



REQUEST FOR COMMISSION ACTION
CITY OF INDEPENDENCE
June 25, 2020

Department Administration

Director Approval Kelly Passauer

AGENDA ITEM Consider Requests for Qualifications for Engineering Services for EDA Grant for Whiskey Creek Drainage Improvements (Sycamore Street & 20th Street).

SUMMARY RECOMMENDATION Authorize selecting an engineering firm.

BACKGROUND On May 28, 2020 the City Commission authorized City staff to solicit qualifications for engineering services. Once an engineering firm is selected an application can be prepared along with an official cost estimate and preliminary engineering report for this project. City staff received four applications by the due date of June 18, 2020. A subcommittee consisting of the City Manager, Director of Finance, Director of Safety and Code Enforcement, and Public Works Director reviewed the submissions and assigned the following point values based on 100 points maximum possible:

EBH Engineering	85
Midwest Engineering Group, LLC	79
PEC	94
TranSystems	95

BUDGET IMPACT 20% of the total project plus any additional costs not covered by the grant.

SUGGESTED MOTION I move to select TranSystems to perform engineering services related to an EDA grant for Whiskey Creek drainage improvements in the area of Sycamore and 20th Streets.

SUPPORTING DOCUMENTS

1. Request for Qualifications
2. RFQ's Received



May 28, 2020

Project: EDA Grant for Whiskey Creek Drainage Improvements

City: Independence – Sycamore Street & 20th Street

To whom it may concern:

For special qualifying projects developed under local jurisdiction, the U.S. Economic Development Administration (EDA) has established a process where cities/counties have the option of hiring a consultant to perform certain engineering services. In order to carry out our construction program, we must augment our staff by soliciting interest from consulting firms to perform the construction engineering duties on the above noted project(s) to include preliminary cost estimates, preliminary engineering report and construction engineering services. If your firm is interested in being considered for this project, you must respond by June 18, 2020, 2:00 p.m. Submittals may be sent via email to KellyP@IndependenceKs.gov, or by hard copy.

We intend to follow the procedures stipulated in federal regulations 23 C.F.R. 172 in our selection and negotiation with a consultant. We expect to execute an agreement with a consultant and EDA for the construction engineering. Attached for your review is detailed information describing the project(s) for which we are soliciting interest from consultants. We have also provided the criteria on which the evaluation of firms will be made.

With your letter of reply you should include the following information relative to the category of work proposed with a limit of ten (10) pages per category:

1. A copy of the current Consulting Engineer Qualifications and Questionnaire
2. A signed and notarized copy of the Certification by Prospective Participants as to Current History Regarding Debarment, Eligibility, Indictments, Convictions, or Civil Judgements (Attachment 5B)
3. Capabilities of the firm
4. List of qualified personnel including work history
5. Office locations
6. References
7. Other pertinent information

From those firms expressing interest, the City will contact the most qualified consultants (no fewer than three, no more than five) with specific project details. Firms not selected will be notified by letter. A Negotiation Committee will review the qualifications of the firms and select one with which to begin negotiating a contract. (Note: The Negotiating Committee may desire to obtain additional information from the interested firms). After a proposal has received our approval, the remaining firms will be notified by letter. This proposal will be submitted to EDA for approval and preparation of an agreement.

Sincerely,

Kelly Passauer

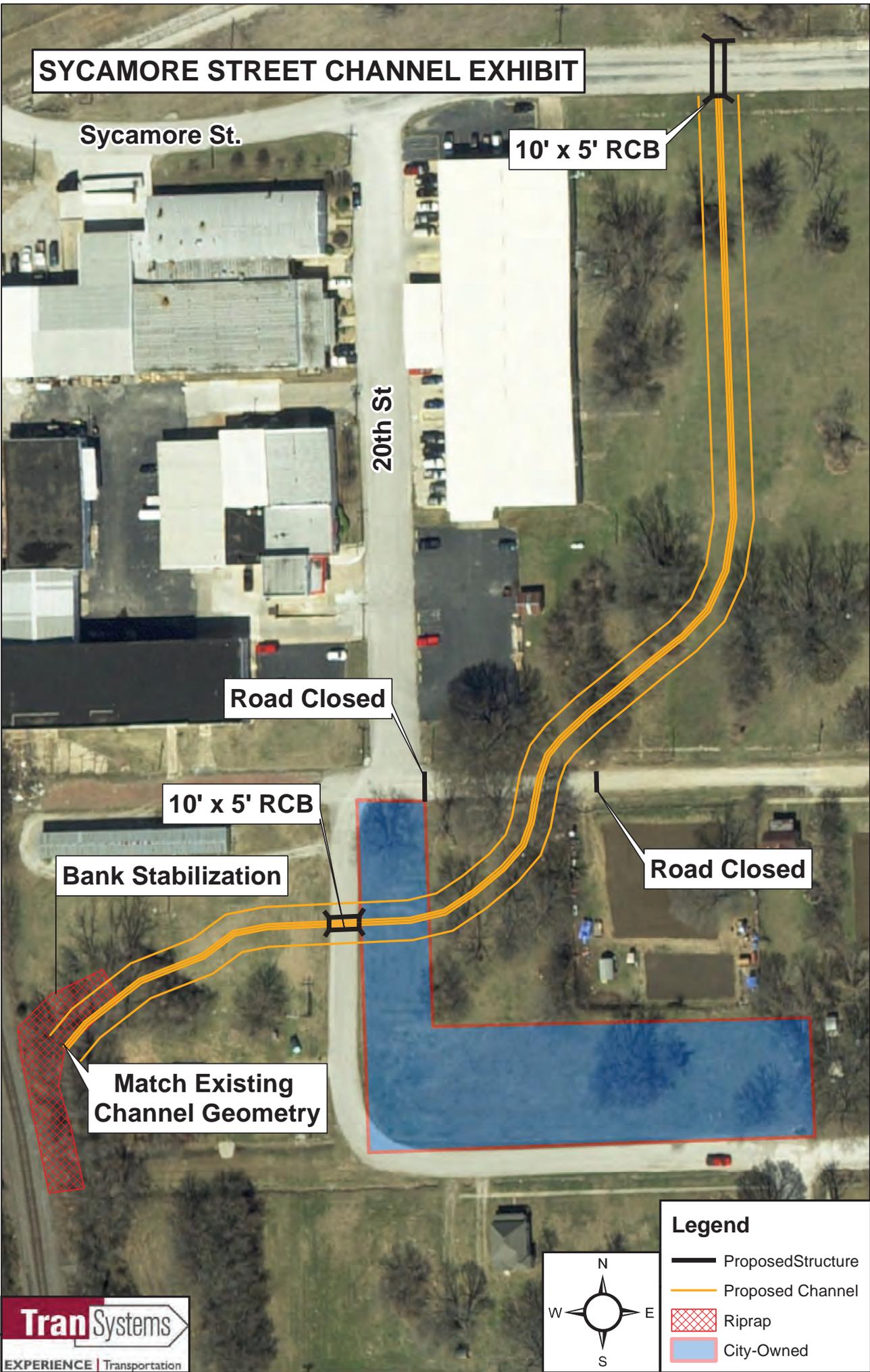
Kelly Passauer, CPM

Acting City Manager/Zoning Administrator

811 W. Laurel Street

Independence, KS 67301

SYCAMORE STREET CHANNEL EXHIBIT



Note: This is a preliminary drawing and the final project may include an additional box culvert in lieu of closing the road.

ENGINEERING SUPPLEMENTAL
DATA SHEET

1. City: Independence, Kansas

2. Project No.: Whiskey Creek Drainage Improvements
 - a. Project Location: _____
 - b. Scope of Work: _____
 - c. Project Length: _____
 - d. Estimated Letting Date: _____
 - e. Estimated Number of Contractor Working Days: _____

3. References that are the normal control for the Construction Engineering:
 - a. Standard Specifications for State Road and Bridge Construction of the Kansas Department of Transportation (2015 Edition).
 - b. Construction Manual
 - c. Forms and Documentation Manual
 - d. Plans, Construction Contract Proposal, and Special Provisions

4. Constructon Engineering duties will include on-site inspection, on-site testing, and contract administration for the project unless specifically noted.
 - a. All inspection personnel must be EDA Certified at the appropriate level.
 - b. A laptop computer is to be furnished by the consultant for their use in Construction Management System (CMS) administration.
 - c. Construction Staking is to be performed by:

Contractor Consultant City/County Not Applicable
in accordance with the Plans (See Summary of Quantities Sheet).

5. The provisions of the Civil Rights Act of 1964, the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990, and Executive Order 12898 (1994) (and any amendments to each) will apply to all firms and will be included as part of the Agreement.

6. Worker's Compensation Insurance will be required for the Consultant's personnel assigned to the project.

7. The Consultant's accounting system must provide:
 - a. Valid, reliable, and current costs to support the firm's cost and pricing data.
 - b. A means of measuring the reasonableness of incurred costs.
 - c. Identifiable and accumulative allowable cost by contract or project records which will reconcile with the general ledger.
 - d. Supporting documentation of actual expenditures for each billing, based on costs.

Certification by Prospective Participants as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments

President, Chairman, or Authorized Official

being duly sworn (or under penalty of perjury under the laws of the United States), certifies that, except as noted below, _____

Agency or Company
or any person associated therewith in the capacity of _____

Owner, partner, director, officer, principal investigator, project director, manager, auditor, or any other position involving the administration of federal funds.

is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years; does not have proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against (it) by a court of competent jurisdiction in any manner involving fraud or official misconduct within the past three years;

Exceptions _____

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder or respondent responsibility. For any exceptions noted, indicate below to whom it applies, initiating agency, and dates of action.

Providing false information may result in criminal prosecution or administrative sanctions.

Sworn to before me, a Notary Public in and for the City of Independence, State of Kansas this _____ day of _____ 2020

Signature

Notary Public

My Commission expires _____

Selection Committee Report

Project Number: Whiskey Creek Drainage Improvements

City: Independence, Kansas

Criteria ¹	Weight amt. (100 pts max) ²	Name of Consulting Firms				
Ability to perform the desired services within the time prescribed						
Past performance of firm						
Training of staff						
Previous experience with similar work and knowledge of EDA project procedures						
Commitment of resources that could limit performance (ex. staff, equipment)						
Firm's familiarity with project area						
Accessibility of firm's office (10 pts max allowed)						
Totals						
Ranking						

¹City/County may use alternate criteria if approved by the EDA prior to starting review process

²City/County must determine maximum amount possible for each category based upon its importance to project (see sample below)

Note: Accessibility of firm's office may be a maximum of 10 points or 10% of total points.



City of Independence

Whiskey Creek Drainage Improvements STATEMENT OF QUALIFICATIONS

JUNE 2020



June 18, 2020

Kelly Passauer
Acting City Manager/Zoning Administrator
City of Independence
811 W. Laurel Street
Independence, KS 67301

Dear Ms. Passauer,

Thank you for the opportunity to present our qualifications to serve the City of Independence on your Whiskey Creek Drainage Improvements project. Our experienced team is your most qualified partner to provide preliminary cost estimates, a preliminary engineering report, survey services, engineering design services, and construction engineering services to complete a successful project.

If you have any questions or desire any additional information, please do not hesitate to contact me. We look forward to working with you on this project.

Helping You Prosper + Grow,



Paul Stoner, Project Manager
PaulS@EBHengineering.com
620.325.5000



TABLE OF CONTENTS

Firm History.....	1
Firm Qualifications.....	2
Project Team.....	3-6
Project Experience.....	7-9
References.....	10
Selection Criteria.....	11
Site Visit Pictures.....	12
Certification by Prospective Participants as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments.....	13

Helping Clients Prosper + Grow

Evans-Bierly-Hutchison & Associates, P.A.

Firm History and Qualifications

EBH & Associates, PA

214 S. 4th Street
PO Box 267
Neodesha, KS 66757

Primary Contact:

Paul Stoner
620.325.5000
PaulS@EBHengineering.com

“EBH cares about their clients and keeping their best interest at heart. I enjoyed working with EBH and would recommend working with their team.”

Bob Churchwell, former
City Administrator,
City of Burlington, CO

GREAT BEND

CIMARRON

GOODLAND

NEODESHA

PRATT

HILLSBORO

MARION

HISTORY & PROFILE

Robert Evans and Gail Bierly established Evans & Bierly Engineers in Great Bend in 1951, with Stuart Hutchison joining in the mid-1960's to form EBH (Evans-Bierly-Hutchison) & Associates, PA. Over the past 69 years, we have continued to grow and develop throughout the State of Kansas strategically adding offices where our clients need us most. Over these years we have provided the highest level of engineering, surveying, and planning services to our private, industrial, municipal, and state government clients.

With seven office locations across Kansas we pride ourselves on continuing to offer our clients personal attention, coupled with the highest echelon of technology and state-of-the-art design. Our staff includes qualified professionals licensed in Kansas, as well as state and nationally certified inspectors. EBH specializes in engineering for rural Kansas communities, assisting with day-to-day engineering needs, as well as completing extensive public works improvement projects.



TECHNICAL QUALIFICATIONS & CAPABILITIES

EBH is a full service engineering firm with a long history of successfully planning, designing, and overseeing construction of stormwater projects. In addition to stormwater projects, we also have expertise in Transportation, Water, Waste Water, Land Development, and Community Enhancement projects. We are capable and experienced with projects varying from several thousand to ten million plus dollars.

Our design team's experience includes multiple stormwater drainage improvement projects. We will use this experience to help utilize the City's EDA grant dollars effectively and properly.

EBH staff keeps up-to-date through involvement in numerous professional organizations, attendance of professional seminars and through certifications for KDOT and CDOT inspection, CDOT Traffic Control, ACI field testing, and OSHA Workplace Safety.

We utilize the latest technology, including AutoCAD 2017 Civil3D design suite software, GPS and robotic survey equipment, nuclear density soil gauges, and a 3D mapping drone.

