360
NET CHANGE IN CASH	$584,622	$1,059,140	$373,810	$473,017	($515,870)	($563,923)	($650,751)	($551,706)	($636,016)	($417,522)	($625,267)	($401,810)
ENDING CASH	**$2,620,859**	**$3,679,998**	**$4,053,808**	**$4,526,825**	**$4,010,955**	**$3,447,032**	**$2,796,281**	**$2,244,575**	**$1,608,559**	**$1,191,037**	**$565,770**	**$163,961**
Base for reserve calculation	$6,981,537	$6,366,320	$6,649,740	$6,805,533	$7,794,420	$7,842,473	$7,929,301	$7,830,256	$7,914,566	$7,696,072	$7,553,817	$7,330,360
20% reserve amount	$1,396,307	$1,273,264	$1,329,948	$1,361,107	$1,558,884	$1,568,495	($2,713,326)	($2,525,987)	($2,519,612)	($2,207,962)	($1,970,000)	($1,648,200)
Amount over 20% reserve	$1,224,551	$2,406,734	$2,723,860	$3,165,718	$2,452,071	$1,878,537	$5,509,607	$4,770,562	$4,128,171	$3,398,999	$2,535,770	$1,812,161
Percent	37.54%	57.80%	60.96%	66.52%	51.46%	43.95%	35.27%	28.67%	20.32%	15.48%	7.49%	2.24%

City of Emporia, Kansas 12/03/2021

2022 Rate Increase

12/2/21 4:06 PM

20 year loan $1 meter

Revenue Detail and Expenditure Summary
Cash Basis

WATERWORKS FUND

	2020 (Actual)	Estimated 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,036,236	$2,620,859	$3,679,998	$4,161,808	$4,742,825	$4,334,955	$3,879,032	$3,336,281	$2,892,575	$2,364,559	$2,055,037	$1,537,770
REVENUE												
Sale of Water	$6,266,137	$7,038,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900
Service Charge	$93,954	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Penalties	$89,198	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000
Sale of Salvage	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Reimbursed Expense	$2,641	$8,200	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000
Interest on Investment	$17,213	$2,000	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300
Sale of Bonds	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Trf from Industrial Development S	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$0	$0
B&I to make bond payment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating Revenue	$1,274,758	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Miscellaneous	$11,302	$1,360	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350
TOTAL RECEIPTS	$8,105,202	$7,585,460	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,336,550	$7,336,550
EXPENDITURES												
Personnel Services	$838,409	$872,262	$935,665	$972,150	$1,010,095	$1,049,557	$1,090,598	$1,133,280	$1,177,670	$1,223,836	$1,271,848	$1,321,780
Vacancy	$0	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)
Maintenance & Repair	$605,406	$586,650	$644,550	$647,621	$652,696	$657,771	$667,637	$677,652	$687,817	$698,134	$708,606	$719,235
Commodities	$888,377	$897,200	$903,000	$912,181	$912,181	$912,181	$925,863	$939,751	$953,847	$968,155	$982,677	$997,418
Other Charges	$173,046	$220,970	$217,070	$218,804	$220,326	$221,849	$225,176	$228,554	$231,982	$235,462	$238,994	$242,579
Capital Outlay	$539,043	$160,000	$555,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000
Debt Payment	$1,224,728	$1,451,698	$1,717,739	$1,794,589	$2,728,276	$2,712,476	$2,713,326	$2,525,987	$2,519,612	$2,207,962	$1,970,000	$1,648,200
Stock	($37,161)	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000
Transfer to Project Account	$1,274,758	$43,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$446,426	$507,350	$502,850	$521,050	$531,200	$539,168	$547,256	$555,465	$563,797	$572,254	$580,837	$589,550
Communications	$26,222	$45,100	$45,100	$45,777	$45,777	$46,463	$47,160	$47,867	$48,586	$49,314	$50,054	$50,805
Travel & Training	$2,668	$13,750	$13,450	$13,652	$13,652	$13,857	$14,064	$14,275	$14,489	$14,707	$14,927	$15,151
Contractual Services	$655,414	$587,900	$585,700	$595,095	$595,602	$604,536	$613,604	$622,808	$632,150	$641,633	$651,257	$661,026
Administrative Fee 17%, 16%	$1,064,487	$1,155,824	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000
Outstanding PO's												
Change in Liabilities	($181,240)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TOTAL EXPENDITURES	$7,520,580	$6,526,320	$7,204,740	$7,105,533	$8,094,420	$8,142,473	$8,229,301	$8,130,256	$8,214,566	$7,996,072	$7,853,817	$7,630,360
NET CHANGE IN CASH	$584,622	$1,059,140	$481,810	$581,017	($407,870)	($455,923)	($542,751)	($443,706)	($528,016)	($309,522)	($517,267)	($293,810)
ENDING CASH	**$2,620,859**	**$3,679,998**	**$4,161,808**	**$4,742,825**	**$4,334,955**	**$3,879,032**	**$3,336,281**	**$2,892,575**	**$2,364,559**	**$2,055,037**	**$1,537,770**	**$1,243,961**
Base for reserve calculation	$6,981,537	$6,366,320	$6,649,740	$6,805,533	$7,794,420	$7,842,473	$7,929,301	$7,830,256	$7,914,566	$7,696,072	$7,553,817	$7,330,360
20% reserve amount	$1,396,307	$1,273,264	$1,329,948	$1,361,107	$1,558,884	$1,568,495	($2,713,326)	($2,525,987)	($2,519,612)	($2,207,962)	($1,970,000)	($1,648,200)
Amount over 20% reserve	$1,224,551	$2,406,734	$2,831,860	$3,381,718	$2,776,071	$2,310,537	$6,049,607	$5,418,562	$4,884,171	$4,262,999	$3,507,770	$2,892,161
Percent	37.54%	57.80%	62.59%	69.69%	55.62%	49.46%	42.08%	36.94%	29.88%	26.70%	20.36%	16.97%

