



REQUEST FOR COMMISSION ACTION
CITY OF INDEPENDENCE
October 8, 2020

Department Public Utilities

Director Approval Terry Lybarger

AGENDA ITEM Consider authorizing staff to negotiate a contract for engineering services with PEC for advanced metering and water line replacement.

SUMMARY RECOMMENDATION Authorize staff to negotiate an engineering contract with PEC

BACKGROUND The City of Independence prepared an RFQ seeking an engineering firm to design and provide bidding and construction administration for installation of an advanced metering infrastructure system (AMI) and water line replacement. The City received eight responses and ranked the top four as follows:

1. Professional Engineering Consultants PA
2. Allgeier, Martin and Associates, Inc.
3. Olsson
4. BG Consultants

This RFQ includes approximately 4,400 water meters and 6,000 feet of 2", 4", and 6" water line. The City of Independence received eight responses to the RFQ and staff ranked PEC as the top firm.

BUDGET IMPACT The funding for this project would be from the Low Interest Revolving Loan for Water System Improvements.

SUGGESTED MOTION I move to authorize City Staff to negotiate a contract with PEC for Commission approval.

SUPPORTING DOCUMENTS

1. Water Line and Advanced Metering RFQ
2. PEC Response

Request for Qualifications
for
Advanced Metering Infrastructure
And
Water Line Replacement
City of Independence, KS

August 24, 2020

Statement of Qualifications

Due Date: Thursday, September 17, 2020 (2:00PM)

1.0 SCOPE AND BACKGROUND

The City is seeking a highly qualified engineering company to design and provide bidding and construction administration services for installation of an advanced metering infrastructure system (AMI) and waterline replacement. The project will include replacement of approximately 4400 water meters with a new system that includes a number of remote functions such as meter reading, disconnect, and endpoint alarm handling. The water line replacement portion consists of replacing approximately 6000 ft. of 2", 4", and 6" water line with new 6" line, reconnection of water meters to new main, new fire hydrants and all fittings as required.

This project will be funded by State Revolving Loan Funding. The funding for this project is in the approval process now and will **not** be approved prior to the issuance of this RFQ. The engineering firm selected for this project will assist the City in completing the loan application and submittal process to the State of Kansas, development of the required Preliminary Engineering Report, assistance with SRLF requirements of the City during construction, and project closeout.

The project scope, at a minimum, will include the following for each design element:

- Preparation of the Preliminary Engineering Report (PER) in accordance with KDHE requirements and revisions as needed to obtain KDHE approval
- Field survey and geotechnical investigations as required
- Development of design specifications and construction plans
- Development of budget/cost estimates
- Development of anticipated completion schedule
- Submission of design documents to KDHE for approval
- Develop a strategy for deploying an AMI system throughout the City's existing and potential future service areas, including all meters and radios.
- Assistance with the SRLF loan application and administration requirements during construction.
- Bidding and construction administration services.

Engineer shall have the capabilities to provide the services requested in this RFQ.

2.0 RFQ SCHEDULE

Issue Request for Qualifications	Monday, August 24, 2020
Deadline for Questions	Thursday, September 10, 2020 (5:00PM)
City Receive Statement of Qualifications (SOQ)	Thursday, September 17, 2020 (2:00PM)
City SOQ Evaluation	Thursday September 18, 2020 – September 24, 2020

3.0 TECHNICAL QUALIFICATIONS SOQ Format:

The SOQ will be limited to a maximum of fifteen (15) pages in length. SOQ should be printed on 8.5" X 11" paper, although charts, matrices, or diagrams may be printed on larger sheets. Type size should be no smaller than 11 point font for narrative sections, but may be reduced for captions, footnotes, etc. as required, while still maintaining legibility. Please submit packages comprised of materials that are easily recyclable or reusable at the conclusion of the evaluation process. Electronic submittals are encouraged but not required.

Your SOQ should include the following information:

1. Engineer's name, address, and brief company history.
2. Services to be provided by your company.
3. Services to be provided by sub consultants. If using sub consultants, please describe previous collaborations and prime vendors management approach toward sub consultants.
4. Engineer's understanding of project and approach to delivering requested services.
5. Related experience to include:
 - a. Projects of a relevant nature and scope with date of completion.
 - b. Resumes of your key personnel qualified to perform items outlined in the referenced scope of work with an organizational flow chart of the project manager and key personnel assigned to the project.
 - c. References with current contacts on similar size and scope projects.
6. Provide project schedule with key milestones.
7. Vendor Financial Statements

4.0 QUALIFICATIONS EVALUATION CRITERIA:

Qualifications will be evaluated based on engineer's ability to meet the needs of the City for the design, bidding, construction administration, and commissioning of the AMI system and waterline. This SOQ should provide all relevant information necessary to allow the City to conduct a thorough analysis of the engineer's ability to perform the professional services associated with the project. The following is an example list of criteria that, as a minimum, will be used to review the SOQ.

1. Engineer and Individual Qualifications
 - a) Services to be provided by engineer
 - b) Qualifications and experience of individuals to be assigned to the project.