Firm Qualifications

TECHNICAL QUALIFICATIONS & CAPABILITIES (Continued)

EBH has won numerous other state and national awards for roadway and water systems engineering, from the American Concrete Pavement Association, the Kansas Asphalt Pavement Association, the American Council of Engineering Companies of Kansas, and KDOT Partnering.

Several EBH projects have been featured in KRWA *Lifeline* magazines and have also been featured in nationally distributed *Stormwater* magazine.

QUALIFICATIONS & EXPERIENCE

While we understand that a local project funded through the U.S. Economic Development Administration would not require design or construction engineering to follow Kansas Department of Transportation guidelines, standards and procedures, the following information is included to provide you with insight to EBH Engineering's qualifications and project experience that would be applied to your project.

EBH is KDOT prequalified for major and minor facility design, surveying, and inspection/testing, among others categories. We also have an "As-Needed Agreement for Engineering and Technical Services for Local Public Authority (LPA) Projects" with KDOT, allowing us to perform construction engineering services on KDOT funded local projects without the local entity having to carry out a consultant selection process.

Since 1990 EBH has completed over **100** KDOT funded projects for municipalities and counties. EBH is well versed in the procedures for local project development.

EBH staff includes nine KDOT certified inspectors, some of which are placed full time on projects, while others are available for short duration projects and fill-in assignments.

PROXIMITY & FAMILIARITY

This project will be managed from our Neodesha office. Our proposed Project Manager has made a site visit to the project area to become acquainted with the opportunities and challenges this project will present. With offices located throughout rural Kansas, not only do we work here, *we live here*. This allows us to provide a unique perspective with an understanding of local issues and a level of concern that is unmatched.

I would recommend working with the team at EBH, because, they are honest, knowledgeable, and reliable."

Jeff Acton, City of Cimarron



Your Team

EBH has developed a team that will meet the needs of the City of Independence through our experience, familiarity, and proximity. Our Project Manager, Paul Stoner, will be based out of EBH's Neodesha, Kansas office location. Darin Neufeld, PE will serve as Lead Design and Construction Engineer on the project. As manager of EBH's Hillsboro and Marion offices, Darin brings to the project extensive experience with drainage projects, and experience *living and working* in rural Kansas. Darin will utilize his experience, that of his office's staff, as well as the collective resources of the entire EBH staff to meet all needs of the project and ensure the best use of grant funds.

The following pages include the EBH professionals which are anticipated to be involved in the project.



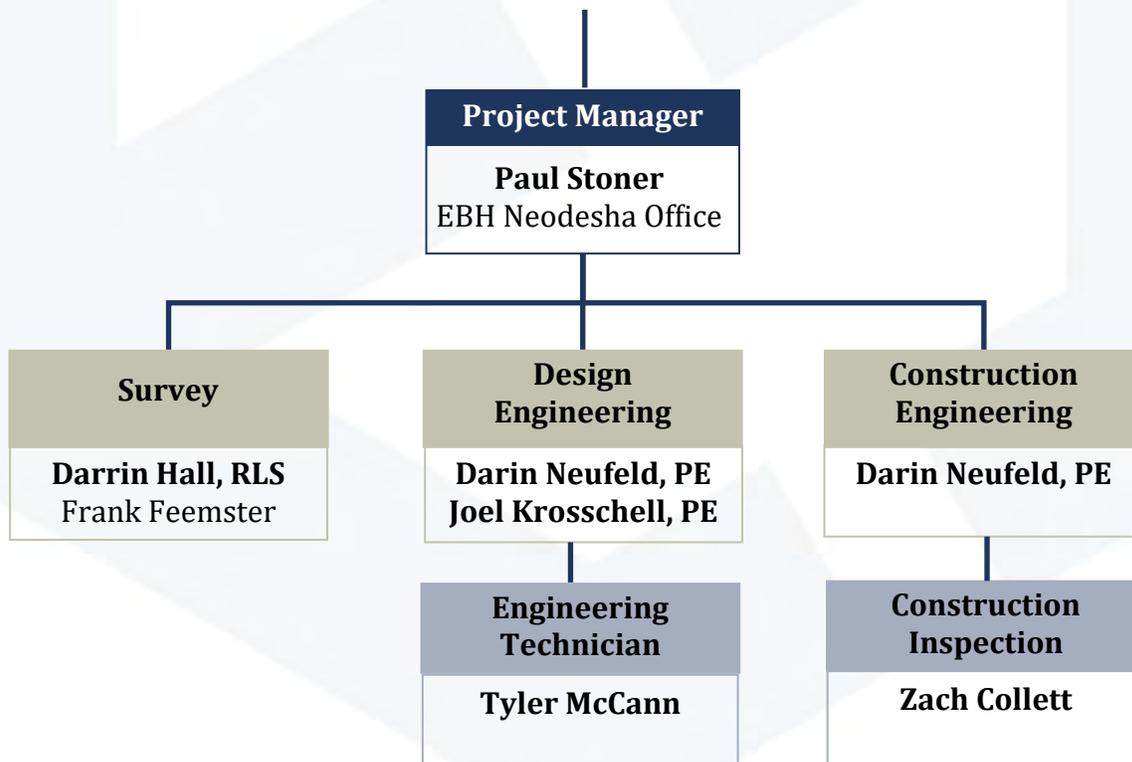
Paul Stoner
Project Manager



Joel Krosschell, P.E.



Darin Neufeld, P.E.



Your Team

DARIN NEUFELD, PE **Lead Design Engineer**

As a Vice-President of EBH, Darin has over 27 years experience in all aspects of Civil Engineering. Darin manages and provides planning, design, and construction engineering for both structural and airport projects company-wide. Darin is also performs general municipal engineering, with management of street, highway, subdivision, stormwater, utility, sanitary sewer, and water system improvements. Darin also has extensive experience around the world engineering structures, pavements, drainage, water distribution, water wells, water treatment, and sanitary sewer collection and treatment during his time as Lieutenant Colonel in the United States Air Force. Darin serves as the on-call engineer for the cities of Marion, Hillsboro, Lincolnville, Clifton, Burns, and the airports at Oakley, Goodland, Scott City, Cimarron, Anthony, Marion, and Hillsboro.

Darin's key project experience includes:

- Marion County – 290th & Nighthawk Drainage Study and Improvements
- Hillsboro – North Streets Drainage Study & Improvements
- Marion County – 330th & Chisholm Trail Box Bridge Replacement
- Marion – Clear Creek Bank Stabilization
- Marion – Clear & Mud Creek Drainage Study & Improvements
- Hillsboro – Adams Street Drainage Study & Improvements
- Hillsboro – US-56 & Industrial By-Pass & Turn Lanes
- Grant Programs from the FAA, KDOT Aviation, KDOT Highway, KDOT Transportation Alternatives (TA), KDOT Economic Development, KDOT Cost Share, KDHE, USDA, & CDBG

JOEL KROSSCHELL, PE **Storm Water Design Engineer**

As a Vice-President of EBH, Joel has over 27 years of experience in the planning, design and construction management of highways, streets, subdivisions, bridges, stormwater, and utility improvements. In addition to his planning, design and construction management responsibilities, he provides technical input in the development of city comprehensive plans, drainage plans, and environmental assessments. Joel is especially experienced with KDOT funded projects and provides specialized transportation and drainage design for EBH company-wide. As manager of EBH's southwest Kansas office, Joel also serves as the primary contact and manager for EBH's on-call relationships with the cities of Cimarron, Montezuma, Elkhart, Holcomb, Spearville, WaKeeney, Lakin, as well as Finney County Drainage Districts 1 and 2.

Joel's key project experience includes:

- Coldwater Drainage Study
- Finney County Drainage District No. 2 Drainage Study
- Leoti Drainage Study
- Ellinwood Culvert System Reconstruct and Drainage System
- Pratt Maple Street RCB
- Lakin Drainage System Upgrades
- Elkhart US 56 Geometric with RCB Extensions



Education
B.S. Architectural Engineering
Kansas State University

Registrations
Professional Engineer
Kansas & Colorado

Experience
27 Years total (EBH 22 Years)

Certifications
KDOT Inspection
ACI Concrete Testing
Right of Way Certification



Education
B.S. Architectural Engineering
Kansas State University

Registrations
Professional Engineer
Kansas & Colorado

Experience
27 Years total (EBH 26 Years)

Certifications
KDOT Inspection
ACI Concrete Testing
Right of Way Certification

Your Team



PAUL STONER
Project Manager

As the Office Manager of the EBH Neodesha office, Paul works extensively with communities throughout Kansas on projects funded by the Kansas Department of Transportation's Transportation Alternatives (TA) program and Safe Routes to School (SRTS) program. He has worked with city officials and city appointed task groups to prepare grant applications for projects in both the Pedestrian and Bicycle Facility and Scenic and Environmental categories in the TA program. EBH has achieved an outstanding success rate for their clients in this program. Other work has ranged from development of feasibility studies and reports of findings to completion of detailed construction drawings and contract documents for diverse municipal projects. Related project design and management experience includes:

- City of Hugoton - Hugoton Downtown Streetscape
- City of Leavenworth - Downtown Streetscape Project
- City of Scott City - Downtown Visual Enhancement Project
- City of Dighton - Dighton Downtown Streetscape Project
- City of Elkhart - Whistle Stop Park Trail Project
- City of WaKeeney - WaKeeney Downtown Streetscape Project
- City of Neodesha - Safe Routes to School
- City of Hillsboro - Safe Routes to School
- City of Cimarron - Safe Routes to School
- City of Hugoton - Safe Routes to School

Education

B.S. Architectural Engineering
Kansas State University

Experience

28 Years
18 Years with EBH

Certifications

KDOT Right of Way Certification



DARRIN HALL, RLS
Survey Manager

As the senior survey manager for EBH, Darrin has over 20 years of surveying experience, working a variety of projects throughout Kansas, Missouri, and Oklahoma. He has planned, researched and performed Static and Rapid Time Kinematics (RTK) field surveys for various highway, street, bridge, drainage, stormwater, and airport projects. Darrin has conducted a wide variety of topographic, boundary, and right-of-way surveys. Darrin is responsible for contact with design engineers, clients, and daily project survey needs. Darrin and his survey crew have extensive experience throughout Kansas.

Registrations

Registered Land Surveyor
Kansas, Missouri,
Arkansas

Experience

26 Years
6 Years with EBH

Your Team

ZACH COLLETT

Engineering Technician/Inspector

As an Engineering Technician and Inspector for EBH, Zach Collett is responsible for project development, estimating, CAD generation, field data collection, inspection, testing, and documentation. He spent the 2 years prior to coming to EBH as the Field Construction Engineer for Hensel Phelps Construction in Fort Collins, Colorado. During this time, he worked closely with the project owner, engineers, architects, as well as managed the coordination of the many subcontractors working on the project to ensure the adherence of the tight specifications and timelines for the project. Prior to this, Zach spent 5 years in the Navy as a submarine communications technician.

Zach's key Project Experience includes:

- Marion KLINK—K256 Mill/Overlay
- Microsoft CYS05 Data Center Field Construction Engineer—Cheyenne, Wyoming
- Hillsboro Street Improvements—Waterline Streets Replacement
- Hillsboro Street Improvements—East Grand, Washington, Lincoln and Jefferson Streets Replacements
- Marion Coble Street Addition Sanitary Sewer Extension and Drainage Improvements



Zach Collett

Experience

3 Years
1 Year with EBH

Certifications

KDOT Inspection
ACI Inspection

TYLER MCCANN

Engineering Technician

As a CAD Design Technician with over 8 years of experience, Tyler will provide drafting and modeling services on the project. Tyler has experience in mapping, creating computer models for project design, calculating quantities, and creating construction plans.

He has been involved in producing plan sets for a wide range of design projects, including wastewater treatment facilities, water treatment facilities, water supply systems, wastewater collection systems, drainage improvements and street reconstruction. Tyler has extensive experience with KDOT project plan development and is the company's leading expert in AutoCAD Civil 3D modeling.



Tyler McCann

Education

A.S., Drafting Technology
Cowley County C.C.

Experience

8 Years

Project Experience

HILLSBORO NORTH STREETS DRAINAGE IMPROVMENTS 2019

The City of Hillsboro partnered with EBH to complete 40 blocks of street replacement within the city.

- Utilized local bonding
- Reconstructed approximately 40 blocks of street
- Included 3 new RCB cast in place structures
- Construction cost of \$3.2 million
- EBH performed design, construction engineering and testing services



LAKIN DRAINAGE—2019

EBH helped the City of Lakin complete the installation of 700 feet of drainage pipe.

- Work included storm pipe, concrete slope protection, inlets and manholes
- Construction cost of \$140,000
- EBH performed design and construction engineering services for the City



ELLINWOOD CULVERT—2018

The City of Ellinwood partnered with EBH to construct drainage improvements on the perimeter of the City.

- Steel Arch Culverts
- 42" RCP with inlets, end sections and manholes
- Construction cost of \$130,000
- EBH performed design and construction engineering services for the City



Project Experience

MARION COUNTY 330th ROAD—2017

Marion County partnered with EBH to completely rehabilitate an 8 mile section of 330th Road, from K-15, west to the McPherson County Line.

- Project reconstructed the entire roadway with new base and asphalt surface
- Project included the replacement of a box culvert at the intersection of Chisholm Trail and 330th
- Construction cost of \$2.2 million
- EBH performed design, construction engineering and testing services



HILLSBORO ADAMS STREET IMPROVEMENTS—2012

EBH helped the City of Hillsboro secure local bond funding to reconstruct a 0.5 mile section of Adams Street from US56 to the High School.

- Project included new base with concrete surface roadway, curb & gutter, inlets, piping and 2 RCB's
- Alleviated drainage ditches along roadway edges by adding curb & gutter
- Construction cost of \$890,000
- EBH performed design, construction engineering and testing services



ELKHART US56 GEOMETRIC IMPROVEMENTS—2018

EBH helped the City of Elkhart secure a KDOT Geometric Improvement project. A section of this project included extending the existing RCB to meet new design requirements.