City of Emporia, Kansas 12/03/2021

2022 Rate Increase

12/2/21 4:08 PM

20 year loan $1 meter &2% consumption

Revenue Detail and Expenditure Summary
Cash Basis

WATERWORKS FUND

	2020 (Actual)	Estimated 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,036,236	$2,620,859	$3,679,998	$4,234,653	$4,888,515	$4,553,490	$4,170,412	$3,700,506	$3,329,645	$2,874,474	$2,637,797	$2,193,375
REVENUE												
Sale of Water	$6,266,137	$7,038,900	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745
Service Charge	$93,954	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Penalties	$89,198	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000
Sale of Salvage	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Reimbursed Expense	$2,641	$8,200	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000
Interest on Investment	$17,213	$2,000	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300
Sale of Bonds	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Trf from Industrial Development S	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$0	$0
B&I to make bond payment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating Revenue	$1,274,758	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Miscellaneous	$11,302	$1,360	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350
TOTAL RECEIPTS	$8,105,202	$7,585,460	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,409,395	$7,409,395
EXPENDITURES												
Personnel Services	$838,409	$872,262	$935,665	$972,150	$1,010,095	$1,049,557	$1,090,598	$1,133,280	$1,177,670	$1,223,836	$1,271,848	$1,321,780
Vacancy	$0	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)
Maintenance & Repair	$605,406	$586,650	$644,550	$647,621	$652,696	$657,771	$667,637	$677,652	$687,817	$698,134	$708,606	$719,235
Commodities	$888,377	$897,200	$903,000	$912,181	$912,181	$912,181	$925,863	$939,751	$953,847	$968,155	$982,677	$997,418
Other Charges	$173,046	$220,970	$217,070	$218,804	$220,326	$221,849	$225,176	$228,554	$231,982	$235,462	$238,994	$242,579
Capital Outlay	$539,043	$160,000	$555,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000
Debt Payment	$1,224,728	$1,451,698	$1,717,739	$1,794,589	$2,728,276	$2,712,476	$2,713,326	$2,525,987	$2,519,612	$2,207,962	$1,970,000	$1,648,200
Stock	($37,161)	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000
Transfer to Project Account	$1,274,758	$43,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$446,426	$507,350	$502,850	$521,050	$531,200	$539,168	$547,256	$555,465	$563,797	$572,254	$580,837	$589,550
Communications	$26,222	$45,100	$45,100	$45,777	$45,777	$46,463	$47,160	$47,867	$48,586	$49,314	$50,054	$50,805
Travel & Training	$2,668	$13,750	$13,450	$13,652	$13,652	$13,857	$14,064	$14,275	$14,489	$14,707	$14,927	$15,151
Contractual Services	$655,414	$587,900	$585,700	$595,095	$595,602	$604,536	$613,604	$622,808	$632,150	$641,633	$651,257	$661,026
Administrative Fee 17%, 16%	$1,064,487	$1,155,824	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000
Outstanding PO's												
Change in Liabilities	($181,240)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TOTAL EXPENDITURES	$7,520,580	$6,526,320	$7,204,740	$7,105,533	$8,094,420	$8,142,473	$8,229,301	$8,130,256	$8,214,566	$7,996,072	$7,853,817	$7,630,360
NET CHANGE IN CASH	$584,622	$1,059,140	$554,655	$653,862	($335,025)	($383,078)	($469,906)	($370,861)	($455,171)	($236,677)	($444,422)	($220,965)
ENDING CASH	**$2,620,859**	**$3,679,998**	**$4,234,653**	**$4,888,515**	**$4,553,490**	**$4,170,412**	**$3,700,506**	**$3,329,645**	**$2,874,474**	**$2,637,797**	**$2,193,375**	**$1,972,411**
Base for reserve calculation	$6,981,537	$6,366,320	$6,649,740	$6,805,533	$7,794,420	$7,842,473	$7,929,301	$7,830,256	$7,914,566	$7,696,072	$7,553,817	$7,330,360
20% reserve amount	$1,396,307	$1,273,264	$1,329,948	$1,361,107	$1,558,884	$1,568,495	($2,713,326)	($2,525,987)	($2,519,612)	($2,207,962)	($1,970,000)	($1,648,200)
Amount over 20% reserve	$1,224,551	$2,406,734	$2,904,705	$3,527,408	$2,994,606	$2,601,917	$6,413,832	$5,855,632	$5,394,086	$4,845,759	$4,163,375	$3,620,611
Percent	37.54%	57.80%	63.68%	71.83%	58.42%	53.18%	46.67%	42.52%	36.32%	34.27%	29.04%	26.91%