2. Experience Considerations
 - a) Understanding of project scope and approach to service delivery.
 - b) Specific project type experience.
 - c) Project and work experience specifically with design and implementation of AMI systems and waterlines.
 - d) Project approach
3. Ability to perform work
 - a) Availability of staff.
 - b) Services to be provided by sub-contractors.
4. References
 - a) Quality of design.
 - b) Ability to meet schedules/deadlines.
 - c) Ability to control cost/meet budgets.
 - d) Communication/Cooperation.

The City reserves the right to consider any other factors that it deems to be relevant to its needs. The City reserves the right to request additional information from an individual or to request all engineers to submit supplemental materials in fulfillment of the content requirements of this RFQ or to meet additional information needs of the City. The City also reserves the unilateral right to waive any technical or format requirements contained in the RFQ.

5.0 SELECTION/REJECTION OF QUALIFICATIONS

The City intends to review the SOQ's and select the most qualified engineers for further consideration which may include an in-person interview in Independence. The City reserves the right to reject any and all qualifications, and to re-solicit for qualifications in the event that any or all qualifications are rejected.

6.0 RFQ COMMUNICATION

All questions or other communication regarding the City's RFQ should be submitted by email to:

Terence Lybarger

Utilities Director

terryl@independencesks.gov

7.0 QUALIFICATIONS SUBMITTAL DEADLINE

The following deadlines and time-frames apply to this solicitation:

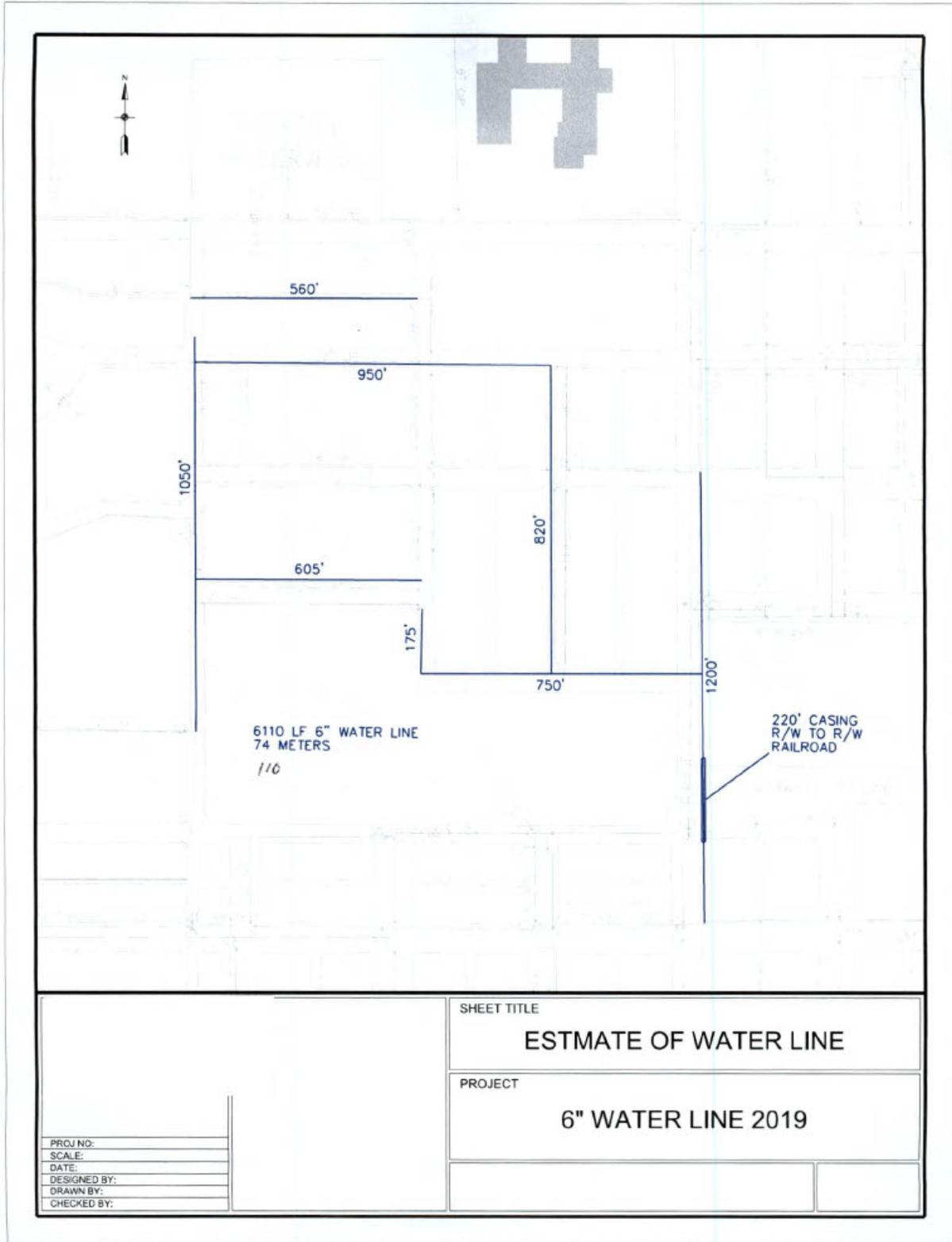
Statement of Qualifications Due: Thursday, September 17, 2020 (2:00PM) Note: Late responses will not be accepted by the City.