- Completed highway turning lanes and widened city street access off of highway
- Included extending RCB and adding curb & gutter
- Construction cost of \$536,500
- EBH performed grant application, design and construction engineering services for the City



Project Experience

Project Highlight Pratt Maple Street RCB

The City of Pratt utilized local funding and retained EBH for professional services to add a drainage structure over Sandy Creek to open a new connection from K61 to the City.

- 4 Cell 18 foot by 6 foot by 40 foot RCB
- Total construction cost \$190,000
- EBH performed project planning, cost estimating, design services, and construction engineering services on behalf of the City



References

Please feel free to contact any of these references, as well as any other communities listed on our experience pages to discuss our dedication, reputation, ability to meet schedules and budgets, and the *quality* of our work.

Roger Holter, City Administrator

City of Marion
620.382.3703
roger@marionks.net

Larry Paine, City Administrator

City of Hillsboro
620.947.3162
LPaine@cityofhillsboro.net

Michael Heinitz, City Administrator

City of Lakin
620.355.6252
lakinca@gmail.com

Chris Komarek, City Administrator

City of Ellinwood
620.564.3161
ckomarek@cityofellinwood.com

“EBH is always willing to jump in and help with any project, not just with the design but onsite, too. They have knowledgeable, reliable staff that quickly respond when we need something and produce quality civil engineering services to our city. They have good, quality people that we enjoy working with on our projects

Gerry Bieker, former City Manager,
City of Goodland

“When we had questions and didn’t know what to do, we would call them to ask them for advice and guidance. We would highly recommend working with EBH on your next project.”

Carol Sibley, City of Minneola

SELECTION CRITERIA

ABILITY TO PERFORM THE DESIRED SERVICES WITHIN THE TIME PRESCRIBED

While our clients certainly keep us busy, our current and projected workload is such that EBH can ensure our performance within the time frame prescribed to meet the City of Independence and EDA's schedule requirements. EBH will begin work immediately upon approval by the City of Independence and EDA.

PAST PERFORMANCE OF FIRM

EBH Engineering has not done any previous engineering design work for the City of Independence. As you can see from our related project experience and references contained herein, we conduct our work in a professional manner, providing innovative design and construction engineering within the project timeline.

TRAINING OF STAFF

Please refer to our Project Team pages for individual team member's education, professional licensing, and certification information. EBH staff keeps up-to-date through involvement in numerous professional organizations, attendance of professional seminars and through certifications for KDOT and CDOT inspection, CDOT Traffic Control, ACI field testing, and OSHA Workplace Safety.

PREVIOUS EXPERIENCE WITH SIMILAR WORK AND KNOWLEDGE OF PROJECT PROCEDURES

The similar work is being shown on the pages in this document labeled Project Experience.

COMMITMENT OF RESOURCES THAT COULD LIMIT PERFORMANCE

We have the survey and design staff in house to get started on this project and keep it on track for the City of Independence. Upon award of this project to EBH, we are fully prepared to move forward with all necessary resources to complete this project as required.

FIRM'S FAMILIARITY WITH PROJECT AREA

A site visit was made to become familiar with the project area. Our project manager for this project will be moving to Independence in the near future, and endeavors to keep abreast of the local issues. He has children currently enrolled and recently graduated from USD 446.

ACCESSIBILITY OF FIRM'S OFFICE

This project would be managed from our office at 214 S. 4th Street in Neodesha. Our design engineer for this project works from our Marion office, a two hour drive northwest of Independence.

ACCOUNTING SYSTEM

EBH's accounting system meets the requirements stated in the RFQ and is audited routinely by KDOT.

INSURANCE & FEDERAL PROVISIONS

EBH carries workers compensation, as well as professional, automotive, and general liability insurance. Copies of insurance certifications are available upon request.

Site Visit Pictures



North end of storm water pipe.
North side of West Sycamore Street.



South end of storm water pipe
near Union Pacific railway tracks



Bank erosion near Union Pacific railway tracks.

Certification by Prospective Participants as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments

Paul Stoner, Project Manager

President, Chairman, or Authorized Official

being duly sworn (or under penalty of perjury under the laws of the United States), certifies that, except as noted below, Evans, Bierly, Hutchison and Associates, P. A.

Agency or Company

or any person associated therewith in the capacity of Owner, Design Engineer, Project Manager, Construction Observer, or any other position involving the administration of federal funds.

Owner, partner, director, officer, principal investigator, project director, manager, auditor, or any other position involving the administration of federal funds.

is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years; does not have proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against (it) by a court of competent jurisdiction in any manner involving fraud or official misconduct within the past three years;

Exceptions None

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder or respondent responsibility. For any exceptions noted, indicate below to whom it applies, initiating agency, and dates of action.

Providing false information may result in criminal prosecution or administrative sanctions.

Paul Stoner

Signature

Sworn to before me, a Notary Public in and for the City of Independence, State of Kansas this 17th day of June 2020

Danika Herring

Notary Public

My Commission expires 12-14-2022



QUALIFICATIONS FOR ENGINEERING SERVICES

City of Independence, KS
June 18, 2020

Rail Bridge

Sycamore St

Rail Bridge Center Laurel St

ridge/Hwy75



25A N. MAIN • SAPULPA, OK 74066
1825 20TH RD • THAYER, KS 66776
WWW.MIDWEST-ENGINEERS.COM • 918.264.9405





June 18, 2020

Kelly Passauer, CPM
Acting City Manager/Zoning Administrator
811 W. Laurel Street
Independence, KS 67301

Many citizens rely on the City of Independence to protect their private property from natural storm water occurrences. Midwest Engineering Group (Midwest) understands the demands of the general public and their reliance upon safe, affordable, easily-accessible systems. Midwest families live, shop and worship in the area and your customers are our friends and neighbors ~ we will treat them the way we want to be treated. We will provide the City of Independence with professional engineering and consulting services to efficiently meet the public's demand, respectfully and conscientiously. We believe we can add significant value to the Independence team for the following reasons:

Attention to detail with high accuracy: Our designers have on-the-ground practical experience and understand constructability issues. We design systems that can be built effectively and efficiently. This depth of knowledge results in a level of accuracy in design and maintaining project schedules that meets industry standards.

Client Relationships: Midwest is a small firm which allows us to provide personal communication and a level of service that meets the project requirements. We strive for constant communications - a key component for project success. Our abilities will be strengthened by maintaining a positive relationship with you.

Value to Clients: We believe this is achieved by working directly with your staff, the client and the community to recognize challenges and realize solutions. By respecting the opinion of our customers, our partnership will continue to provide value to the community.

The engineering firm you choose is an important decision. When you choose Midwest, you are putting your faith in reliable, dedicated people striving to provide you with intelligent and practical engineering solutions. Our common sense approach produces workable, constructible, value-driven design projects.

At Midwest, we value traditional American principles of honesty, integrity, respect, and hard work. We invite you to read through our qualifications and call our previous clients. Like them, you need results, and that's what we provide. We're a results-based company and ultimately, so are you. Thank you for the opportunity to present our statement of qualifications. We look forward to working with you.

Sincerely,

Daniel L. Coltrane, P.E., Owner
Midwest Engineering Group

TABLE OF CONTENTS

Cover Letter

Table of Contents

Narrative:

Consulting Engineer Qualifications and Questionnaire	1
Certification re: Debarment History, Etc.	12
Capabilities of the Firm.....	13
Qualified Personnel	16
Office Locations	20
References	21
Other Pertinent Information.....	22
Cost Estimate	30-31

KANSAS DEPARTMENT OF TRANSPORTATION CONSULTANT QUALIFICATION QUESTIONNAIRE

The Consultant Qualification Questionnaire must be updated annually with qualifications, supplementary information, and the firm's experience. Information furnished may be audited or verified as deemed necessary by KDOT. Firms can check the website <http://www.ksdot.org/divEngDes/prequal/consultants/default.aspx?page=consultlist> 6 weeks after quarterly due date for their pre-qualification status. Please email the .PDF version to KDOT.DesignContracts@ks.gov . If you have any questions please contact David Lutgen, P.E. at KDOT.DesignContracts@ks.gov or (785) 291-3889.

Firm Name: Midwest Engineering Group, LLC

Business Structure

Individual ()
Partnership ()
Corporation ()
Other LLC

DBE Certified in Kansas

Minority Business (MBE) ()
Woman Business (WBE) ()

Date firm established 3/22/2018

Federal Employee Identification Number (FEIN) 82-4811218

Enter the address with zip code, telephone number and person to contact in the main office and branch offices. The person to contact must a duly authorized by the firm to speak for the firm and bind the firm on policy and contractual matters.

	<u>Main Office</u>	<u>Branch Office</u>	<u>Branch Office</u>	<u>Branch Office</u>
Person to Contact:	<u>Daniel L. Coltrane, P.E.</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Title:	<u>Owner/Principal</u>	<u></u>	<u></u>	<u></u>
Address:	<u>25-A N. Main Street</u>	<u></u>	<u></u>	<u></u>
City, State, Zip + 4:	<u>Sapulpa, OK 74066</u>	<u></u>	<u></u>	<u></u>
Telephone:	<u>918-264-9405</u>	<u></u>	<u></u>	<u></u>
E-mail address*:	<u>dcoltrane@midwest-engineers.com</u>	<u></u>	<u></u>	<u></u>

*Annual Prequalification renewal notice will be by e-mail. Project solicitations will be published in the *Kansas Register*; KDOT may also provide solicitation notice by email.

Does your firm comply with the following state requirements?

YES NO N/A

Is Firm properly registered and in good standing to do business with the State of Kansas (KSA 17-7302)

(X) () ()

Non-resident firms are to file with the Office of the Secretary of State an instrument appointing a resident of the State of Kansas as a process agent. Visit the Secretary of State’s website at sos.kansas.gov for the required “Filings and Forms.”

() () (X)

KDOT requires all firms to have a Quality Assurance Plan. Does your firm have a Quality Assurance Plan?

(X) ()

KDOT requires all firms have professional liability insurance. Does your firm have professional liability insurance?

(X) ()

Does firm have a valid and reliable accounting system capable of providing and supporting FAR compliant costs and pricing data, capable of identifying and accumulating allowable costs by contract or project records, and reconcilable to general ledger? (New firms are required to submit a completed 2012 AASHTO Audit Assurance Form- Appendix B)

(X) ()

KDOT requires successful completion of the FHWA-NHI-#130055 course (Safety Inspection of In-Service Bridges) for several categories. Has a member of your firm completed the course?

(X) ()

Kansas law requires all firms offering and/or practicing technical services to be registered with the Kansas State Board of Technical Professions in the appropriate Profession(s) for the services provided (please check all that apply): **Engineering**(X), **Land Surveying**(), **Geology**(), **Landscape Architecture**(), **Architecture**()

KSA 74-7001 requires any person practicing any technical profession in the state to be licensed with the Kansas State Board of Technical Professions. Visit the Kansas State Board of Technical Professions’ website at www.ksbtp.ks.gov for the required forms.

Show the number of persons registered in the following professions:

	KS	Total		KS	Total		KS	Total
Professional Engineer	(2)	(2)	Architect	()	()	Professional Geologist	()	()
Professional Surveyor	()	()	Landscape Architect	()	()	KDOT Certified Const. Inspector	()	()

Bridge Inspection Team Leaders: Routine (1), Element Level (1), Fracture Critical (1), Underwater (), Pin & Hanger (1)

KDOT requires supplemental information for qualification in the Geotechnical (311), Materials Testing (312), Geotechnical Specialty Services (333,) and Subsurface Utility Engineering (334) categories. Please submit a listing of equipment for the services which can be provided.

Personnel: List the number of personnel within your office. Multi-registered personnel should be counted only in their primary discipline. Clerical personnel should be included in "Administrative". Other disciplines should be entered in the closest discipline.

DISCIPLINE	BLACK		HISPANIC		AMERICAN INDIAN OR ALASKAN NATIVE		ASIAN OR PACIFIC ISLANDER		TOTAL MINORITIES		NON-MINORITY GROUP		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Administrative												1		1
Architects														
CADD Operators / Eng. Tech / Detailers											1	2	1	2
Certified Photogrammetrist														
Certified Value Eng. Specialists														
Civil Engineers											4		4	
Commercial Divers, Licensed														
Economists														
Electrical Engineers														
Environmental Engineers														
Estimators														
Geologists, Geotechnical Engineers														
Hydrologists														
Landscape Architects														
Mechanical Engineers														
Planners: Urban / Regional														
Sanitary Engineers														
Structural Engineers														
Surveyors														
Traffic Engineers														
TOTAL											5	3	5	3

Total number of employees' 8

Staff - Complete the following for the professional staff employed by the firm who may be assigned to KDOT projects. Attach extra sheets as necessary, number them 6A, 6B, 6C, etc.

Name	Total	Present	Probable
Daniel L. Coltrane, P.E., Principal	Years of Experience 21	Position Principal/Owner	Project Assignment Principal

Education (University, Degree, Year, Specialization):
Kansas State University, B.S., Civil Engineering, 1993

Registration (Category, State, Date, Kansas Registration Number, if any):
Professional Engineer, KS, 1/26/1999, PE 15342
Professional Engineer, OK, 12/19/2007, PE 23060
Professional Engineer, MO, 09/02/2002, PE 2002024009

Membership and Activities in Professional Societies:

<u>Professional Society Name</u>	<u>Grade of Membership</u>	<u>Offices Held</u>

Record of Experience on Transportation Projects:
 YEARS

From - To	Position	Firm	Types of Work/Responsibilities
<u>June 1993 - Oct 2017</u>	<u>Area Manager - Water Resources South</u>	<u>Shafer, Kline & Warren</u>	<u>Division Leader/Manager</u>

Staff - Complete the following for the professional staff employed by the firm who may be assigned to KDOT projects. Attach extra sheets as necessary, number them 6A, 6B, 6C, etc.