City of Emporia, Kansas 12/03/2021

2022 Rate Increase

12/2/21 4:13 PM 30 year loan Base

Revenue Detail and Expenditure Summary

Cash Basis

WATERWORKS FUND

	2020 (Actual)	Estimated 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,036,236	$2,620,859	$3,679,998	$4,053,808	$4,526,825	$4,248,917	$3,922,956	$3,510,167	$3,196,423	$2,798,369	$2,519,484	$1,894,217
REVENUE												
Sale of Water	$6,266,137	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900	$7,038,900
Service Charge	$93,954	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Penalties	$89,198	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000
Sale of Salvage	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Reimbursed Expense	$2,641	$8,200	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000
Interest on Investment	$17,213	$2,000	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300
Sale of Bonds	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Trf from Industrial Development S	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$0	$0
B&I to make bond payment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating Revenue	$1,274,758	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Miscellaneous	$11,302	$1,360	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350
TOTAL RECEIPTS	$8,105,202	$7,585,460	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,578,550	$7,228,550	$7,228,550
EXPENDITURES												
Personnel Services	$838,409	$872,262	$935,665	$972,150	$1,010,095	$1,049,557	$1,090,598	$1,133,280	$1,177,670	$1,223,836	$1,271,848	$1,321,780
Vacancy	$0	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)
Maintenance & Repair	$605,406	$586,650	$644,550	$647,621	$652,696	$657,771	$667,637	$677,652	$687,817	$698,134	$708,606	$719,235
Commodities	$888,377	$897,200	$903,000	$912,181	$912,181	$912,181	$925,863	$939,751	$953,847	$968,155	$982,677	$997,418
Other Charges	$173,046	$220,970	$217,070	$218,804	$220,326	$221,849	$225,176	$228,554	$231,982	$235,462	$238,994	$242,579
Capital Outlay	$539,043	$160,000	$555,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000
Debt Payment	$1,224,728	$1,451,698	$1,717,739	$1,794,589	$2,490,314	$2,474,514	$2,475,364	$2,288,025	$2,281,650	$2,069,325	$1,970,000	$1,642,800
Stock	($37,161)	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000
Transfer to Project Account	$1,274,758	$43,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$446,426	$507,350	$502,850	$521,050	$531,200	$539,168	$547,256	$555,465	$563,797	$572,254	$580,837	$589,550
Communications	$26,222	$45,100	$45,100	$45,777	$45,777	$46,463	$47,160	$47,867	$48,586	$49,314	$50,054	$50,805
Travel & Training	$2,668	$13,750	$13,450	$13,652	$13,652	$13,857	$14,064	$14,275	$14,489	$14,707	$14,927	$15,151
Contractual Services	$655,414	$587,900	$585,700	$595,095	$595,602	$604,536	$613,604	$622,808	$632,150	$641,633	$651,257	$661,026
Administrative Fee 17%, 16%	$1,064,487	$1,155,824	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000
Outstanding PO's												
Change in Liabilities	($181,240)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TOTAL EXPENDITURES	$7,520,580	$6,526,320	$7,204,740	$7,105,533	$7,856,458	$7,904,511	$7,991,339	$7,892,294	$7,976,604	$7,857,435	$7,853,817	$7,624,960
NET CHANGE IN CASH	$584,622	$1,059,140	$373,810	$473,017	($277,908)	($325,961)	($412,789)	($313,744)	($398,054)	($278,885)	($625,267)	($396,410)
ENDING CASH	**$2,620,859**	**$3,679,998**	**$4,053,808**	**$4,526,825**	**$4,248,917**	**$3,922,956**	**$3,510,167**	**$3,196,423**	**$2,798,369**	**$2,519,484**	**$1,894,217**	**$1,497,808**
Base for reserve calculation	$6,981,537	$6,366,320	$6,649,740	$6,805,533	$7,556,458	$7,604,511	$7,691,339	$7,592,294	$7,676,604	$7,557,435	$7,553,817	$7,324,960
20% reserve amount	$1,396,307	$1,273,264	$1,329,948	$1,361,107	$1,511,292	$1,520,902	($2,475,364)	($2,288,025)	($2,281,650)	($2,069,325)	($1,970,000)	($1,642,800)
Amount over 20% reserve	$1,224,551	$2,406,734	$2,723,860	$3,165,718	$2,737,625	$2,402,054	$5,985,531	$5,484,448	$5,080,019	$4,588,809	$3,864,217	$3,140,608
Percent	37.54%	57.80%	60.96%	66.52%	56.23%	51.59%	45.64%	42.10%	36.45%	33.34%	25.08%	20.45%