8.0 NOTICE OF RECEIPT OF RFQ - INTENT TO RESPOND

The City requests that recipients of this RFQ who intend to respond provide a courtesy notice of such intention via email message to terryl@independenceks.gov

9.0 E-MAIL ELECTRONIC COPIES (LESS THAN 6 MB) OF THE STATEMENT OF QUALIFICATIONS OR SIX (6) HARD COPIES AND ONE (1) ELECTRONIC COPY TO:

David Schwenker
811 W Laurel St.
Independence, KS 67301
Email: davids@independenceks.gov



10th Street to North 13th Street and W Sycamore Street to Oak Street



Peter Pan Rd and West Main Street



ADVANCED METERING INFRASTRUCTURE AND WATER LINE REPLACEMENT

SEPTEMBER 2020



ENGINEERING LASTING RELATIONSHIPS

PROFESSIONAL ENGINEERING CONSULTANTS PA

September 16, 2020

David Schwenker
City Clerk/Treasurer
City of Independence
811 West Laurel Street
Independence, KS 67301

Re: Advanced Metering Infrastructure and Water Line Replacement

Dear Mr. Schwenker:

Professional Engineering Consultants, PA (PEC) has worked with Independence on successful projects in the past and has completed many different types of water line and water meter replacement projects throughout the State of Kansas. We are familiar with the City's operating procedures, utility coordination, and other processes necessary to complete this project to meet Independence's high standards. PEC has history and substantial knowledge of Independence, as evidenced by our past and current projects at the City's water treatment plant.

With more than 55 years of leadership in water system design, PEC has provided a variety of engineering services on a variety of schedules for many communities in Kansas, including Independence. Close collaboration throughout our previous projects has allowed our team to evaluate projects from every perspective and create positive outcomes. Creating consensus will remain at the forefront of all project tasks, as it has in the past. Our team is ready for this opportunity to serve the City of Independence.

PEC's experience includes all types of current technology available for water line improvements and water metering equipment, from specialized design programs to the newest construction methods. Our willingness to involve, respect, and respond to ideas from City staff result in successful and cost-effective design solutions for City projects. PEC has been involved with several communities with projects that included State Revolving Loan Funding (SRLF) and are very familiar with the KDHE requirements, including assisting with the loan application process, preparing Preliminary Engineering Reports (PER), and meeting all the SRLF requirements throughout design and construction.

PEC agrees to maintain strict confidentiality with regard to all aspects of this project. We also agree to direct all media, citizen, and public official requests for information to the City's project manager.

Thank you for this opportunity to continue to serve the City of Independence on this important project. We look forward to discussing our added value and presenting our ideas to you during the selection process.

Respectfully submitted,

PROFESSIONAL ENGINEERING CONSULTANTS, PA



Michael D. Kelsey, PE
Principal-in-Charge

ADDENDUM NO. 1

DATE: SEPTEMBER 2, 2020

PROJECT: RFQ FOR ADVANCED METERING INFRASTRUCTURE AND
WATER LINE REPLACEMENT

FROM: CITY OF INDEPENDENCE

In case of conflict between the Request for Qualifications and this addendum, this addendum shall govern.

Item 1:

3.0 TECHNICAL QUALIFICATIONS SOQ Format:

Your SOQ should include the following information:

REMOVE: 7. Vendor Financial Statements

Received by:



Michael D. Kelsey, PE, Principal-in-Charge
Contractor



SECTION ONE
About PEC

SECTION TWO
Project Understanding
and Approach

SECTION THREE
Related Experience

SECTION FOUR
Project Schedule
with Key Milestones





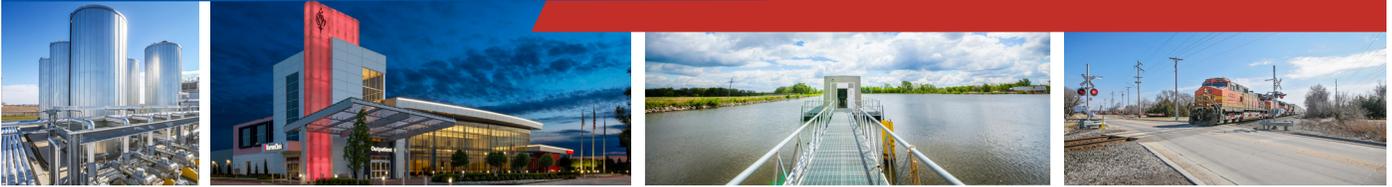
SECTION ONE
About PEC





FIRM PROFILE

PROFESSIONAL ENGINEERING CONSULTANTS



Professional Engineering Consultants PA (PEC) applies scientific principles to make things work. We communicate those principles in a way that promotes understanding and consensus to maximize opportunities.

That's what good engineering is all about — that is what PEC is all about — creating opportunity. We understand the market, the technology, the regulations, and the communities we serve. It's having the foresight to re-imagine the everyday into the extraordinary with practical, proactive, innovative solutions that save money, and create value.

Founded in 1965 as one of the first full-service consulting firms in the region, PEC's knowledge is the cumulative effect of more than 55 years of experience. We offer comprehensive services conveniently located in one firm, an efficiency that translates into time and cost savings.