<u>Name</u>	<u>Total</u>	<u>Present</u>	<u>Probable</u>
	<u>Years of</u>	<u>Position</u>	<u>Project</u>
<u>Dustin Berry, P.E.</u>	<u>Experience</u> <u>15</u>	<u>Project Engineer</u>	<u>Assignment</u> <u>Project Engineer</u>

Education (University, Degree, Year, Specialization):
University of Missouri, B.S., 2010, Civil Engineering
University of Central Missouri (UCM), B.S., 2003, Computer Aided Drafting

Registration (Category, State, Date, Kansas Registration Number, if any):
Professional Engineer, Civil Engineering, Kansas, PE 26877
Professional Engineer, Civil Engineering, Missouri, PE 2015000530
Professional Engineer, Civil Engineering, Iowa, PE P25354
Professional Engineer, Civil Engineering, Oklahoma, PE 31899
 Membership and Activities in Professional Societies:

<u>Professional Society Name</u>	<u>Grade of Membership</u>	<u>Offices Held</u>	<u>Year</u>
<u>Missouri Department of Transportation LPA Advisory Committee</u>	<u>Member</u>		<u>2020</u>

Record of Experience on Transportation Projects:
 YEARS

<u>From - To</u>	<u>Position</u>	<u>Firm</u>	<u>Types of Work/Responsibilities</u>
<u>2010 - 2020</u>	<u>Program Manager + Lead Bridge Engineer</u>	<u>Shafer, Kline & Warren / McClure</u>	<u>Structural Design for bridges</u>
<u>2005 - 2010</u>	<u>Engineering Technician & Construction Observer</u>	<u>SKW (now McClure)</u>	<u>LPA Bridges</u>

Staff - Complete the following for the professional staff employed by the firm who may be assigned to KDOT projects. Attach extra sheets as necessary, number them 6A, 6B, 6C, etc.

Name	Total	Present	Probable
	Years of	Position	Project
<u>Holly Powers</u>	Experience <u>20</u>	<u>Project Manager</u>	Assignment <u>Project Manager</u>

Education (University, Degree, Year, Specialization):

Pittsburg State University, B.S., 2003, Engineering Technology

Registration (Category, State, Date, Kansas Registration Number, if any):

Membership and Activities in Professional Societies:

<u>Professional Society Name</u>	<u>Grade of Membership</u>	<u>Offices Held</u>	<u>Year</u>

Record of Experience on Transportation Projects:

YEARS

From - To	Position	Firm	Types of Work/Responsibilities
<u>2011 - 2018</u>	<u>Project Manager / Construction Inspection</u>	<u>Shafer, Kline & Warren</u>	<u>Project Management / Construction Inspection</u>

Professional Services Fees - Summarize the volume of transportation related services performed during each of the past five years, in terms of fees received.

YEAR	LOCATION STUDIES	ENVIRONMENTAL STUDIES	DESIGN AND PLANS	SUPERVISION OF CONSTRUCTION	OTHER (INDICATE NATURE)
a. Kansas Department of Transportation projects:					
	Midwest Engineering Group is a start up engineering firm with no current KDOT project experience. Please refer to MEG resume sheets for past KDOT project experiences with previous employers				
b. All other public Transportation projects in Kansas:					
c. All other Transportation projects not included above:					

Service Category No. _____

(See page 9 and "Blue Book" <http://www.ksdot.org/bureaus/divengdes/prequal/default.asp> for category requirements/description)

Relevant Projects: List five (5) projects and adequately describe the Service category work, completed within the last 5 years, which best illustrate the firm's experience in this category. List the employee name(s) and the firm when the service was performed. Projects may be listed on all appropriate service categories. **Use one page for each Service Category requested on page 9.**

PROJECT NUMBER AND YEAR COMPLETED	NAME OF EMPLOYEE AND FIRM (PRIME or SUB)	OWNER, REFERENCE NAME, and PHONE NO.	LOCATION, DESCRIPTION, LENGTH TYPE OF STUDY OR CONSTRUCTION (FIRM'S ROLE)	CONSULTING FEE (\$1,000's)
(1)				
(2)				
(3)				
(4)				
(5)				

Midwest Engineering Group is a start up engineering firm with no current KDOT project experience. Please refer to MEG resume sheets for past KDOT project experiences with previous employers

Service Categories - Indicate the Service Categories which your firm is requesting pre-qualification for. Refer to the “1050 Pre-qualification Category Definitions” at <http://www.ksdot.org/bureaus/divengdes/prequal/default.asp> for descriptions of the categories and requirements. **There Must Be a Page 8 (Service Category) for each category requested on this page.**

<p><u>TRANSPORTATION PLANNING</u></p> <p>Modal Planning</p> <p><input type="checkbox"/> 111 Rail Systems Planning</p> <p><input type="checkbox"/> 121 Aviation/Airport Planning</p> <p><input type="checkbox"/> 131 Ports and Waterways Systems Planning</p> <p><input type="checkbox"/> 141 Bikeway and Pedestrian Facilities Planning</p> <p><input type="checkbox"/> 151 Public Transit Facilities and Systems Planning</p> <p>Transportation Facilities Planning</p> <p><input type="checkbox"/> 161 Corridor / Project Feasibility Studies</p> <p><input type="checkbox"/> 162 Long Range Planning</p> <p><input type="checkbox"/> 163 Congestion Management / ITS</p> <p>Environmental Impact Studies</p> <p><input type="checkbox"/> 171 Environmental Documentation</p> <p><input type="checkbox"/> 172 Site Assessments</p> <p><input type="checkbox"/> 173 Noise Impact Analysis</p> <p>Transportation Enhancement Planning</p> <p><input type="checkbox"/> 181 Corridor Enhancement / Scenic Byways</p> <p><input type="checkbox"/> 182 Parks and Recreational Planning</p> <p><u>TRANSPORTATION ENGINEERING AND DEVELOPMENT</u></p> <p>Pre-Const. Eng. and Project Mgmt.</p> <p><input type="checkbox"/> 201 Location and Design Concept Studies / Corridor Studies</p> <p><input checked="" type="checkbox"/> 203 Value Engineering</p> <p><input type="checkbox"/> 211 Highway Design - Major Facility</p> <p><input type="checkbox"/> 212 Highway Design - Minor Facility</p> <p><input checked="" type="checkbox"/> 221 Non-Standard Span Bridge Design</p> <p><input checked="" type="checkbox"/> 222 Standard Span Bridge Design</p> <p><input type="checkbox"/> 231 Traffic Control Analysis and Design</p> <p><input checked="" type="checkbox"/> 241 Construction Inspection</p>	<p><u>PROFESSIONAL - TECHNICAL SUPPORT SERVICES</u></p> <p>Surveying</p> <p><input type="checkbox"/> 301 Land Surveying</p> <p><input type="checkbox"/> 302 Engineering Surveying</p> <p>Geotechnical and Material Testing</p> <p><input type="checkbox"/> 311 Geotechnical Engineering Services</p> <p><input type="checkbox"/> 312 Materials Laboratory Testing Services</p> <p>Bridge Evaluation Services</p> <p><input checked="" type="checkbox"/> 321 Bridge Structural Analysis</p> <p><input checked="" type="checkbox"/> 322 Bridge Inspection</p> <p><input type="checkbox"/> 323 Underwater Bridge Inspection</p> <p><input checked="" type="checkbox"/> 324 Bridge Deck Evaluation</p> <p><input checked="" type="checkbox"/> 325 Hydraulic and Hydrologic Studies</p> <p>Specialty Services</p> <p><input type="checkbox"/> 331 Aerial Photogrammetry</p> <p><input type="checkbox"/> 332 Travel Studies</p> <p><input type="checkbox"/> 333 Geotechnical Specialists</p> <p><input type="checkbox"/> 334 Subsurface Utility Engineering</p> <p><input type="checkbox"/> 335 Railroad Infrastructure Design</p> <p><input type="checkbox"/> 336 Right of Way Services</p> <p><u>ARCHITECTURE AND OTHER PROFESSIONAL SERVICES</u></p> <p><input checked="" type="checkbox"/> 401 Seeding and Erosion Control</p> <p><input type="checkbox"/> 402 Landscape Architectural Design</p> <p><input type="checkbox"/> 411 Pedestrian and Bicycle Facility Design</p> <p><input type="checkbox"/> 412 Parks and Recreational Design</p> <p><input type="checkbox"/> 421 Architectural Design</p> <p><input checked="" type="checkbox"/> 431 Water and Wastewater Engineering</p> <p><input type="checkbox"/> 441 Maintenance Equip. Materials and Methods</p>
---	---

The foregoing is a statement of facts.

Signature *Daniel L. Coltrane, P.E.* Date June 18, 2020

Name and Title Daniel L. Coltrane, P.E., Principal

(Please type)

Certification by Prospective Participants as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments

Daniel L. Coltrane, P.E., Principal

President, Chairman, or Authorized Official

being duly sworn (or under penalty of perjury under the laws of the United States), certifies that, except as noted below, Midwest Engineering Group

Agency or Company

or any person associated therewith in the capacity of Engineer, Project Manager

Owner, partner, director, officer, principal investigator, project director, manager, auditor, or any other position involving the administration of federal funds

is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;

has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years;

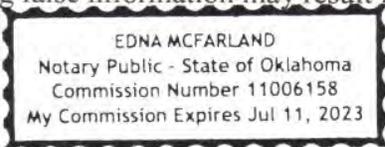
does not have a proposed debarment pending; and

has not been indicted, convicted, or had a civil judgment rendered against (it) by a court of competent jurisdiction in any manner involving fraud or official misconduct within the past three years;

Exceptions Not Applicable

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder or respondent responsibility. For any exceptions noted, indicate below to whom it applies, initiating agency, and dates of action.

Providing false information may result in criminal prosecution or administrative sanctions.



Daniel L. Coltrane

Signature

Sworn to before me, a Notary Public in and for the County of Tulsa, State of Oklahoma this 16 day of June, 2020.

Edna M. McFarland

Notary Public

My Commission expires July 11, 2023

City of Altamont, KS - KDOT Utility Relocation Project

Owner Contact:
Brad Myers,
 City Superintendent
 (620) 784-5422

Midwest Role:
Danny Coltrane:
 Project Design;
Holly Powers:
 Project Management,
 Contract and Construction
 Administration,
 Easement Acquisition

Design Start Date:
March 2018

Design End Date:
October 2018

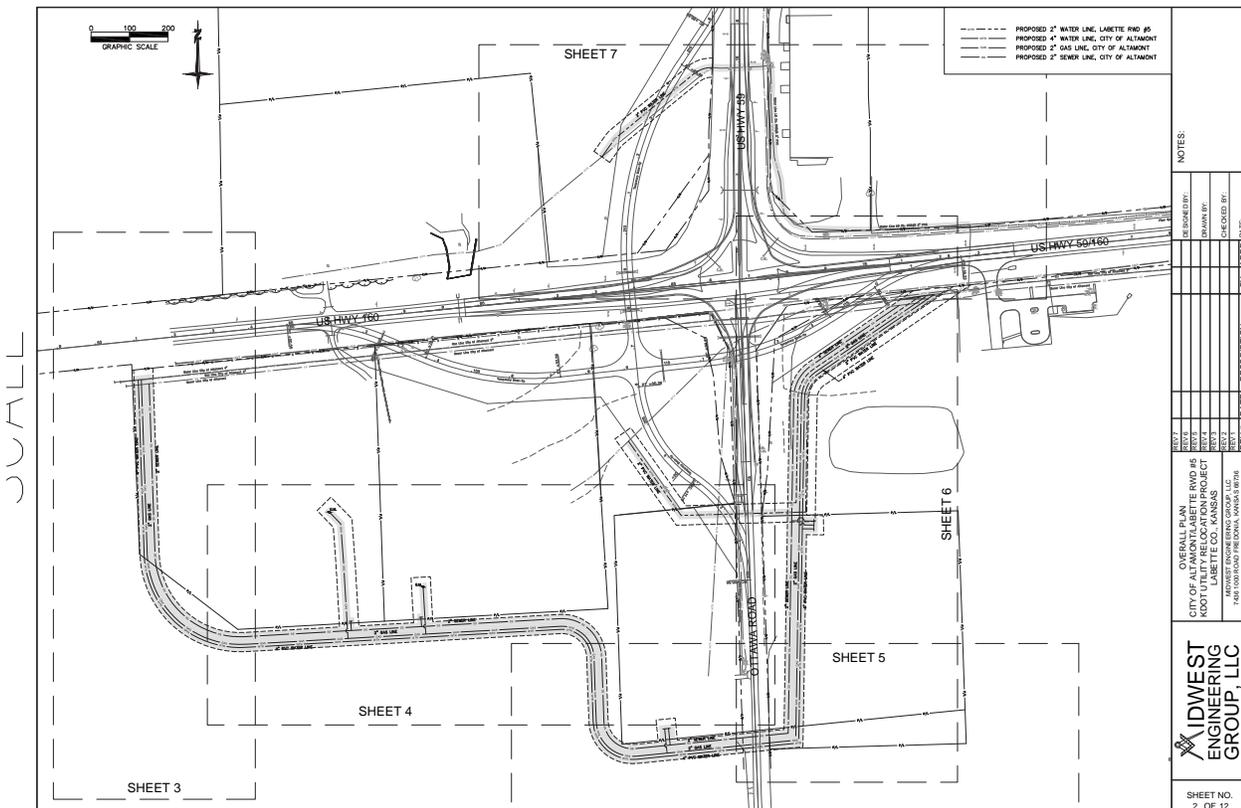
Design Cost
\$26,500

Final Construction Cost
\$72,000

Midwest provided consultant engineering services to the City of Altamont for the relocation of approximately one mile of existing water, gas and sewer line within their service district due to KDOT building a roundabout at the intersection of Kansas Hwy 59 and 160. Existing utilities were moved from KDOT's newly acquired right of way to private property. Midwest was contracted to provide design, bidding, easement acquisitions and construction administration services for the City of Altamont. Six properties required utility easements to be signed. Midwest obtained title reports for the properties and produced the new easements. The City of Altamont obtained signatures from property owners and filed with the local register of deeds office. The City is providing their own observation services.