City of Emporia, Kansas 12/03/2021

2022 Rate Increase

12/2/21 4:12 PM

30 year loan $1 meter

Revenue Detail and Expenditure Summary
Cash Basis

WATERWORKS FUND

	2020 (Actual)	Estimated 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,036,236	$2,620,859	$3,679,998	$4,161,808	$4,742,825	$4,572,917	$4,354,956	$4,050,167	$3,844,423	$3,554,369	$3,383,484	$2,866,217
REVENUE												
Sale of Water	$6,266,137	$7,038,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900	$7,146,900
Service Charge	$93,954	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Penalties	$89,198	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000
Sale of Salvage	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Reimbursed Expense	$2,641	$8,200	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000
Interest on Investment	$17,213	$2,000	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300
Sale of Bonds	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Trf from Industrial Development S	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$0	$0
B&I to make bond payment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating Revenue	$1,274,758	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Miscellaneous	$11,302	$1,360	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350
TOTAL RECEIPTS	$8,105,202	$7,585,460	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,686,550	$7,336,550	$7,336,550
EXPENDITURES												
Personnel Services	$838,409	$872,262	$935,665	$972,150	$1,010,095	$1,049,557	$1,090,598	$1,133,280	$1,177,670	$1,223,836	$1,271,848	$1,321,780
Vacancy	$0	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)
Maintenance & Repair	$605,406	$586,650	$644,550	$647,621	$652,696	$657,771	$667,637	$677,652	$687,817	$698,134	$708,606	$719,235
Commodities	$888,377	$897,200	$903,000	$912,181	$912,181	$912,181	$925,863	$939,751	$953,847	$968,155	$982,677	$997,418
Other Charges	$173,046	$220,970	$217,070	$218,804	$220,326	$221,849	$225,176	$228,554	$231,982	$235,462	$238,994	$242,579
Capital Outlay	$539,043	$160,000	$555,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000
Debt Payment	$1,224,728	$1,451,698	$1,717,739	$1,794,589	$2,490,314	$2,474,514	$2,475,364	$2,288,025	$2,281,650	$2,069,325	$1,970,000	$1,642,800
Stock	($37,161)	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000
Transfer to Project Account	$1,274,758	$43,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$446,426	$507,350	$502,850	$521,050	$531,200	$539,168	$547,256	$555,465	$563,797	$572,254	$580,837	$589,550
Communications	$26,222	$45,100	$45,100	$45,777	$45,777	$46,463	$47,160	$47,867	$48,586	$49,314	$50,054	$50,805
Travel & Training	$2,668	$13,750	$13,450	$13,652	$13,652	$13,857	$14,064	$14,275	$14,489	$14,707	$14,927	$15,151
Contractual Services	$655,414	$587,900	$585,700	$595,095	$595,602	$604,536	$613,604	$622,808	$632,150	$641,633	$651,257	$661,026
Administrative Fee 17%, 16%	$1,064,487	$1,155,824	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000
Outstanding PO's												
Change in Liabilities	($181,240)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TOTAL EXPENDITURES	$7,520,580	$6,526,320	$7,204,740	$7,105,533	$7,856,458	$7,904,511	$7,991,339	$7,892,294	$7,976,604	$7,857,435	$7,853,817	$7,624,960
NET CHANGE IN CASH	$584,622	$1,059,140	$481,810	$581,017	($169,908)	($217,961)	($304,789)	($205,744)	($290,054)	($170,885)	($517,267)	($288,410)
ENDING CASH	**$2,620,859**	**$3,679,998**	**$4,161,808**	**$4,742,825**	**$4,572,917**	**$4,354,956**	**$4,050,167**	**$3,844,423**	**$3,554,369**	**$3,383,484**	**$2,866,217**	**$2,577,808**
Base for reserve calculation	$6,981,537	$6,366,320	$6,649,740	$6,805,533	$7,556,458	$7,604,511	$7,691,339	$7,592,294	$7,676,604	$7,557,435	$7,553,817	$7,324,960
20% reserve amount	$1,396,307	$1,273,264	$1,329,948	$1,361,107	$1,511,292	$1,520,902	($2,475,364)	($2,288,025)	($2,281,650)	($2,069,325)	($1,970,000)	($1,642,800)
Amount over 20% reserve	$1,224,551	$2,406,734	$2,831,860	$3,381,718	$3,061,625	$2,834,054	$6,525,531	$6,132,448	$5,836,019	$5,452,809	$4,836,217	$4,220,608
Percent	37.54%	57.80%	62.59%	69.69%	60.52%	57.27%	52.66%	50.64%	46.30%	44.77%	37.94%	35.19%