PEC started with less than 30 people. Today, our staff of more than 300 holds professional engineering licenses in all 50 states. Our work takes us across the nation and around the world to design an increasing variety of projects from highways to hospitals — water towers to wind turbines — stadiums to sidewalks — and everything in between.

What we do is important but more important is how we do it for you. We know each client is different and each project is unique. We are flexible in our approach, innovative in our thinking, and relentless on your behalf. We appreciate your partnership, honor your input and will work to create value for you at every point in the project.

Our services include:

- **Civil Engineering**
transportation, water/wastewater treatment, water distribution, sanitary sewer collection, airports, municipal services, planning, land development, traffic engineering, drainage/stormwater, site design
- **Facilities Engineering**
mechanical, electrical, structural, telecommunications, specialty lighting, plumbing, arc flash, specialty foundations
- **Field Services**
survey, geotechnical, geotechnical engineering, construction observation, special inspections, construction materials testing, commissioning, HVAC air and water balance
- **Specialty Services**
funding assistance, landscape architecture, audio/visual design, architectural lighting design, computational fluid dynamics, infrared thermography, ground penetrating radar (GPR), electro-acoustic simulation, automated control systems, virtual design + construction, geographic information systems (GIS), 3D laser scanning, drone aerial photography



ADVANCED METERING INFRASTRUCTURE
AND WATER LINE REPLACEMENT

PEC | 2



SECTION TWO
Project Understanding
and Approach



PROJECT UNDERSTANDING AND APPROACH

PEC has more than 55 years of water line infrastructure design experience. Our approach to your project is an interactive team effort consisting of key staff members from the City of Independence and PEC. Communication and interaction between members of the City and PEC Team are critical in identifying project goals and developing alternatives that best fit the City's needs.

As evidenced by our work history, PEC has been involved in many similar water meter and water line replacement projects for cities throughout the State of Kansas including successful design projects for the City of Independence. PEC is familiar with the City of Independence's plan expectations, operating procedures, utility coordination, project bidding process, and other processes necessary to complete a quality-assured set of construction documents. PEC will work closely with City staff to coordinate schedule, scope, and budget throughout this project from our offices located in downtown Wichita. We also provide field survey and geotechnical investigations through our Wichita Field Services office along with assistance from our regional office located in Pittsburg, Kansas.

As outlined in the RFQ, the critical elements of the project include:

- **Preparation of the Preliminary Engineering Report (PER) in accordance with KDHE requirements and revisions as needed to obtain KDHE approval.** PEC has prepared multiple PERs for government agency loan and grant applications and is very knowledgeable of PER processes and requirements. PEC will keep the City involved in the PER process to provide insight into the background of the proposed and recommended improvement options.
- **Field survey and geotechnical investigations as required.** PEC has the ability to provide both survey and geotechnical services in-house. Our PEC Field Services is familiar with Independence and having these services in-house make the coordination and scheduling seamless. PEC also has experience working with surveyors local to the Independence area, and will review the possibility of utilizing a local company.





Our approach to your project is an interactive team effort consisting of key staff members from the City of Independence and PEC.



- **Development of design specifications and construction plans.** PEC will coordinate all aspects of preparation of specifications and construction plans with City staff to ensure specific materials and manufacturers are identified to meet City requirements.
- **Development of budget/cost estimates.** At each design submittal, cost estimates will be produced to ensure the proposed project and estimated costs are tracking with the anticipated funding.
- **Development of anticipated completion schedule.** The schedule will be monitored throughout the project to ensure milestones are being met.
- **Submission of design documents to KDHE for approval.** PEC is familiar with KDHE's permitting process for water line improvements and has experience producing plans and specifications meeting KDHE's requirements. Any comments from KDHE will be addressed in a timely manner to keep the project on schedule.
- **Develop a strategy for deploying an AMI system throughout the City's existing and potential service areas, including all meters and radios.** PEC will coordinate with City staff during the deployment process to make sure construction and installation sequencing is completed without affecting the City's existing metering process. Multiple options will be reviewed to determine the optimum strategy for the new meter installation.
- **Assistance with the SRLF loan application and administration requirements during construction.** PEC has experience with the KDHE loan application and administration process. PEC will assist the City with all aspects of the KDHE SRFL from the initial application, through bidding and construction, to the final loan closeout.
- **Bidding and construction administration services.** PEC has the ability through our PEC Plan Room to advertise and bid the construction project and we provide construction administration services on nearly all of our water line projects.

Specific elements that will be considered during the design of the proposed improvements include:

- Providing proper location of water mains relative to any future roadway or other improvements. The proposed water line design will consider potential for future improvements to minimize the risk of conflict.
- Maintaining access to all properties along the project corridor during construction and minimize service downtime during connections at existing water mains.





- A project sequencing plan will be developed to meet any special construction needs or requirements. The sequencing and water line design components are critical to ensure necessary testing can be completed before water line connections are made, and the new water lines can be placed in service before reconnecting service lines. During the service reconnections, the AMI meter reading deployment will be implemented as needed to fit the construction sequencing plan.
- We will minimize conflicts with existing utilities along the proposed corridors. Utility check sets will be created with all potential conflicts identified. These conflicts will be coordinated with the individual utility companies to either verify there is not an issue or to coordinate any necessary relocations. PEC spends a substantial amount of effort in the planning stages of projects similar to this one. Existing utility research and locations is a part of our design process including contacting all utility companies and coordinating design with other utilities.