This project consisted of the construction of approximately 6,000 feet of 2" and 4" PVC, CL200 waterlines; 3,000 of 2" forced main sewer line; 3,800 feet of trench for installation of 2" gas line; (2) county road crossings with approximately 270 feet of restrained joint pipe; (1) 4" water valve; (1) 2" gas valve; (7) service connections; (2) relocated gas meters and (7) connections to existing mains.

Midwest provided construction administration and periodic site visits for the 45-day construction schedule. Construction administration consisted of management of change orders, submittals, RFIs, payment applications, and as-built construction plans.



Owner Contact:
Paul Stevens, Operator
(620) 363-0055

Tammy Bowen
Office Manager
(620) 852-3475

Midwest Role:
Holly Powers:
Project Management,
Contract and Construction
Administration,
Easement Acquisition

Design Start Date:
June 2016

Design End Date:
June 2018

Design Cost
\$56,000

Final Construction Cost
\$557,019.25 (Labor Only)

Anderson RWD #5 KDOT Waterline Relocation Project

SKW provided design services to Anderson RWD #5 for the relocation of approximately 4.71 miles of existing waterline within their service district to private property due to the KDOT rehabilitating Hwy 169 and acquiring additional right-of-way.

Holly Powers of Midwest, via a direct contract with RWD#5, provided right-of-way acquisition services, as well as construction administration and observation for the four-month construction schedule. Construction administration consisted of management of payment applications, change orders, wage rate reviews and producing as-built construction plans. Construction observation consisted of observing daily construction activities performed by the contractor and sub-contractors, and daily logging of materials and quantities installed, as well as inspection reports.

Right-of-Way Acquisition consisted of acquiring title reports and writing 32 new easements needed from property owners for the installation of the new waterline on private property. Midwest also filed completed easements with the register of deeds office. We used a three-step process for obtaining the easements from the property owners which consisted of the following:

Step 1: Mail letter, easement form and easement plan sheet explaining project and easement need to all property owners with stamped and addressed return envelope for signed easement to be returned to water district. We gave property owners 30 days to return signed easement.

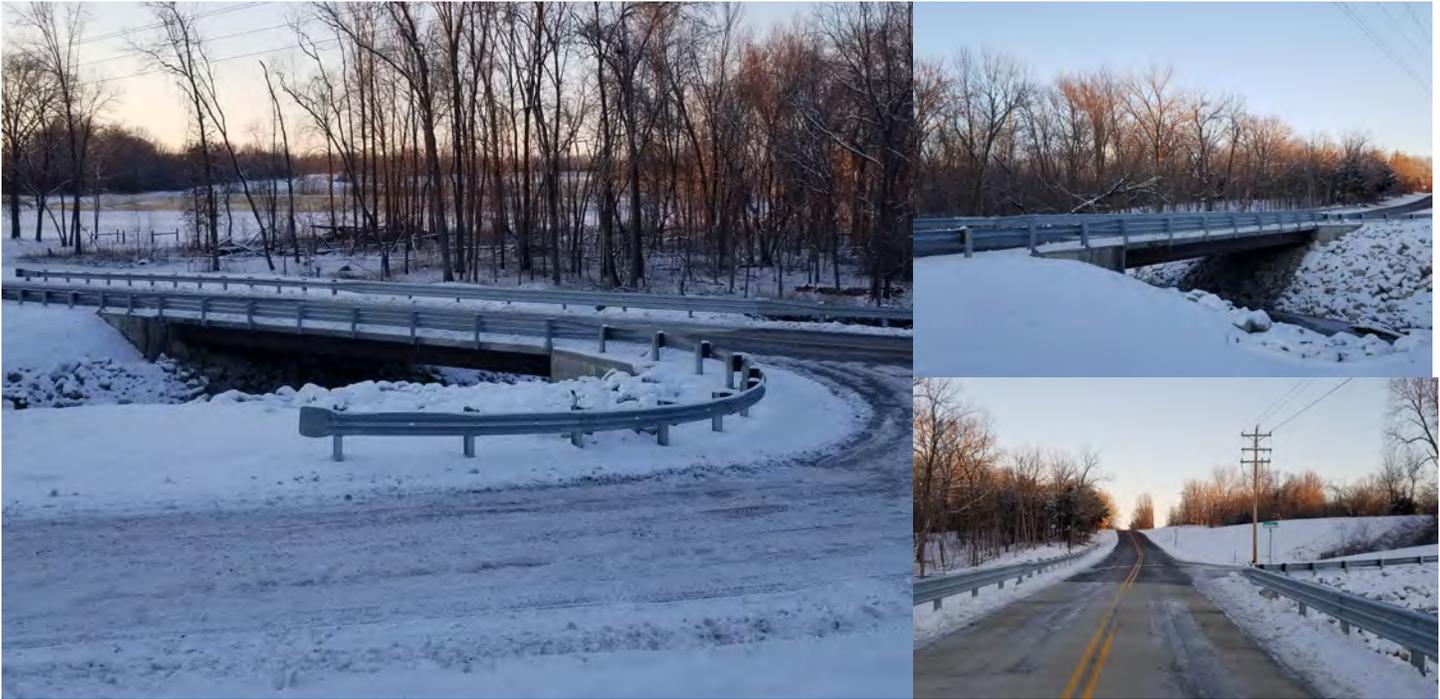
Step 2: If signed easement was not returned within 30 days, property owner was contacted by phone. If phone number could not be obtained, project manager visited residents to try to make contact with property owner and explain the need of easement for the project.

Step 3: If property owner could not be contacted by phone or site visit, a certified letter was sent to owner, once again explaining the need of the easement with the easement form and plan sheet.

There were no properties that went to condemnation for this project, all landowners conceded to signing the new water line utility easement. Anderson RWD #5 did not reimburse property owners for easements, but if crops were distributed during installation of water line, crop damages were paid to property owner.

The project consisted of the construction of approximately 4.71 miles of 4" PVC, CL200 waterlines with 1,750 ft of 1" service lines; 30 new water valves; 17 clean-outs; 21 relocations of existing water meters with new water meter pits; 10 connections to existing water mains; 13 highway or county road crossings and 7 creek crossings using approximately 3,000 feet of restrained joint casing and carrier pipe.





Owner Contact:
Jeff McCann, P.E.
Chief Engineer
JMcCannboonecountymo.org

Midwest Role:
Project designed and
managed by
Dustin Berry*

Construction Completion
Date: November 2019

Construction Cost:
\$343,997

* Dustin Berry served as
Engineer of Record
while this project
was completed
with another firm

Boone County, Missouri: E St. Charles Road Bridge No. 3170016 Replacement

E St Charles Rd is an asphalt roadway carrying more than 600 vehicles per day over the Little Cedar Creek approximately 4 miles east of a growing Columbia, MO. The deteriorated multi-CMP structure carried flow under the roadway, but often became blocked with debris resulting in inadequate flow. A challenge to replacing the existing structure was the adjacent intersection of Doziers Station Road and existing utility corridor along the east side of the stream. Boone County contacted Dustin Berry to discuss a solution to the existing structure's replacement. Dustin designed a 65' long x 26' wide single span steel bridge with turn-back wings to accommodate the stream's alignment and the intersection's turning radii. The bridge required a 20 degree L.A. skew for smooth stream flow and a 2.5% grade for traffic patterns. The new free span structure passes the 25 year flood event, resolves the debris issue and allows traffic to safely use the realigned intersection.

Holly Powers, Project Manager



Education

B.S. Engineering Tech. -
2003
Pittsburg State University

Professional Registrations

KDOT Certifications:
Basic Inspection
Environmental Inspection
Asphalt Paving Inspection
Concrete Paving Inspection
Structure Inspection

ACI Certifications:

Concrete Strength Testing
Concrete Field Testing Technician
- Grade I

Holly Powers serves as an Engineering Technician for Midwest Engineering Group. A collaborative team member, Holly's diverse experience includes roles from operating in the field as a Construction Observer to serving as Project Manager. Her varied duties include client and project management; environmental permit applications; coordination with utility companies, including the preparation of utility agreements using standard forms; development and implementation of road standards and utility permitting for counties and municipalities. Holly is very familiar with communicating with landowners for the acquisition and management of easements, as well as coordination with regulatory agencies, sub-consultants, and clients.

Holly is proficient at cost estimating and defining project scope, developing specifications; construction drawings and plans; project bid management including answering questions from contractors during bid process, issuing addendum and managing bid openings; and providing construction administration, inspection, and construction closeout services.

With over 12 years of technical experience, Holly understands construction and maintenance standards and is adept with Auto CAD, Auto CAD Land Desktop, Auto CAD Civil 3D, Adobe Acrobat Professional, Microsoft Office and MasterSpec. Holly has completed the following relevant projects:

Utility Relocation Projects*:

- KDOT Utility Relocation Project
- City of Altamont/Labette RWD #5 Hwy 50/59
- City of Chetopa, KS & USD 505 Safe Routes to School (SRTS) Project - Phase I
- City of Louisburg, KS SRTS Project Phase I - Louisburg, KS
- City of Belle Plaine, KS SRTS Project Phase I and Phase II
- City of Erie, KS Erie TE Streetscape Project Design, Const. Admin/Inspection

Waterline Projects*:

- Neosho RWD No. 4 - Ottawa Rd & Elk Rd Waterline Upgrades Project
- Neosho RWD No. 4 - Pratt Rd Addition Waterline Upgrade Project
- Neosho RWD No. 4 - Hydraulic Model Update Project
- Johnson RWD No. 7 - Waterline Improvements Project of JO No. 7 & JO No. 6 Merger
- Johnson RWD No. 7 - Cedar Niles Waterline Extension Project

Construction Observation Projects*:

- Wilson & Linn County Enbridge Pipeline
- Maple Road Improvements, Bourbon Co., KS

Dustin Berry, P.E., Project Engineer



Education

B.S. Civil Engineering -
University of Missouri
B.S. CAD - University of
Central Missouri

Professional Registrations

Professional Engineer:
Missouri, Kansas, Iowa,
Oklahoma

NHI Certified Bridge Inspection
Team Leader

NHI Certified Fracture Critical
Bridge Inspector

OSHA General Industry Certification

OSHA Aerial Lift Safety Training

OSHA Confined Space Training

As a project engineer for Midwest Engineering Group, Dustin specializes in designing and analyzing various structures. He provides detailed calculations and specifications for the strength and stability of structures for a variety of projects, including bridge design, structural construction, rehabilitation and evaluation. Dustin stays abreast of industry best practices and continually researches advanced technology.

Dustin leads his project teams by defining clear goals for all aspects of each project and develops steps for proper execution. He provides detailed specifications for proposed solutions including time and scope involved. Dustin demonstrates flexibility to quickly account for project challenges and manages using best engineering practices balanced with the most cost-effective solution. Dustin routinely collaborates with team members to ensure a plan is in motion to safely build each structure. He manages and oversees construction document preparation for all projects. Dustin also performs site visits for structural evaluations, prepares recommendation reports, and collaboratively works with contractors during the construction process to address questions.

Dustin developed and managed the following relevant projects:

Kansas*

- Bridge J.5-10.0 & K.1-1.0 Rehabilitation - Johnson County, KS
- 159th Street Box Culvert Extension - Johnson County, KS

Missouri*

- Liberty School Ln RCB Culvert Replacement - Cooper County, MO
- Bridge #1970015; BRO-B057(14) Replacement - Lincoln County, MO
- Bridge #3170016; E St. Charles Rd Replacement - Boone County, MO
- Bridge #2300017; Soft-Match Credit Replacement - Cass County, MO
- Bridge #2510010; BRO-B080 (34) Rehabilitation - Pettis County, MO
- Bridge #2740017; BEAP 20TTAP-11 - Miller County, MO

* Projects completed with another firm

Daniel L. Coltrane, Jr. P.E., Principal & Owner



Education

B.S. Civil Engineering -
1993
Kansas State University

Professional Registrations

Professional Engineer:
Kansas, Oklahoma,
Missouri

Professional Associations

ACI

As Owner and Principal of Midwest Engineering Group, Daniel Coltrane has more than 25 years of consulting experience. Danny oversees all design work including all phases of land surveying and civil engineering. His range of experience includes all aspects of water and wastewater projects, plat and plan reviews, mapping, hydraulic modeling, oil & gas pipelines, road/ transportation, land development and right-of-way acquisition, construction services, GIS, and studies.

Danny works primarily with municipalities and quasi-municipalities, and has a thorough understanding of regulators and funding administrator operations. He has worked with a variety of funding agencies including private and public sources.

Danny's special niche in project experience includes design of water distribution systems, water storage facilities, booster stations, chlorination facilities, control systems and treatment for public potable water systems.

Danny is a licensed professional engineer in Kansas, Missouri and Oklahoma. He is a member of the ACI and is ACI certified Grade 1 for field testing concrete and concrete cylinders

Danny has designed and is managing the following relevant projects:

- KDOT Utility Relocation Project
- City of Altamont/Labette RWD #5 Hwy 50/59
- Anderson RWD #5 Hwy 169 Waterline Relocation Project
- Neosho RWD #4 Hwy 400 Waterline Relocation Project
- Public Wholesale Water Supply District No. 23 (PWWSO No. 23); Merger between three entities: Western Expansion – 25 miles 8" water line, triplex booster pump station and 200,000-gallon elevated storage tank
- PWWSO No. 23; Increased Waterline Capacity: 20 miles of 12", 8" and 6" water lines
- PWWSO No. 23; New 6 MGD Water Treatment Plant and Waterlines - Construction Administration and material testing
- City of LeCompton, KS: Ion Exchange Water Treatment Plant
- City of Canute, OK; 0.4 MGD Reverse Osmosis Water Treatment Plant
- Miami RWD No. 2 - Water Treatment Plant Improvements Project - Phase I
- PWWSO No. 23; New 6 MGD Water Treatment Plant and Waterlines - Construction Administration and material testing
- Public Wholesale Water Supply District No. 23 (PWWSO No. 23); Merger between three entities: Western Expansion – 25 miles 8" water line, triplex booster pump station and 200,000-gallon elevated storage tank

Danny has considerable additional project experience available on request.