City of Emporia, Kansas 12/03/2021

2022 Rate Increase

12/2/21 4:11 PM

30 year loan $1 meter &2% consumption

Revenue Detail and Expenditure Summary
Cash Basis

WATERWORKS FUND

	2020 (Actual)	Estimated 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,036,236	$2,620,859	$3,679,998	$4,234,653	$4,888,515	$4,791,452	$4,646,336	$4,414,392	$4,281,493	$4,064,284	$3,966,244	$3,521,822
REVENUE												
Sale of Water	$6,266,137	$7,038,900	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745	$7,219,745
Service Charge	$93,954	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000
Penalties	$89,198	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000	$85,000
Sale of Salvage	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Reimbursed Expense	$2,641	$8,200	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000
Interest on Investment	$17,213	$2,000	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300	$1,300
Sale of Bonds	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Trf from Industrial Development S	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$350,000	$0	$0
B&I to make bond payment	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating Revenue	$1,274,758	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Miscellaneous	$11,302	$1,360	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350	$1,350
TOTAL RECEIPTS	$8,105,202	$7,585,460	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,759,395	$7,409,395	$7,409,395
EXPENDITURES												
Personnel Services	$838,409	$872,262	$935,665	$972,150	$1,010,095	$1,049,557	$1,090,598	$1,133,280	$1,177,670	$1,223,836	$1,271,848	$1,321,780
Vacancy	$0	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)	($20,384)
Maintenance & Repair	$605,406	$586,650	$644,550	$647,621	$652,696	$657,771	$667,637	$677,652	$687,817	$698,134	$708,606	$719,235
Commodities	$888,377	$897,200	$903,000	$912,181	$912,181	$912,181	$925,863	$939,751	$953,847	$968,155	$982,677	$997,418
Other Charges	$173,046	$220,970	$217,070	$218,804	$220,326	$221,849	$225,176	$228,554	$231,982	$235,462	$238,994	$242,579
Capital Outlay	$539,043	$160,000	$555,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000	$300,000
Debt Payment	$1,224,728	$1,451,698	$1,717,739	$1,794,589	$2,490,314	$2,474,514	$2,475,364	$2,288,025	$2,281,650	$2,069,325	$1,970,000	$1,642,800
Stock	($37,161)	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000
Transfer to Project Account	$1,274,758	$43,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$446,426	$507,350	$502,850	$521,050	$531,200	$539,168	$547,256	$555,465	$563,797	$572,254	$580,837	$589,550
Communications	$26,222	$45,100	$45,100	$45,777	$45,777	$46,463	$47,160	$47,867	$48,586	$49,314	$50,054	$50,805
Travel & Training	$2,668	$13,750	$13,450	$13,652	$13,652	$13,857	$14,064	$14,275	$14,489	$14,707	$14,927	$15,151
Contractual Services	$655,414	$587,900	$585,700	$595,095	$595,602	$604,536	$613,604	$622,808	$632,150	$641,633	$651,257	$661,026
Administrative Fee 17%, 16%	$1,064,487	$1,155,824	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000	$1,100,000
Outstanding PO's												
Change in Liabilities	($181,240)		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TOTAL EXPENDITURES	$7,520,580	$6,526,320	$7,204,740	$7,105,533	$7,856,458	$7,904,511	$7,991,339	$7,892,294	$7,976,604	$7,857,435	$7,853,817	$7,624,960
NET CHANGE IN CASH	$584,622	$1,059,140	$554,655	$653,862	($97,063)	($145,116)	($231,944)	($132,899)	($217,209)	($98,040)	($444,422)	($215,565)
ENDING CASH	**$2,620,859**	**$3,679,998**	**$4,234,653**	**$4,888,515**	**$4,791,452**	**$4,646,336**	**$4,414,392**	**$4,281,493**	**$4,064,284**	**$3,966,244**	**$3,521,822**	**$3,306,258**
Base for reserve calculation	$6,981,537	$6,366,320	$6,649,740	$6,805,533	$7,556,458	$7,604,511	$7,691,339	$7,592,294	$7,676,604	$7,557,435	$7,553,817	$7,324,960
20% reserve amount	$1,396,307	$1,273,264	$1,329,948	$1,361,107	$1,511,292	$1,520,902	($2,475,364)	($2,288,025)	($2,281,650)	($2,069,325)	($1,970,000)	($1,642,800)
Amount over 20% reserve	$1,224,551	$2,406,734	$2,904,705	$3,527,408	$3,280,160	$3,125,434	$6,889,756	$6,569,518	$6,345,934	$6,035,569	$5,491,822	$4,949,058
Percent	37.54%	57.80%	63.68%	71.83%	63.41%	61.10%	57.39%	56.39%	52.94%	52.48%	46.62%	45.14%

City of Emporia, Kansas

2022 Rate Increase

12/2/21 4:40 PM **Base**

Revenue Detail and Expenditure Summary

Cash Basis

WASTE WATER FUND

	2020 (Actual)	Est Budget 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,058,230	$2,606,765	$1,839,113	$1,088,784	($64,579)	($768,153)	($1,865,269)	($3,101,121)	($4,404,957)	($5,755,038)	($7,147,608)	($8,588,831)
REVENUE												
Sales/Charges	$5,299,292	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357	$5,496,357
Extra Strength Surcharge	$108,556	$105,100	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900
Interest on Investment	$14,826	$1,500	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
New system Taps	$827	$1,300	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
Sale of Bonds												
Transfer from Multi Year	$0	$0	$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
B&I to make bond payment	$500,000		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating												
Miscellaneous	$59,603	($2,026)	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
TOTAL RECEIPTS	$5,983,104	$5,602,231	$5,575,257	$5,575,257	$5,575,257	$5,575,257	$5,575,257	$5,575,258	$5,575,259	$5,575,260	$5,575,261	$5,575,262
EXPENDITURES												
Personnel Services	$781,653	$899,858	$939,942	$977,411	$1,016,379	$1,056,906	$1,099,054	$1,142,887	$1,188,474	$1,235,885	$1,285,192	$1,336,471
Vacancy	$0	($16,325)	($16,218)	($16,867)	($17,541)	($18,243)	($18,973)	($19,732)	($20,521)	($21,342)	($22,195)	($23,083)
Maintenance & Repair	$151,600	$296,850	$298,250	$291,750	$291,750	$297,788	$293,750	$298,156	$298,156	$298,156	$298,156	$298,156
Commodities	$142,302	$166,000	$156,000	$156,500	$166,500	$171,500	$176,500	$179,149	$179,148	$179,148	$179,148	$179,148
Other Charges	$129,302	$191,250	$185,100	$187,100	$189,100	$191,100	$193,100	$195,997	$195,997	$195,997	$195,997	$195,997
Capital Outlay	$317,711	$195,000	$480,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000
Debt Payment	$2,751,933	$2,593,250	$2,848,612	$3,297,226	$2,795,643	$3,134,823	$3,230,678	$3,233,028	$3,234,679	$3,230,579	$3,230,778	$3,235,429
Transfer to Project fund	$72,444	$620,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$489,542	$526,500	$521,500	$522,500	$523,500	$524,500	$524,500	$532,368	$532,368	$532,368	$532,368	$532,368
Communications	$19,282	$28,350	$28,350	$28,350	$28,350	$28,350	$28,350	$28,978	$28,775	$28,775	$28,775	$28,775
Travel & Training	$696	$7,000	$6,600	$6,600	$6,600	$6,600	$6,600	$6,699	$6,699	$6,699	$6,699	$6,699
Contractual Services	$151,412	$252,150	$267,450	$268,050	$268,550	$269,050	$267,550	$271,563	$271,563	$271,563	$271,563	$271,563
Administrative Fee Flat	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000
Outstanding PO's												
Change in Liabilities	($183,308)		$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
TOTAL EXPENDITURES	$5,434,568	$6,369,883	$6,325,586	$6,728,620	$6,278,831	$6,672,373	$6,811,109	$6,879,094	$6,925,340	$6,967,831	$7,016,484	$7,071,527
NET CHANGE IN CASH	$548,535	($767,652)	($750,329)	($1,153,363)	($703,574)	($1,097,116)	($1,235,852)	($1,303,836)	($1,350,081)	($1,392,571)	($1,441,223)	($1,496,265)
ENDING CASH	**$2,606,765**	**$1,839,113**	**$1,088,784**	**($64,579)**	**($768,153)**	**($1,865,269)**	**($3,101,121)**	**($4,404,957)**	**($5,755,038)**	**($7,147,608)**	**($8,588,831)**	**($10,085,096)**
Base for reserve calculation	$5,116,857	$6,174,883	$5,845,586	$6,328,620	$5,878,831	$6,272,373	$6,411,109	$6,479,094	$6,525,340	$6,567,831	$6,616,484	$6,671,527
20% Cash Reserve amount	$1,023,371	$1,234,977	$1,169,117	$1,265,724	$1,175,766	$1,254,475	$1,282,222	$1,295,819	$1,305,068	$1,313,566	$1,323,297	$1,334,305
Amount over 20% Cash Reserve	$1,583,394	$604,137	($80,333)	($1,330,303)	($1,943,919)	($3,119,744)	($4,383,343)	($5,700,776)	($7,060,106)	($8,461,174)	($9,912,128)	($11,419,402)
Percentage	50.94%	29.78%	18.63%	-1.02%	-13.07%	-29.74%	-48.37%	-67.99%	-88.20%	-108.83%	-129.81%	-151.17%