Our phased approach will include a detailed design alignment, 30 percent plans, specifications, cost estimates, 90 percent design documents, and final design. After review and acceptance of our design alignment and 30 percent preliminary plan submittals, we will proceed to 90 percent plans and then to final construction documents. We will conduct project review meetings at all phases of the design. Periodic construction cost estimates will be prepared at milestone intervals to assist in the decision-making process throughout design. We will attend any necessary meetings throughout the design and construction process of the project. As design and construction progresses, the AMI meter deployment will be implemented in areas that are not affected by the new construction.

AVAILABILITY OF STAFF

PEC is the **largest engineering firm in the City of Wichita** with more than 170 employees residing in the metropolitan area. Our Civil Engineering Department has 46 design and technical professionals in our Wichita office with staff immediately available to manage and design this project. PEC's civil engineering staff have worked corroboratively on many similar projects providing a tremendous base of expertise, knowledge, and coordination at competitive rates to assure **your project is completed in a timely manner at the highest standards.**

COMMUNICATION/COOPERATION

Our team prides itself on excellent communication. It is important to us that the City is active in project development, design decisions, and construction related activities. Through our coordination, you and your staff will know and understand your project and will take ownership in its development – there will be no surprises. PEC has the capability to assist and facilitate the avenue





SECTION THREE
Related Experience

RELATED EXPERIENCE

WATER METERING STATION IMPROVEMENTS DERBY, KS

This project included design improvements to the City of Derby's existing Metering Station located at Patriot Avenue and K-15 Highway, which PEC had previously designed. More specifically, the design included adding three Variable Frequency Drive pumps inside the existing metering station. PEC's involvement included sizing the pumps and coordinating purchase of the pumps between the City and pump supplier.

WATER LINE REPLACEMENTS GREAT BEND, KS

Due to aging infrastructure and numerous issues with leaks and breaks, the City of Great Bend hired PEC to prepare construction documents to replace areas of their water distribution system. Great Bend Water Line Replacements consisted of replacing approximately 20,000 linear feet of 8-inch, 1,500 linear feet of 10-inch, and 12,500 linear feet of 12-inch water line throughout the City limits. There were also approximately 50 fire hydrants and 100 valves installed with the project. Insertion-type isolation valves were utilized in areas that had faulty existing valves that did not allow the contractor to isolate water lines.

SEWARD (69TH) STREET AND SENECA WATER LINES VALLEY CENTER, KS

This project involved a 12-inch water main along Seward Street from Interurban Drive to the west property line of the Wichita-Valley Center Flood Control and a 6-inch to 8-inch water main along Seneca Street from Seward Street to Interurban Drive. PEC provided civil engineering, construction administration, and inspection.

WATER SYSTEM IMPROVEMENTS MEDICINE LODGE, KS

The City of Medicine Lodge's water system had an unreliable source of water, a single 5-mile long water line to supply the source water and an aging booster pump station. PEC provided design services to improve their overall water system, including new wells and improvements to the water distribution system. The water distribution system improvements included a new water tower, booster pump station improvements, and relocating the City's chlorine feed location in order to create two pressure zones. The addition of a high pressure zone was created to provide adequate pressure to future City development in areas of higher elevation. The new water tower and high pressure zone provided water to the existing water tower and distribution system through pressure reducing control valves. The water distribution system improvements also included installation of approximately 3 miles of 12-inch water line to provide a secondary water supply source to the City and 7,000 linear feet of water line replacements to increase pressures and replace aging water lines throughout the City's distribution system. PEC provided design services, permitting assistance, bidding, geotechnical services, construction administration, construction observation, and testing services for the project. This project also included USDA and SRLF funding, with PEC assisting with the applications, performing a PER, and meeting all KDHE requirements.



WATER LINE REPLACEMENTS VALLEY CENTER, KS

PEC prepared a Preliminary Engineering Report (PER) for water distribution improvements in Valley Center, Kansas. This PER was submitted to USDA to obtain funding. Recommended improvements were identified in the Master Water System Study previously completed by PEC. The water system improvements included more than 17,000 feet of waterline replacement in the older, developed areas of Valley Center that improved water quality and fire flows. It utilized trenchless installation methods to minimize disturbance to area residents and cost of pavement removal and replacement. In addition to design services, PEC also provided permitting, bidding, construction administration, as well as construction observation and testing services for the project.

119TH STREET WEST WATER LINE, 29TH STREET NORTH TO FONTANA WICHITA, KS

This project included 1,850 feet of 16-inch pipe along with a companion subdivision water line project that included 3,000 feet of 8-inch water line. In addition to providing domestic water service for the subdivision expansion, this project provided a needed loop in the water system to enhance water pressures and fire protection coverage.

MADISON AVENUE WATER LINE WICHITA, KS

This project included the replacement of 600 feet of 8-inch water line, including fire hydrants and valves in Madison Avenue extending south from Central Avenue. The project also included the reconnection of multiple existing residential water service lines.