* Projects completed with another firm

Trenton Morris, E.I.T., Engineering Designer



Education

B.S. Civil Engineering -
2016

Missouri University of
Science and Technology
NCAA All-American

EIT-Civil Engineering
ACI Certification

As a project manager for Midwest Engineering Group, Trenton assists with all project phases from pre-construction through survey, design, and construction phases. Trenton is proficient with design of surface water treatment plants, preparing and editing plans and specifications, as well as coordinating 3D modeling of projects. He is also adept at analyzing water samples, water and wastewater permitting, environmental compliance, groundwater well design, surface water intake design, pump selection, line sizing, valve and actuator selection, and process and instrumentation diagrams. Trenton's daily tasks include cost estimates, hydraulic analysis & calculations, engineering reports, rate studies, coordinating with technicians and other engineers to develop plans & specifications, permitting to ensure compliance with local, state, and federal regulations, and conducting construction inspections.

Trenton's project history includes: hydraulic modeling, pipeline assessment/inspection, flow calculations and GIS mapping to reconstruct the replacement of combined sewer systems. He is familiar with various design phases of water treatment plants up to 6 MGD and distribution consisting of early phase pump and flow calculations, P&ID plan sheet improvements, and survey/site analysis.

Trenton has developed and is managing the following relevant projects:

- City of Glenpool, OK - Oak Street LS Improvements Project
- City of Glenpool, OK - Hickory Street LS Improvements Project
- City of Lane, KS - Pottawatomie Creek Waterline Bore Project
- Allen RWD No. 8 - Waterline Improvement Project
- Miami RWD No. 2 - Water Treatment Plant Improvements Project - Phase I
- City of Oswego, KS - Sanitary Sewer LS #6 Improvements Project

Louis Tribble, E.I.T., Engineering Designer



Education

B.S. Chemical
Engineering-2017

Missouri University of
Science and Technology
EIT-Chemical Engineering

Collegiate Track Athlete

Louis Tribble is honing his skills as a designer and manager for Midwest Engineering Group. An integral team member, Louis assists with research, data collection, and design work from pre-construction through survey, design, and construction phases. Louis routinely assists with evaluation and inspection of buildings, and collecting data on sources of infiltration and inflow.

Louis is familiar with tracking and troubleshooting processes throughout all phases of project management, he routinely conducts process audits for quality control and quality assurance, and ensures regulatory compliance. He assists with hydraulic analysis & calculations, engineering reports, rate studies, and coordinates with technicians and other engineers to develop plans & specifications.

Louis has frequent interactions with designers, engineers, clients, city officials, and contractors throughout all project phases. He assists Senior Engineers with design phases. He is also adept at operator training.

Louis has developed and is managing the following relevant projects:

- PWWSD No. 23; Increased Waterline Capacity: 20 miles of 12", 8" and 6" water lines
- Public Wholesale Water Supply District No. 23 (PWWSD No. 23); Merger between three entities: Western Expansion – 25 miles 8" water line, triplex booster pump station and 200,000-gallon elevated storage tank
- PWWSD No. 23; New 6 MGD Water Treatment Plant and Waterlines - Construction Administration and material testing
- Miami RWD No. 2 - Water Treatment Plant Improvements - Phase I

Justin Gorman, Senior CAD Technician



Education
Graduate Level Course -
Drafting Technology:
• AutoCAD
• Civil Drafting with
Surveying
1997
Manhattan Area Technical
College

General Studies
1996
Fort Scott Community
College

Justin Gorman is a talented CAD Technician with Midwest Engineering Group with more than 21 years of experience. Utilizing the latest technology, Justin prepares and edits schemata in a prompt manner to create relevant drawings that serve as the baseline for efficient production processes.

Upon identifying the overall scope of project, Justin meticulously checks engineering documents to ensure that they meet the standards and instructions provided by engineer or client. He is instrumental in providing ideas and suggestions on how initial design can be improved. He routinely takes suggestions from builders and engineers to comprehend initial building design and asks questions to determine the need for building specific structures and develop plausible plans accordingly. He is an expert in drafting designs that are budget-friendly and can be followed within the time lines specified

Justin's experience encompasses a broad range of design types including design of sewer systems, street design plans, subdivisions, and drawing legal and topographical surveys. Justin is a flexible employee and has also served as Survey Instrument Man, Temporary Survey Crew Chief, KDOT Asphalt: Paving Inspection, Sanitary Sewer Inspection, and worked on several energy projects. Justin has completed the following relevant projects:

Public Wholesale Water Supply District No. 23 (PWWSD No. 23); Merger between three entities: Western Expansion – 25 miles 8" water line, triplex booster pump station and 200,000-gallon elevated storage tank

- PWWSD No. 23; Increased Waterline Capacity: 20 miles of 12", 8" and 6" water lines
- PWWSD No. 23; New 6 MGD Water Treatment Plant and Waterlines - Construction Administration and material testing
- City of Glenpool, OK - Oak Street LS Improvements Project
- City of Glenpool, OK - Hickory Street LS Improvements Project

Pipeline design drawings, 3D as-builts, corrosion drawings and standards:

- Anadarko; Dominion Magellan Panhandle Energy Transfer

Deb Smith, Senior CAD Technician



Education
A.A. Engineering - 1984
Johnson County Community
College

Professional Registrations

- OSHA 10 Hour Construction Certification
- ArcINFO, ArcCAD, & ArcView
- Python & ModelBuilder
- WaterGEMS (Hydraulic Modeling) by Bentley
- GPS Training by Seiler Instruments

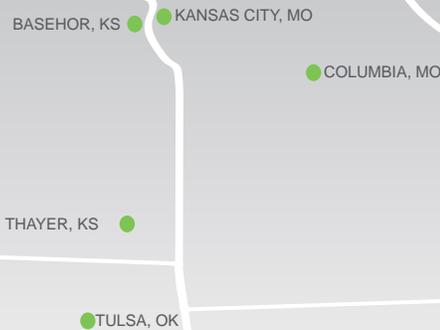
Deb Smith is a Senior CAD Technician with Midwest Engineering Group with more than 30 years of experience. Deb is an expert at AutoCAD and routinely sets up, drafts, converts, produces and edits plans to create drawings for each project. Deb efficiently provides the project team with updates of Architectural CAD/BIM files for use in design drawings. She is adept at troubleshooting potential problems on plans before they materialize as construction issues. She is able to coordinate with project team members in a respectful and productive manner.

Deb ensures all engineering documents meet current regulatory and industry standards. She listens intently to instructions provided by engineer or client and is always helpful in providing ideas and suggestions on how initial design can be improved. Deb has an eye for detail and ensures that her designs are within each project budget and can be constructed within the time lines specified.

Deb has specialized experience in Geographic Information Systems (GIS). She has completed several courses and utilizes these skills on every project. She also excels at water modeling serving various water districts for the past 10 years. Deb has completed the following relevant projects:

- Fort Leavenworth, KS; Numerous water and sewer line extensions or replacements City of Olathe, KS; Water Street – Waterline Improvements
- Neosho RWD No. 4 - Ottawa Rd and Elk Rd Waterline Upgrades Project
- Neosho RWD No. 4 - Pratt Rd Addition Waterline Upgrade Project
- Johnson RWD No. 7 - Waterline Improvements Project of JO#7 & JO#6 Merger
- Johnson RWD No. 7 - Cedar Niles Waterline Extension Project
- Allen RWD No. 8 - Waterline Improvements Project
- City of Lane, KS - Pottawatomie Creek Waterline Bore Project
- Public Wholesale Water Supply District No. 23 (PWWSD No. 23); Water Treatment Plant Facility (6 MGD plant); design of all aspects of new WTP including intake, process, site, storm, sanitary, water treatment and distribution
- Canute, OK; Water Treatment Plant (4 MGD plant)
- Platte City, MO; Industrial Site Development & Sewer design
- City of Kansas City, MO: Storm and Sanitary Sewer Replacement project for KCMO Sewer

Office Locations



we transform communities

Midwest Engineering Group is a contemporary engineering company utilizing modern technology to connect our talented individuals and qualified professionals wherever their physical location. With our main office in Tulsa, Oklahoma we are able to serve our clients with valuable solutions from our headquarters and our satellite offices throughout Oklahoma, Kansas and Missouri. We have embraced networking technology and the benefits of virtual and remote offices. This approach allows us to stay connected and problem solve daily through sharing, viewing and discussing relevant client solutions, data, and information. Our employees are empowered to implement practical solutions and are always accessible and available beyond the normal 9-5 workday. This enables us to respond quickly and efficiently to customer needs, provide high quality service, and produce a better overall product for our customers.

Midwest Engineering Group employees are equipped with state-of-the-art computers and up-to-date software and equipment resulting in outstanding levels of performance. We utilize the following software: Autodesk AutoCAD Civil 3D for grading and water & sewer design; Autodesk InRoads for 3d Modeling & fly through software & conceptual design; Autodesk Navisworks, a clash detection software; Autodesk Plant 3d for 3d modeling of piping, bill of materials, P&IDs, isometrics, etc.; Bentley Flowmaster for drainage calculation; Bentley WaterGEMS, a water modeling software; ESRI ArcGIS; QGIS, an open source GIS software; Stahls' Cadworx for 3d modeling of piping, bill of materials, P&IDs, isometrics, etc.; Autodesk ReCap, a point cloud software; Autodesk FormIt -3d drawing and visualization software; Autodesk Vehicle Tracking software; BlueBeam Revu; Google Earth Pro; Microsoft Office Suite: Word, Excel, PowerPoint, Access, etc.; various photo and video editing software including Gimp, Pinnacle Studio, and Sketchup, Adobe suite including Photoshop, Illustrator and InDesign.

We are able to deliver files formatted as .PDF, .DWG for AutoCad, or .SHP for ESRI (if specifically requested). We can also provide WaterGEMS model files in .WTG and .MDB formats.

Midwest Engineering Group values traditional American principles of honesty, integrity, respect, and hard work. We are reliable, dedicated people striving to provide you with intelligent and practical engineering solutions. We transform and improve communities.

References

Public Wholesale Water Service
District No. 23
John Hodgden, Manager
7436 1000 Road - P.O. Box 328
Fredonia, KS 66736
(620) 212-0312
jhodgden@pwwsd23.net

City of Girard, Kansas
Steve Brooks
120 N Ozark Street
Girard, KS 66743
(620) 238-0629
cogpw@girardkansas.gov

City of Parsons, Kansas
Fred Hammock
112 S. 17th St. - P.O. Box 1037
Parsons, KS 67357
(620) 778-2101

Lincoln County Commission
Mike Mueller - Associate Commissioner
201 Main Street
Troy, MO 63379
(636) 528-6300

Cooper County Commission
Don Baragary - Presiding Commissioner
200 Main St. Room 24
Boonville, MO 65233
(660) 882-2228



Project Approach

Designing built environments takes time and resources. We want to ensure that our clients understand the process every step of the way and are aware of potential cost and solution before a project commences. An informed decision-making process is a smooth process that minimizes the risks associated with public construction projects. The following is a brief description of our collaborative and integrated design and construction process.

It is understood that City of Independence, Kansas is seeking to improve the Whiskey Creek Drainage with an initial improvement from Sycamore Street & 20th to a discharge along the UPRR.

Midwest Engineering Group (Midwest) will provide the City of Independence with professional engineering and consulting services for the necessary infrastructure and drainage improvements to allow the City to effectively and efficiently meet the growing demand and initial portion of this drainage area improvement.

Midwest will refer to the RFP prepared by City of Independence and provide design services as outlined in cost estimate in SOQ. Midwest further understands that this project consists of the following key components:

- Removal of existing drainage structure from Sycamore & 20th Street to UPRR.
- 10'x5' RCB culvert installation east of Sycamore & 20th Street
- 10'x5' RCB culvert installation on W Cottonwood Street (optional)
- 10'x5' RCB culvert installation south of Cottonwood & 20th Street
- Drainage channel installation
- Drainage discharge embankment protection

Project Understanding

Midwest will visit the site and review recommendations from the Hydrologic and Hydraulic Analysis (H&H) with the City of Independence, then consider aspects and available options for this project. We understand there is a planned detention area to assist in discharge management of drainage flow. The 10'x5' structures are considered an improvement, but do not meet a designated design frequency. Although we anticipate to follow the H&H recommendations already suggested, we will review the drainage area and consider alternative options such as decreasing or removing the detention pond and recommending 20' structures to more closely match existing structure sizes. In preparation for this visit, Midwest will obtain all necessary existing maps, drawings, reports, and hydraulic models, as well as all other pertinent information available from the City of Independence for reference.



Pre-Design/Kick-off Meeting

Dustin Berry (Engineer of Record), accompanied by Holly Powers (Project Manager) and Danny Coltrane (Owner, QA/QC) will conduct an initial project kick-off meeting with City staff where they will provide a collaborative environment to:

- Introduce all team members and discuss roles
- Listen to the City's vision for this project
- Review and clarify objectives
- Discuss overall vision and project goals
- Document project goals and success metrics
- Determine best communication processes, hierarchies, methods, and timelines
- Establish schedules and review dates

PER/Preliminary Design

Holly and Dustin of Midwest will conduct preliminary design (major items listed):

- Initial site evaluation & photo log
- Drainage & stream analysis
- Develop Preliminary Engineering Report (PER) for funding
- Environmental Report
- Topographic & legal survey
- Legal descriptions
- Hydraulic openings & software modeling
- Hydraulic sizing of channel
- Initial layout of channel and RCB culverts
- Preliminary drafting & plan preparation
- Engineer Plan Review
- Floodplain permit application
- SWPPP/NOI/USCOE/KDHE
- Utility Coordination
- Geotechnical Investigation (optional)

Right-of-Way/Easement Acquisition

Holly and Danny of Midwest will provide necessary land acquisition assistance to include: Acquire title certificates, Preparation of all documents including easement conveyances (on City form) and legal descriptions for any lease or purchase of property, that the City may warrant for the project. If the City of Independence requests, we use a three-step process for obtaining the easements from the property owners:

Step 1: Mail letter, easement form and easement plan sheet explaining project and easement need to all property owners with stamped and addressed return envelope for signed easement to be returned to water district. Property owners are provided with 30 days to return signed easement.