City of Emporia, Kansas

2022 Rate Increase

12/2/21 4 42 PM **$2 meter**

Revenue Detail and Expenditure Summary

Cash Basis

WASTE WATER FUND

	2020 (Actual)	Est Budget 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,058,230	$2,606,765	$1,839,113	$1,304,784	$367,421	($120,153)	($1,001,269)	($2,021,121)	($3,108,957)	($4,243,038)	($5,419,608)	($6,644,831)
REVENUE												
Sales/Charges	$5,299,292	$5,496,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357	$5,712,357
Extra Strength Surcharge	$108,556	$105,100	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900
Interest on Investment	$14,826	$1,500	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
New system Taps	$827	$1,300	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
Sale of Bonds												
Transfer from Multi Year	$0	$0	$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
B&I to make bond payment	$500,000		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating												
Miscellaneous	$59,603	($2,026)	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
TOTAL RECEIPTS	$5,983,104	$5,602,231	$5,791,257	$5,791,257	$5,791,257	$5,791,257	$5,791,257	$5,791,258	$5,791,259	$5,791,260	$5,791,261	$5,791,262
EXPENDITURES												
Personnel Services	$781,653	$899,858	$939,942	$977,411	$1,016,379	$1,056,906	$1,099,054	$1,142,887	$1,188,474	$1,235,885	$1,285,192	$1,336,471
Vacancy	$0	($16,325)	($16,218)	($16,867)	($17,541)	($18,243)	($18,973)	($19,732)	($20,521)	($21,342)	($22,195)	($23,083)
Maintenance & Repair	$151,600	$296,850	$298,250	$291,750	$291,750	$297,788	$293,750	$298,156	$298,156	$298,156	$298,156	$298,156
Commodities	$142,302	$166,000	$156,000	$156,500	$166,500	$171,500	$176,500	$179,149	$179,148	$179,148	$179,148	$179,148
Other Charges	$129,302	$191,250	$185,100	$187,100	$189,100	$191,100	$193,100	$195,997	$195,997	$195,997	$195,997	$195,997
Capital Outlay	$317,711	$195,000	$480,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000
Debt Payment	$2,751,933	$2,593,250	$2,848,612	$3,297,226	$2,795,643	$3,134,823	$3,230,678	$3,233,028	$3,234,679	$3,230,579	$3,230,778	$3,235,429
Transfer to Project fund	$72,444	$620,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$489,542	$526,500	$521,500	$522,500	$523,500	$524,500	$524,500	$532,368	$532,368	$532,368	$532,368	$532,368
Communications	$19,282	$28,350	$28,350	$28,350	$28,350	$28,350	$28,350	$28,978	$28,775	$28,775	$28,775	$28,775
Travel & Training	$696	$7,000	$6,600	$6,600	$6,600	$6,600	$6,600	$6,699	$6,699	$6,699	$6,699	$6,699
Contractual Services	$151,412	$252,150	$267,450	$268,050	$268,550	$269,050	$267,550	$271,563	$271,563	$271,563	$271,563	$271,563
Administrative Fee Flat	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000
Outstanding PO's												
Change in Liabilities	($183,308)		$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
TOTAL EXPENDITURES	$5,434,568	$6,369,883	$6,325,586	$6,728,620	$6,278,831	$6,672,373	$6,811,109	$6,879,094	$6,925,340	$6,967,831	$7,016,484	$7,071,527
NET CHANGE IN CASH	$548,535	($767,652)	($534,329)	($937,363)	($487,574)	($881,116)	($1,019,852)	($1,087,836)	($1,134,081)	($1,176,571)	($1,225,223)	($1,280,265)
ENDING CASH	**$2,606,765**	**$1,839,113**	**$1,304,784**	**$367,421**	**($120,153)**	**($1,001,269)**	**($2,021,121)**	**($3,108,957)**	**($4,243,038)**	**($5,419,608)**	**($6,644,831)**	**($7,925,096)**
Base for reserve calculation	$5,116,857	$6,174,883	$5,845,586	$6,328,620	$5,878,831	$6,272,373	$6,411,109	$6,479,094	$6,525,340	$6,567,831	$6,616,484	$6,671,527
20% Cash Reserve amount	$1,023,371	$1,234,977	$1,169,117	$1,265,724	$1,175,766	$1,254,475	$1,282,222	$1,295,819	$1,305,068	$1,313,566	$1,323,297	$1,334,305
Amount over 20% Cash Reserve	$1,583,394	$604,137	$135,667	($898,303)	($1,295,919)	($2,255,744)	($3,303,343)	($4,404,776)	($5,548,106)	($6,733,174)	($7,968,128)	($9,259,402)
Percentage	50.94%	29.78%	22.32%	5.81%	-2.04%	-15.96%	-31.53%	-47.98%	-65.02%	-82.52%	-100.43%	-118.79%