TYLER ROAD AND YOSEMITE STREET WATER LINE WICHITA, KS

This project included 4,700 feet of 16 feet pipe and 145 feet of 8-inch pipe with multiple fire hydrants and water isolation valves. The project completed a loop in the water system from along portions of Yosemite Street and Tyler Road just west of the Dwight D. Eisenhower National Airport. This loop improved water pressures and fire protection coverage. A new water supply was also included to serve the Cowskin Wastewater Pump Station facility.

17TH STREET NORTH WATER LINE EXTENSION WICHITA, KS

This project included 1,500 feet water line extension along 17th Street North from Belmont Avenue to Oliver along with connecting to an existing 42-inch water line located south of 17th Street North, and 1,300-foot water line extension at 17th Street North and Oliver Street intersection, and connecting to the 12-inch water line located at the intersection of 17th Street North and Oliver. PEC also coordinated efforts of current construction projects in the area and reconnecting existing service lines.

KOCH 37TH STREET WATER LINE RELOCATION, HILLSIDE TO OLIVER WICHITA, KS

This project included design efforts to relocate an existing 20-inch water main along the relocated 37th Street between Hillside and Oliver. More specifically, this project included 5,700 feet of 20-inch water line, installation of three fire hydrants, and abandonment of 2,400 feet of existing 20-inch water main.



37TH STREET NORTH, BROADWAY TO HYDRAULIC WATER LINE WICHITA, KS

This project included design efforts along 37th Street North from Broadway to Hydraulic. More specifically, this project included multiple locations for water line adjustments and reconnection of numerous existing water service lines for the construction of the road and storm sewer improvements.

37TH STREET 12-INCH WATER MAIN EXTENSION, OLIVER AVENUE TO WOODLAWN STREET BEL AIRE, KS

This project included the replacement of approximately 1,300 linear feet of 8-inch water lines, installation of three fire hydrants, reconnection of eight service connections, abandonment of existing pipe across railroad, and reconnection of service for 5540 East 37th Street.

16-INCH WATER MAIN EXTENSION, 135TH STREET TO 151ST STREET WICHITA, KS

This project included design efforts to install a 16-inch water main along Kellogg Avenue between 135th Street West and 151st Street West. More specifically, this project included 4,500 linear feet of 16-inch water line, installation of three fire hydrants, a check valve, and vault. PEC's coordination efforts also included coordination efforts of various utility relocations and Kellogg Frontage Road Improvements.

WATER MASTER PLAN AND WATER LINE REPLACEMENT SOUTH HUTCHINSON, KS

PEC served as Civil Engineer for preparation of the City's Water System Master Plan. The scope included the following items: project coordination, service area definition, data collection, population projections and water demands, water supply evaluation, dynamic modeling, distribution system alternatives, recommended alternatives, final report preparation, and typical updates for a two-year period.

GARDEN CITY WATER SYSTEM CONTROL VALVE GARDEN CITY, KS

The industrial development area, in the SE portion of the distribution system, experienced low pressures and less than needed fire flows under high demand conditions. To address this issue, a control valve was installed and system isolation valves were closed to redefine the pressure zone boundary. This brought the industrial area into the high pressure zone. The valve opens to allow additional flow into the area if system pressures downstream.



WICHITA**GARY JANZEN, PE**

City Engineer
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GARDEN CITY**MIKE MUIRHEAD**

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HAYSVILLE**TONY MARTINEZ**

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NEWTON**SUZANNE LOOMIS, PE**

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VALLEY CENTER**BARRY SMITH**

Assistant City Administrator/Director of Finance
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MEDICINE LODGE**JEFFREY PORTER**

City Administrator
114 West First
Medicine Lodge, KS 67104
620-886-3908
jeffp@medicinelodge.ks.gov

REFERENCES

There is no greater measure of success than a satisfied client. Satisfied clients are repeat clients. A significant volume of the engineering services performed by PEC occurs for existing clients. Our clients include federal, state, and local governments, as well as private sector business. They benefited from our dedication to quality **engineering solutions, timeliness, and cost control.** The following client references will attest to the integrity and competence of PEC. We invite you to contact them for more information about our performance and commitment to excellence in every aspect of the engineering services we offer.



PROJECT TEAM



PRINCIPAL-IN-CHARGE
Mike Kelsey PE



QUALITY ASSURANCE
Alex Darby PE



PROJECT MANAGER
Ryan Glessner PE



**METER AND
WATER LINE DESIGN**
Trevor Kaufman PE
Gage Scheer IE



**PER AND
SRLF FUNDING**
Sarah Unruh PE
Nicole Franken PE



**UTILITY
RESEARCH**
Rob Johnson SET



**GEOTECHNICAL
ENGINEERING**
Britt Clubb PE



**SURVEY
SERVICES**
Chuck Brooksher PS



RYAN W. GLESSNER PE

PROJECT MANAGER

University of Kansas, Bachelor of Science, Civil Engineering, 2008
Professional Engineer - States of Kansas and Oklahoma

Ryan's responsibilities include design, plan, and specification development for various water, wastewater, and site civil projects including grading, paving, drainage, utility layout, and geometric design. He specializes in water lines, sanitary sewer lines, drainage systems, and stormwater projects. His other responsibilities include lift station and pump station design. **Ryan has more than 12 years experience.**