Step 2: If signed easement is not returned within 30 days, Midwest will contact property owner by phone. If phone number cannot be obtained, Midwest project manager will visit residents to try to make contact with property owner in person and explain the need of easement for the project.

Step 3: If property owner cannot be contacted by phone or site visit, a certified letter is sent to owner, once again explaining the need of the easement with the easement form and plan sheet and file completed easements with the register of deeds office. If the City does not get any response within 30 days, Midwest will compile a list of incomplete easements with a follow-up recommendation that may include possible condemnation.

Final Design/QA/QC

Holly and Dustin of Midwest will conduct final design (major items listed):

- RCB culvert design
- Roadway, channel & site drainage design
- RCB culvert drafting
- Roadway, channel & site drainage drafting
- Engineer Plan Review
- Quantify bid items
- Prepare specifications
- Estimate construction cost

Midwest and City team members will work together to adjust a reasonable Project Schedule.

Midwest will work to produce drawings of the project to illustrate the drainage improvement.

Midwest will work to update the opinion of probable costs.

Holly will schedule and conduct progress meetings for the design team and review design and contract documents with City staff.

Holly will provide coordination between all team members.

Construction Documents (CD)

Once Design Documents are approved, Holly and Dustin will prepare the Construction Documents.

Midwest will coordinate these documents with all applicable permit requirements and obtain all necessary permitting approvals. Midwest will submit 100% complete final construction documents, drawings, specifications, bid and contract documents to the City for review and approval. Midwest will provide final plans and documents to the City in paper and electronic format as required.

Bidding

During this phase, Holly and Dustin will prepare bid documents to be distributed to contractors for pricing. The City, with the help of Midwest, will evaluate the bids and select a bidder. Midwest will also assist the City in:

- Attending Public Hearings and Easement Acquisition Meetings
- Setting bid date and advertising for bids
- Issuing bid documents
- Clarification and interpretation of documents



- Reviewing and tabulating bids
- Recommending award of contracts
- Preparation of contract award documents.

Holly will furnish the City with the necessary sets of conformed contract documents for completion by the Contractor.

Holly will receive and review Contractor’s executed contract documents, bonds and insurance certificates, and aid the legal counsel in verifying that they meet the requirements contained in the project manual.

Holly will aid the City in preparing the notice to proceed to be sent to the Contractor.

Construction Administration (CA)

Midwest will work with the winning contractor to ensure the project is built as designed, and in that role, Holly will provide clarifications, design sketches or approve alterations from the drawings. Holly will oversee the project until the project is completed and final inspections are all completed.

During construction, Holly will provide Construction Administration to include the following as appropriate:

- Request and review the following schedules:
 - Estimated progress schedule, including starting and completion dates for various stages of the work.
 - Preliminary shop drawing submittal schedule.
 - Preliminary schedule of values of work.
- Organize and hold a pre-construction conference before work begins to:
 - Receive schedules.
 - Establish procedures for handling shop drawings and other submittals.
 - Establish procedures for processing applications for payment.
 - Review the proposed work to establish that all parties understand the work and proposed schedules.
 - Provide minutes of pre-construction conference.
 - Review shop drawings and samples for conformance with the design concepts of the project.
 - Clarify and interpret the intent of the Contract Documents.
 - Receive and review communications from the contractor and perform as the City representative.
- Complete periodic visits to work site, at appropriate stages of construction, to observe the progress and quality of work and advise the City of work that is unsatisfactory.
- Perform final project review and site inspection. Submit statement of completion for the City approval.
- After completion of project, provide a digital drawing file and two sets of prints of “record drawings” with information obtained from the Contractor and Resident Project Representative.



- Report to Owner whenever we believe that any work is unsatisfactory, faulty or defective or does not conform to the contract documents or does not meet the requirements of any inspections, tests, or approval required to be made or has been damaged prior to final payment.

Construction Staking

As a separate component of the project, Midwest will furnish construction staking to assist the City and Engineer on the job. The duties will include:

- During construction, one-time construction staking will be provided for construction of all improvements to be constructed.
- Staking will be provided in an orderly manner for each phase of the construction.
- Staking of other work or re-staking to replace lost or destroyed stakes will be provided as authorized by the City and compensated for as “Other Services.”

At the option of the City, the Contractor may be responsible for reimbursement to the City of any fees charged for re-staking by noting so on the construction drawings and in the Agreement between the City and Contractor.

Construction Inspection

Midwest will provide construction inspection, testing and administration for this project.

Holly will serve as the KDOT-Certified Construction Inspector to assist the City and the Engineer on the job. Her duties will include:

- Review progress schedule, schedule of shop drawing submission, and schedule of values prepared by Contractor and consult with Engineer concerning their acceptability.
- Request job conferences, as needed, attend the various meetings and maintain copies of minutes thereof.
- Serve as liaison between Client, Engineer, and Contractor.
- Conduct on-site inspections of the work in progress to assist Engineer in determining if the work is proceeding in accordance with the contract documents and the design concepts of the project.
- Report to Engineer whenever he believes that any work is unsatisfactory, faulty or defective or does not conform to the contract documents or does not meet the requirements of any inspections, tests, or approval required to be made or has been damaged prior to final payment.
- Maintain accurate records of work performed and materials and equipment stored at site.
- Keep a log of daily activities and job site conditions and provide weekly reports summarizing progress and conditions.
- Schedule and coordinate the quality control testing performed by other firms retained by the City.
- Review Contractor’s pay applications for compliance with established procedure and recommend to Engineer any actions regarding relationship to schedule of values, work completed, and materials on hand.
- Assist Engineer in preparing a list of observed items requiring completion or correction for substantial completion.
- Conduct final inspection in the company of the Engineer, the City and Contractor and prepare final list of items to be completed or corrected.

Other Services

Midwest will perform other services as part of this contract:

- On an hourly basis, Midwest may be employed by the City to make contact and/or meet with property owners.
- Assist the City in condemnation actions, if necessary.
- Other Work. Provide additional work and services as agreed upon.

Experience with Federal Funding

Midwest Engineers keep ourselves current on the essentials of federal grants practice, from issues affecting agency decisions, to the award and administration of grants. Each year the Federal Government awards millions of dollars to state and local government, universities, hospitals and non-profits, and corporations. The funding is for a wide variety of purposes: from infrastructure and housing projects; medical, engineering, energy, agricultural and environmental research; law enforcement, homeland security and disaster recovery initiatives; to health care, education and training, and more.

The Government's selection of programs and recipients is not governed by the rules of government contracting. Its authority is from a combination of legislation and regulations that either prescribe or create assistance initiatives or give federal agencies the discretion to enter into assistance relationships. The administration of assistance awards is controlled by unique requirements also. They vary based on the program and recipient, but share common features and requirements with other assistance relationships and contracts.

We have extensive experience with mechanisms for formalizing relationships between federal and non-federal entities, such as grants, cooperative agreements, educational partnerships, cooperative research and development agreements, and the various forms of contracts. Our knowledge encompasses:

- Background Information
- Varying Types of Grants versus Loans
- Laws and Regulations
- Competing for Funding
- How/When Award is Administered
- Financial and Compliance Issues
- Interpretation and Litigation

We are experienced with securing funds from many levels of government and private sources. We are familiar with regulatory requirements, including documentation guidelines for U.S. Department of Agriculture Rural Development (USDA-RD), U.S. Economic Development Administration (EDA), Community Development Block Grants (CDBG), and Federal Emergency Management Association (FEMA) to name just a few. We are experienced at navigating the complicated, diverse, and often agency- and program-specific field of federal grant practice. We can assist you with:

- The laws and regulations governing grants, agency authorities, and programs.
- The interpretation, types, and legal nature of grants and cooperative agreements in comparison to other instruments.
- The funding selection process, with strategies for submitting competitive applications.
- Strategies for combining a grant with a loan if necessary to keep user costs reasonable.
- Managing the award, to include compliance with award conditions and the applicable regulations.

Which funds specifically may be used to finance the acquisition, construction or improvement of:

- Drinking water sourcing, treatment, storage and distribution
- Sewer collection, transmission, treatment and disposal
- Solid waste collection, disposal and closure
- Storm water collection, transmission and disposal

In some cases, funding may also be available for related activities such as:

- Legal and engineering fees
- Land acquisition, water and land rights, permits and equipment
- Start-up operations and maintenance
- Interest incurred during construction
- Purchase of facilities to improve service or prevent loss of service
- Other costs determined to be necessary for completion of the project

We have been completing federally funded and loan assisted projects for over 25 years. Our most recently completed project was initiated due to flooding and consisted of over \$30,600,000 USDA monies, with over 45% consisting of grant funds.

Quality Assurance / Control

With client needs as our priority, at the beginning of each project, Midwest Engineering Group plans and establishes the project goals and objectives, then determines the processes that are required to deliver a high-quality end product. Our senior professionals all have many years of qualified engineering, design, and project management experience, which means they understand the many kinds of challenges that can and do occur on an engineered project and know what steps to take to minimize problems and mitigate risk. They also employ best practices on client engagements to ensure high-quality project outcomes.

Due to our hands-on approach, our licensed Professional Engineers prepare a detailed scope for projects. They are responsible for the daily monitoring of processes and any modifications to ensure these measures meet the predetermined well-defined project objectives. These senior professionals are intimately involved throughout the entire project, and are able to quickly implement necessary actions to achieve design improvements and keep projects moving toward completion.

Midwest is able to provide consistent quality assurance/quality control (QA/QC) through the entire project. Providing quality services and products is integral to our daily work ethic. As a team, we pride ourselves on providing workable, constructible, value-driven design projects. At the end of each project, our Professional Engineers conduct a final QA/QC review.

These steps are regularly reviewed, evaluated and improved upon. This allows us to ensure that every project is designed and implemented with proper procedures in-place that meet the standard of care. This greatly improves the final product for our clients.





When you think Midwest, think intelligent, practical engineering solutions.



We transform and improve communities.

From pre-planning to design to construction administration services, our comprehensive civil design expertise ensures our clients have access to safe, affordable drinking water. Our services include site layout, stormwater management, wetland mitigation, permitting, utility coordination, water distribution and treatment systems.



We prevent pollution and keep communities safe.

We work with communities to prevent byproduct pollution from community activities including domestic wastewater from households, municipal wastewater from communities, or industrial wastewater. Our engineering expertise extends to wastewater treatment facilities, erosion management, and inflow and infiltration prevention.



We propel communities into the future.

We ensure communities are able to provide safe and environmentally compatible development that allows efficient movement of people and goods. We excel at planning, design, construction, maintenance, and operation of transportation facilities. Our experience consists of bridges, arterial roads, utilities, urban and rural transportation and parking solutions.



We power communities forward.

Our experience in energy transmission and distribution pipeline solutions ensures the operational delivery of hydrocarbons. The successful energy projects we complete carry products from gathering to transmission to distribution systems to individual consumers so that communities always have the on-demand energy they need to thrive and prosper.

Cost Estimate

Independence Stormwater					
Sycamore Street & 20th Street					
No.	Item	Est. QTY	Unit	Unit Price	Cost
1	Mobilization	1	LS	\$40,000	\$40,000
2	Removal of Existing Structure	1	LS	\$25,000	\$25,000
3	Clearing & Grubbing	1	LS	\$4,000	\$4,000
4	Unclassified Excavation	1,225	CY	\$50	\$61,250
5	Compaction of Earthwork	730	CY	\$10	\$7,300
6	Traffic Control	1	LS	\$7,000	\$7,000
7	Aggregate Surface	20	TN	\$25	\$500
8	Aggregate Base	375	TN	\$25	\$9,375
9	Asphaltic Concrete Base	220	TN	\$300	\$66,000
10	Asphaltic Concrete Surface	65	TN	\$275	\$17,875
11	Precast Box Culvert 10'x5' - 20th	42	LF	\$1,650	\$69,300
12	Precast Box Culvert 10'x5' - Pine	24	LF	\$2,050	\$49,200
13	Granular fill-box	226	CY	\$85	\$19,210
14	Foundation Stabilization	90	CY	\$60	\$5,400
15	RipRap Slope Protection	310	TN	\$50	\$15,500
16	Geotextile Fabric	420	S.Y.	\$4	\$1,680
17	Guardrail (thrie beam on box)	150	LF	\$60	\$9,000
18	Thrie End Section	8	EA	\$200	\$1,600
19	Object Markers	8	EA	\$225	\$1,800
20	Seeding, Mulch & Fertilizer	1	LS	\$5,000	\$5,000
21	Contractor Staking	1	LS	\$3,800	\$3,800
Subtotal					\$419,790
Contingency				10%	\$41,979
Total Construction Cost					\$461,769

Additional Project Costs				Cost \$
1	Legal Services	LS	1%	\$4,618
2	Easement Costs	LS		\$35,000
3	Title Certificates for Easements	LS		\$2,100
4	Acquisition of Easements	LS		\$2,500
5	Environmental Review	LS		\$-
6	Utility Relocation	LS		\$-
7	Environmental Mitigation	LS		\$-
8	Grant Administration	LS		\$15,000
9	Bonding and Interest	LS		\$-
Subtotal				\$59,218

Basic Engineering Services				Cost \$
1	Design Phase	LS	10%	\$46,177
2	Construction Administration	LS	2.50%	\$11,544
3	Construction Observation (1 persons, 4 hrs per day for 90 days, \$70/HR)	Hrly		\$25,200
4	Reimbursable Expenses	RMB		\$3,300
Subtotal				\$86,221

Additional Engineering Services				Cost \$
1	Hourly Services	Hrly	1%	\$4,618
2	Geotechnical	LS		\$7,500
3	Permitting	LS		\$2,500
4	Easement Acquisition	LS		\$3,500
5	\$WPPP	LS		\$4,500
6	PER	LS		\$7,000
7	Legal Survey	LS		\$8,000
8	Reimbursable Expenses	RMB		\$1,000
Subtotal				\$38,618

*Engineering paid by City \$124,839

Total Professional Fees	\$184,057
Total Project Cost	\$645,826

This preliminary opinion of probably costs does not include sidewalks, stormwater structures or utility relocations

Independence Stormwater - Alternate					
W Cottonwood Street					
No.	Item	Est. QTY	Unit	Unit Price	Cost
22	Precast Box Culvert 10'x5'	1	LS	\$50,000	\$50,000
Subtotal					\$50,000
Contingency				10%	\$5,000
Alternate 1 Construction Cost					\$55,000



Alternative Cost Estimate

This alternative option that we are proposing presents a better solution with larger reinforced concrete boxes that we recommend to allow more capacity and prevent future flooding in the affected area.