City of Emporia, Kansas

2022 Rate Increase

12/2/21 4:42 PM **$2 meter & 5% consumption**

Revenue Detail and Expenditure Summary

Cash Basis

WASTE WATER FUND

	2020 (Actual)	Est Budget 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,058,230	$2,606,765	$1,839,113	$1,469,674	$697,201	$374,517	($341,709)	($1,196,671)	($2,119,617)	($3,088,808)	($4,100,488)	($5,160,821)
REVENUE												
Sales/Charges	$5,299,292	$5,496,357	$5,877,247	$5,877,247	$5,877,247	$5,877,247	$5,877,247	$5,877,247	$5,877,247	$5,877,247	$5,877,247	$5,877,247
Extra Strength Surcharge	$108,556	$105,100	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900
Interest on Investment	$14,826	$1,500	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
New system Taps	$827	$1,300	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
Sale of Bonds												
Transfer from Multi Year	$0	$0	$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
B&I to make bond payment	$500,000		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating												
Miscellaneous	$59,603	($2,026)	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
TOTAL RECEIPTS	$5,983,104	$5,602,231	$5,956,147	$5,956,147	$5,956,147	$5,956,147	$5,956,147	$5,956,148	$5,956,149	$5,956,150	$5,956,151	$5,956,152
EXPENDITURES												
Personnel Services	$781,653	$899,858	$939,942	$977,411	$1,016,379	$1,056,906	$1,099,054	$1,142,887	$1,188,474	$1,235,885	$1,285,192	$1,336,471
Vacancy	$0	($16,325)	($16,218)	($16,867)	($17,541)	($18,243)	($18,973)	($19,732)	($20,521)	($21,342)	($22,195)	($23,083)
Maintenance & Repair	$151,600	$296,850	$298,250	$291,750	$291,750	$297,788	$293,750	$298,156	$298,156	$298,156	$298,156	$298,156
Commodities	$142,302	$166,000	$156,000	$156,500	$166,500	$171,500	$176,500	$179,149	$179,148	$179,148	$179,148	$179,148
Other Charges	$129,302	$191,250	$185,100	$187,100	$189,100	$191,100	$193,100	$195,997	$195,997	$195,997	$195,997	$195,997
Capital Outlay	$317,711	$195,000	$480,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000
Debt Payment	$2,751,933	$2,593,250	$2,848,612	$3,297,226	$2,795,643	$3,134,823	$3,230,678	$3,233,028	$3,234,679	$3,230,579	$3,230,778	$3,235,429
Transfer to Project fund	$72,444	$620,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$489,542	$526,500	$521,500	$522,500	$523,500	$524,500	$524,500	$532,368	$532,368	$532,368	$532,368	$532,368
Communications	$19,282	$28,350	$28,350	$28,350	$28,350	$28,350	$28,350	$28,978	$28,775	$28,775	$28,775	$28,775
Travel & Training	$696	$7,000	$6,600	$6,600	$6,600	$6,600	$6,600	$6,699	$6,699	$6,699	$6,699	$6,699
Contractual Services	$151,412	$252,150	$267,450	$268,050	$268,550	$269,050	$267,550	$271,563	$271,563	$271,563	$271,563	$271,563
Administrative Fee Flat	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000
Outstanding PO's												
Change in Liabilities	($183,308)		$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
TOTAL EXPENDITURES	$5,434,568	$6,369,883	$6,325,586	$6,728,620	$6,278,831	$6,672,373	$6,811,109	$6,879,094	$6,925,340	$6,967,831	$7,016,484	$7,071,527
NET CHANGE IN CASH	$548,535	($767,652)	($369,439)	($772,473)	($322,684)	($716,226)	($854,962)	($922,946)	($969,191)	($1,011,681)	($1,060,333)	($1,115,375)
ENDING CASH	**$2,606,765**	**$1,839,113**	**$1,469,674**	**$697,201**	**$374,517**	**($341,709)**	**($1,196,671)**	**($2,119,617)**	**($3,088,808)**	**($4,100,488)**	**($5,160,821)**	**($6,276,196)**
Base for reserve calculation	$5,116,857	$6,174,883	$5,845,586	$6,328,620	$5,878,831	$6,272,373	$6,411,109	$6,479,094	$6,525,340	$6,567,831	$6,616,484	$6,671,527
20% Cash Reserve amount	$1,023,371	$1,234,977	$1,169,117	$1,265,724	$1,175,766	$1,254,475	$1,282,222	$1,295,819	$1,305,068	$1,313,566	$1,323,297	$1,334,305
Amount over 20% Cash Reserve	$1,583,394	$604,137	$300,557	($568,523)	($801,249)	($1,596,184)	($2,478,893)	($3,415,436)	($4,393,876)	($5,414,054)	($6,484,118)	($7,610,502)
Percentage	50.94%	29.78%	25.14%	11.02%	6.37%	-5.45%	-18.67%	-32.71%	-47.34%	-62.43%	-78.00%	-94.07%