RYAN'S RELATED PROJECT EXPERIENCE INCLUDES:

- Water System Improvements; Medicine Lodge, KS
- 2017 Water Line Replacements; Valley Center, KS
- SE Water Line Improvements; Haysville, KS
- Water Main Replacement; Kechi, KS

MICHAEL D. KELSEY PE

PRINCIPAL-IN-CHARGE

Kansas State University, Bachelor of Science, Civil Engineering, 1991
University of Kansas, Civil Engineering Continuing Education, 1993 Pollution Prevention (NPDES Permitting)
University of Kentucky, Civil Engineering Continuing Education, 1991 KYPIPE Water Modeling
American Council of Engineering Companies, Emerging Leaders Program, 2017
Professional Engineer - States of Kansas, Colorado, and Oklahoma

Mike is the manager of the Municipal Division and on PEC's Board of Directors. He specializes in water lines, drainage systems, stormwater, and sanitary sewer line projects. His other responsibilities include lift station and pump station design, as well as large water mains, sanitary sewer mains, and interceptors. In addition to these responsibilities, Mike serves as Coordinator and Project Engineer for water and sanitary sewer projects for the City of Wichita. He also oversees City Engineering duties for the Cities of Valley Center, Kechi, Benton, Rose Hill, Neodesha, Great Bend, Cherryvale, Medicine Lodge, Greensburg, and Wellington, KS. **Mike has more than 29 years experience.**

MIKE'S RELATED PROJECT EXPERIENCE INCLUDES:

- Water Metering Station Improvements; Derby, KS
- Water Treatment Plant Improvements; Independence, KS
- Water Line Replacements; Valley Center, KS

ALEXANDER M. DARBY PE

QUALITY ASSURANCE

Kansas State University, Master of Science, Civil Engineering. 2010
Kansas State University, Bachelor of Science, Civil Engineering, 2004
Professional Engineer - States of Kansas and Iowa

Alex is responsible for the design of wastewater gravity/force main collection systems, pump stations, and treatment ponds; water distribution, storage and pump station facilities; and site utility assessments. His duties also include the construction and analysis of hydraulic water system models. Alex is proficient in Esri's Geographic Information System software. **Alex has more than 16 years experience.**

ALEX'S RELATED PROJECT EXPERIENCE INCLUDES:

- 19th Street Water Line Replacement; Lawrence, KS
- SW 10th Avenue, Fairlawn Road to Wanamaker Road Water Main Replacement; Topeka, KS
- Water Main Replacement; Kechi, KS



TREVOR B. KAUFMAN PE

METER AND WATER LINE DESIGN

Kansas State University, Bachelor of Science, Civil Engineering, 2013

Professional Engineer - States of Kansas

Trevor's responsibilities include design, plan, and specification development for various water line, sanitary sewer, and site civil projects including grading, paving, drainage, utility layout, and geometric design. His responsibilities also include water distribution system modeling, drainage, and stormwater system modeling and design. Software capabilities include HEC-HMS, Hydraflow, AutoCad Civil 3D, AutoTurn, and WaterGEMS. **Trevor has more than 7 years experience.**

TREVOR'S RELATED PROJECT EXPERIENCE INCLUDES:

- 12-inch Water Line along Broadway, 55th Street South to 63rd Street; Wichita, KS
- SE Water Line Improvements; Haysville, KS
- Water Line Improvements along Maple Street from 162nd Street to 167th Street West and along 167th Street from Maple Street to Apollo Street; Wichita, KS
- Water Main Replacement; Kechi, KS

GAGE A. SCHEER IE

METER AND WATER LINE DESIGN

Kansas State University, Bachelor of Science, Civil Engineering, 2017

Intern Engineer - States of Kansas

Gage's responsibilities include design, plan, and specification development for various site civil projects including grading, paving, drainage, utility layout, and geometric design. Gage's responsibilities also include drainage and stormwater system modeling and design. His software capabilities include HEC-HMS, Hydraflow, and AutoCad Civil 3D. **Gage has more than 3 years experience.**

GAGE'S RELATED PROJECT EXPERIENCE INCLUDES:

- Avenue F Water Line Improvements; South Hutchinson, KS
- 7th Street Water Line Replacement; Haysville, KS
- Waco Water Line Improvements, 1st to Central; Wichita, KS
- Water Line Improvements along Maple Street from 162nd Street to 167th Street West and along 167th Street from Maple Street to Apollo Street; Wichita, KS

SARAH C. UNRUH PE

PER AND SRLF FUNDING

Kansas State University, Bachelor of Science, Civil Engineering, 1999

Professional Engineer - States of Kansas and Oklahoma

Sarah's responsibilities include evaluation and design of municipal and industrial wastewater collection systems and treatment plants; water treatment plants and distribution systems, system hydraulics and pipelines, equipment, pump stations, and site design. **Sarah has more than 20 years experience.**

SARAH'S RELATED PROJECT EXPERIENCE INCLUDES:

- Water Metering Station Improvements; Derby, KS
- Water Treatment Plant Improvements; Independence, KS
- Water Supply Line, Water Wells, and Water System Evaluation; Dodge City, KS
- Water Distribution System Master Plan; Neodesha, KS



NICOLE D. FRANKEN PE

PER AND SRLF FUNDING

University of Kansas, Bachelor of Science, Civil Engineering, 2008
Professional Engineer - States of Kansas, Colorado, Missouri, and Oklahoma

Nicole's responsibilities include utility rate evaluations and studies, water and sewer master planning, evaluation and design of municipal and industrial wastewater collection systems and treatment plants; water treatment plants and distribution systems, system hydraulics and pipelines, equipment, pump stations and site design. **Nicole has more than 12 years experience.**

NICOLE'S RELATED PROJECT EXPERIENCE INCLUDES:

- Water Funding Assistance; Independence, KS
- Water Funding Assistance; Rose Hill, KS
- Irrigation Water Supply Study; Lawrence, KS

ROBERT F. JOHNSON SET

UTILITY RESEARCH

Wichita State University, 1977-1978
Wichita Vocational-Technical School, 1970-1973
Advanced Training in Technical Software Programs
Certified Senior Engineering Technician

Rob is responsible for plan production and AutoCad supervision on sewer collection systems, water distribution systems, raw water transmission lines, and land development projects. He coordinates design requirements and performs calculations necessary for horizontal and vertical control on sewer and water line projects including required legal descriptions. Rob also performs final design calculations, processes survey data, quantity calculations, and aids in preparation of preliminary and final project cost estimates, as well as coordinate standard procedures for plan production and accuracy. He serves as Utility Coordinator for design and survey on all Municipal Division projects.

Rob has more than 45 years experience.

ROB'S RELATED PROJECT EXPERIENCE INCLUDES:

- Water Metering Station Improvements; Derby, KS
- Water Treatment Plant Improvements; Independence, KS

BRITT D. CLUBB PE

GEOTECHNICAL ENGINEERING

Tennessee Technical University, Bachelor of Science, Civil Engineering, 2008
Professional Engineer - State of Kansas

Britt provides customer service, business development, financial management, risk management, and strategic planning for PEC's Materials Section. He is responsible for staffing, recruiting, and staff development through coaching, mentoring, and training. Britt also has experience with local, state, and federal projects including management, submittal review, and budget tracking. **Britt has more than 12 years experience.**

CHARLES W. BROOKSHER PS

SURVEY SERVICES

Professional Surveyor - State of Kansas

Chuck supervises the fieldwork of survey crews. His responsibilities include cost estimation, project coordination, field and office procedures during boundary surveys, design surveys, and office calculations. He has met the requirement and maintains certification to work on hazardous waste sites. Chuck is also responsible for the operation and post processing of GPS surveys for state highways and other projects requiring horizontal and vertical control over large and small areas, using static and real time kinematic GPS procedures. **Chuck has more than 39 years experience.**





SECTION FOUR
**Project Schedule
with Key Milestones**

PROJECT SCHEDULE WITH KEY MILESTONES

TASKS	2020			2021											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Kickoff Meeting															
PER and SRLF Loan Application to KDHE															
Field Survey and Geotechnical															
Preliminary Design and Estimates															
Final Design, Estimates, and KDHE Submittal															
KDHE Review															
Development of AMI Deployment Strategy															
Bid Project															
Project Construction															



ABILITY TO MEET SCHEDULES/DEADLINES

PEC is committed to meeting schedule requirements on our projects. Missing deadlines is not in our DNA. If the initial pace of the schedule is concerning from either a design or construction standpoint, we raise the issue early and brainstorm with the team how to best meet the challenge. We schedule projects with realistic, yet aggressive schedules, to expeditiously complete services. We conduct bi-weekly project management meetings to evaluate scheduling and resource needs. We push for answers from the Owner and other consultants that we require well in advance of when it becomes critical. Regular communication regarding the status of these requests and the items that we owe the rest of the team allow the design process to be less frenetic and more timely.

PEC has a proven approach for keeping projects on schedule and within budget. This process involves dividing the project into manageable tasks in a fully integrated approach, tracked to completion. Cost conscious decision-making with the longest-term benefits result from working together in the evaluation, design and construction phases of the projects. When you are part of the process, there will be no surprises.

Our staff fully understands the importance of meeting deadlines and is aware project success depends on timely completion of infrastructure design. PEC managers purposely schedule projects with realistic deadlines to expeditiously complete our services. We employ computer-aided design and drafting, as applicable, as well as standardized specifications to reduce the time it takes to design a project. Any number of projects will fit comfortably into the present PEC work schedule.

The project schedule is shown on the previous page will be refined to meet the City's needs during the kickoff meeting.

ABILITY TO CONTROL COST/MEET BUDGETS

With PEC, costs are monitored at key points on all phases of the project. All major design decisions are made with cost impact information being provided and checked immediately. Cost control and value engineering have never been more important than they are today. Because of our extensive experience with state and federal agencies, we understand the importance of completing design work on schedule and within the budget. We strive to keep our clients apprised of the probable cost of the project throughout the design process. This is accomplished by preparing construction cost estimates at strategic points along the way that offer increased knowledge of alternatives, project quantities, materials, and construction complexity.



YOU DREAM IT, WE'LL DESIGN IT



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and guide the way.