City of Emporia, Kansas

2022 Rate Increase

12/2/21 4:43 PM **$2 meter & 8% consumption**

Revenue Detail and Expenditure Summary

Cash Basis

WASTE WATER FUND

	2020 (Actual)	Est Budget 2021	Budget 2022	Budget 2023	Budget 2024	Budget 2025	Budget 2026	Budget 2027	Budget 2028	Budget 2029	Budget 2030	Budget 2031
BEGINNING CASH	$2,058,230	$2,606,765	$1,839,113	$1,568,608	$895,069	$671,319	$54,027	($702,001)	($1,526,013)	($2,396,270)	($3,309,016)	($4,270,415)
REVENUE												
Sales/Charges	$5,299,292	$5,496,357	$5,976,181	$5,976,181	$5,976,181	$5,976,181	$5,976,181	$5,976,181	$5,976,181	$5,976,181	$5,976,181	$5,976,181
Extra Strength Surcharge	$108,556	$105,100	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900	$75,900
Interest on Investment	$14,826	$1,500	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
New system Taps	$827	$1,300	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
Sale of Bonds												
Transfer from Multi Year	$0	$0	$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
B&I to make bond payment	$500,000		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Non Operating												
Miscellaneous	$59,603	($2,026)	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000
TOTAL RECEIPTS	$5,983,104	$5,602,231	$6,055,081	$6,055,081	$6,055,081	$6,055,081	$6,055,081	$6,055,082	$6,055,083	$6,055,084	$6,055,085	$6,055,086
EXPENDITURES												
Personnel Services	$781,653	$899,858	$939,942	$977,411	$1,016,379	$1,056,906	$1,099,054	$1,142,887	$1,188,474	$1,235,885	$1,285,192	$1,336,471
Vacancy	$0	($16,325)	($16,218)	($16,867)	($17,541)	($18,243)	($18,973)	($19,732)	($20,521)	($21,342)	($22,195)	($23,083)
Maintenance & Repair	$151,600	$296,850	$298,250	$291,750	$291,750	$297,788	$293,750	$298,156	$298,156	$298,156	$298,156	$298,156
Commodities	$142,302	$166,000	$156,000	$156,500	$166,500	$171,500	$176,500	$179,149	$179,148	$179,148	$179,148	$179,148
Other Charges	$129,302	$191,250	$185,100	$187,100	$189,100	$191,100	$193,100	$195,997	$195,997	$195,997	$195,997	$195,997
Capital Outlay	$317,711	$195,000	$480,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000	$400,000
Debt Payment	$2,751,933	$2,593,250	$2,848,612	$3,297,226	$2,795,643	$3,134,823	$3,230,678	$3,233,028	$3,234,679	$3,230,579	$3,230,778	$3,235,429
Transfer to Project fund	$72,444	$620,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Utilities	$489,542	$526,500	$521,500	$522,500	$523,500	$524,500	$524,500	$532,368	$532,368	$532,368	$532,368	$532,368
Communications	$19,282	$28,350	$28,350	$28,350	$28,350	$28,350	$28,350	$28,978	$28,775	$28,775	$28,775	$28,775
Travel & Training	$696	$7,000	$6,600	$6,600	$6,600	$6,600	$6,600	$6,699	$6,699	$6,699	$6,699	$6,699
Contractual Services	$151,412	$252,150	$267,450	$268,050	$268,550	$269,050	$267,550	$271,563	$271,563	$271,563	$271,563	$271,563
Administrative Fee Flat	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000	$610,000
Outstanding PO's												
Change in Liabilities	($183,308)		$0	$0	$0	$0	$0	$1	$2	$3	$4	$5
TOTAL EXPENDITURES	$5,434,568	$6,369,883	$6,325,586	$6,728,620	$6,278,831	$6,672,373	$6,811,109	$6,879,094	$6,925,340	$6,967,831	$7,016,484	$7,071,527
NET CHANGE IN CASH	$548,535	($767,652)	($270,505)	($673,539)	($223,750)	($617,292)	($756,028)	($824,012)	($870,257)	($912,747)	($961,399)	($1,016,441)
ENDING CASH	**$2,606,765**	**$1,839,113**	**$1,568,608**	**$895,069**	**$671,319**	**$54,027**	**($702,001)**	**($1,526,013)**	**($2,396,270)**	**($3,309,016)**	**($4,270,415)**	**($5,286,856)**
Base for reserve calculation	$5,116,857	$6,174,883	$5,845,586	$6,328,620	$5,878,831	$6,272,373	$6,411,109	$6,479,094	$6,525,340	$6,567,831	$6,616,484	$6,671,527
20% Cash Reserve amount	$1,023,371	$1,234,977	$1,169,117	$1,265,724	$1,175,766	$1,254,475	$1,282,222	$1,295,819	$1,305,068	$1,313,566	$1,323,297	$1,334,305
Amount over 20% Cash Reserve	$1,583,394	$604,137	$399,491	($370,655)	($504,447)	($1,200,448)	($1,984,223)	($2,821,832)	($3,701,338)	($4,622,582)	($5,593,712)	($6,621,162)
Percentage	50.94%	29.78%	26.83%	14.14%	11.42%	0.86%	-10.95%	-23.55%	-36.72%	-50.38%	-64.54%	-79.25%