Independence Stormwater					
Sycamore Street & 20th Street					
No.	Item	Est. QTY	Unit	Unit Price	Cost
1	Mobilization	1	LS	\$68,000	\$68,000
2	Removal of Existing Structure	1	LS	\$25,000	\$25,000
3	Clearing & Grubbing	1	LS	\$4,000	\$4,000
4	Unclassified Excavation	1,225	CY	\$50	\$61,250
5	Compaction of Earthwork	730	CY	\$10	\$7,300
6	Traffic Control	1	LS	\$7,000	\$7,000
7	Aggregate Surface	20	TN	\$25	\$500
8	Aggregate Base	375	TN	\$25	\$9,375
9	Asphaltic Concrete Base	220	TN	\$300	\$66,000
10	Asphaltic Concrete Surface	65	TN	\$275	\$17,875
11	Precast Box Culvert 20'x5' - 20th	42	LF	\$2,500	\$105,000
12	Precast Box Culvert 20'x5' - Pine	24	LF	\$3,200	\$76,800
13	Granular fill-box	226	CY	\$85	\$19,210
14	Foundation Stabilization	90	CY	\$60	\$5,400
15	RipRap Slope Protection	310	TN	\$50	\$15,500
16	Geotextile Fabric	420	S.Y.	\$4	\$1,680
17	Guardrail (thrie beam on box)	150	LF	\$60	\$9,000
18	Thrie End Section	8	EA	\$200	\$1,600
19	Object Markers	8	EA	\$225	\$1,800
20	Seeding, Mulch & Fertilizer	1	LS	\$5,000	\$5,000
21	Contractor Staking	1	LS	\$3,800	\$3,800
Subtotal					\$511,090
				Contingency	10% \$51,109
				Total Construction Cost	\$562,199

Additional Project Costs				Cost \$
1	Legal Services	LS	1%	\$5,622
2	Easement Costs	LS		\$35,000
3	Title Certificates for Easements	LS		\$2,100
4	Acquisition of Easements	LS		\$2,500
5	Environmental Review	LS		\$-
6	Utility Relocation	LS		\$-
7	Environmental Mitigation	LS		\$-
8	Grant Administration	LS		\$15,000
9	Bonding and Interest	LS		\$-
Subtotal				\$60,222

Basic Engineering Services				Cost \$
1	Design Phase	LS	10%	\$56,220
2	Construction Administration	LS	2.50%	\$14,055
3	Construction Observation (1 persons, 4 hrs per day for 90 days, \$70/HR)	Hrly		\$25,200
4	Reimbursable Expenses	RMB		\$3,300
Subtotal				\$98,775

Additional Engineering Services				Cost \$
1	Hourly Services	Hrly	1%	\$5,622
2	Geotechnical	LS		\$7,500
3	Permitting	LS		\$2,500
4	Easement Acquisition	LS		\$3,500
5	SWPPP	LS		\$4,500
6	PER	LS		\$7,000
7	Legal Survey	LS		\$8,000
8	Reimbursable Expenses	RMB		\$1,000
Subtotal				\$39,622

*Engineering paid by City

\$138,397

Total Professional Fees	\$198,619
Total Project Cost	\$760,818

This preliminary opinion of probably costs does not include sidewalks, stormwater structures or utility relocations

Independence Stormwater - Alternate					
W Cottonwood Street					
No.	Item	Est. QTY	Unit	Unit Price	Cost
22	Precast Box Culvert 20'x5'	1	LS	\$75,000	\$75,000
Subtotal					\$75,000
				Contingency	10% \$7,500
				Alternate 1 Construction Cost	\$82,500





25A N. MAIN • SAPULPA, OK 74066
1825 20TH RD • THAYER, KS 66776
WWW.MIDWEST-ENGINEERS.COM • 918.264.9405





U.S. ECONOMIC DEVELOPMENT ADMINISTRATION (EDA) GRANT FOR
**WHISKEY CREEK DRAINAGE
IMPROVEMENTS**

SYCAMORE & 20TH STREET | JUNE 2020



PROFESSIONAL ENGINEERING CONSULTANTS PA

June 18, 2020

Ms. Kelly Passauer, CPM
Acting City Manager/Zoning Administrator
811 West Laurel Street
Independence, KS 67301

RE: EDA Grant for Whiskey Creek Drainage Improvements (Sycamore Street and 20th Street)

Dear Ms. Passauer:

Frequent rain events in southeast Kansas reinforce the challenges faced with maintaining, planning, and designing suitable stormwater infrastructure. Stormwater conveyance systems can overload and eroded banks remain for municipalities to repair after a storm event. Attention to aging infrastructure and ongoing stormwater system maintenance is critical to providing a reliable conveyance system.

The Professional Engineering Consultants, PA (PEC) team is ready for the opportunity to serve the City of Independence. Our team is well versed in the processes to successfully complete drainage projects in fully developed and historic environs while reducing risk. Our experience with assisting cities with easement acquisition on numerous projects will be a benefit to this project. PEC provides a project team with experience in drainage studies, stormwater drainage design, hydraulic and hydrologic modeling, bank stabilization, and detention/retention facility design.

Additional experience includes Corps of Engineers, DWR, and KDHE permitting, funding and grant assistance, water quality improvements, and working with FEMA on projects within the regulatory floodplain. Creating consensus will remain at the forefront of all project tasks, as it has in the past. From relationships built during past projects with the City, we are confident solid, ideal solutions will be generated for each project.

PEC has the expertise needed in the study, planning, design, and construction phases to successfully complete your drainage project. As a multi-discipline firm, we provide a depth of knowledge and experience that will benefit these projects. Also, our capacity and availability ensure we can complete your projects in a timely manner with maximum public support. Close collaboration with the City of Independence on the recent water treatment plant projects has allowed our team to evaluate projects from every perspective and create positive outcomes. This has prepared us to do the same for your drainage projects. Our relationship with City staff will be even more important going forward to help manage any risks and ensure a successful project.

Directly following this letter is our Certification by Prospective Participants as to Current History Regarding Debarment, Eligibility, Indictments, Convictions, or Civil Judgments. It is our understanding from discussions with City staff that the Consulting Engineer Qualifications and Questionnaire noted in the RFQ is not required. If you would like this document, please me know and I will send it to you. As you review our submittal, please feel free to call with questions or comments. We look forward to more conversation about this important project, that is so vital to the future of Independence.

Respectfully submitted,

PROFESSIONAL ENGINEERING CONSULTANTS, PA



Michael D. Kelsey, PE
Principal-in-Charge

Certification by Prospective Participants as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments

Michael D. Kelsey, PE

President, Chairman, or Authorized Official

being duly sworn (or under penalty of perjury under the laws of the United States), certifies that, except as noted below, Professional Engineering Consultants, PA

Agency or Company

or any person associated therewith in the capacity of _____

Owner, partner, director, officer, principal investigator, project director, manager, auditor, or any other position involving the administration of federal funds.

is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years; does not have proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against (it) by a court of competent jurisdiction in any manner involving fraud or official misconduct within the past three years;

Exceptions _____

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder or respondent responsibility. For any exceptions noted, indicate below to whom it applies, initiating agency, and dates of action.

Providing false information may result in criminal prosecution or administrative sanctions.

Michael D. Kelsey

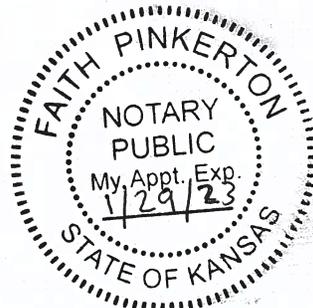
Signature

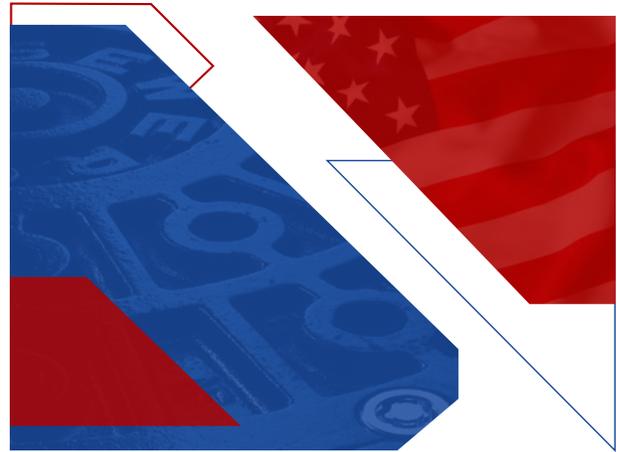
Sworn to before me, a Notary Public in and for the City of Independence, State of Kansas this 17th day of June 2020

Faith Pinkerton

Notary Public

My Commission expires 1/29/23





SECTION ONE

Capabilities of the Firm/
Past Performance

SECTION TWO

Qualified Personnel
- Organization Chart
- Resumes

SECTION THREE

Office Locations and References

SECTION FOUR

Commitment of Resources that
Could Limit Performance

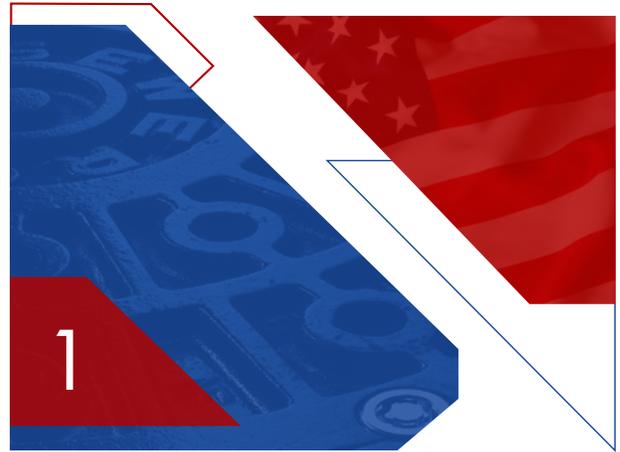
SECTION FIVE

Familiarity with Project Area
and Accessibility of Firm's Office

SECTION SIX

Ability to Deliver Project
On Time and Within Budget





SECTION ONE
Capabilities of the Firm/
Past Performance





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 50 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**
drainage/stormwater, transportation, water/wastewater, airports, municipal services, planning, land development, traffic engineering, construction administration, funding assistance
- **Field Services**
survey, geotechnical engineering, construction observation, special inspections, construction materials testing, commissioning, HVAC air and water balance
- **Facilities Engineering**
mechanical, electrical, structural, telecommunications, specialty lighting, plumbing, arc flash, specialty foundations
- **Specialty Services**
landscape architecture, site design, 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


www.pec1.com

KANSAS
 WICHITA | TOPEKA | LAWRENCE | PITTSBURG
 OKLAHOMA
 TULSA | OKLAHOMA CITY

MISSOURI
 KANSAS CITY
 COLORADO
 FORT COLLINS



FORD, MERIDIAN, RAMSEY STREETS PAVING AND DRAINAGE IMPROVEMENTS VALLEY CENTER, KS

PEC provided civil engineering design, as well as survey and geotechnical services for paving and drainage infrastructure improvements along Ford, Meridian, and Ramsey including construction of a 10-acre wet pond and 30-acre dry pond with stormwater sewer pump station, and stormwater sewer to alleviate flooding in the center of the City. The project components included environmental analysis and permitting, pavement geometry and traffic signal improvements, drainage analysis, and civil engineering design of all site design components to construct the largest public project undertaken in Valley Center's history.

**CADILLAC LAKE PARK WICHITA, KS**

This study assessed current and future flooding potential in the Cadillac Lake drainage basin, especially through the Chadsworth development. The study was precipitated by proposed development south of 29th Street immediately adjacent to Maize Road on both the east and west. Hydrologic and hydraulic computerized analyses were performed utilizing the HEC-HMS computer software to determine the base flood elevation (BFE) for the 100-year precipitation event. The development impacts approximately 12 out of the 41 acres of wetlands that are on the project site. Over 44 acres of wetlands are mitigated on the upstream property through restoration, enhancement and creation. An additional 20 acres of wetlands will be created off site at the Cowskin Creek Water Reclamation Facility. The public will have access to portions of both wetland mitigation sites that will provide recreational and educational opportunities. PEC provided the drainage study, drainage improvement design, and site/civil design for the multi-use development of the property including detention, wetlands mitigation, and regulatory permits.



BERLIN DRAINAGE AND SCHOOL DISTRICT POND ROSE HILL, KS

PEC provided survey, geotechnical, design, construction administration, and construction inspection services for this project. Project included assisting the City with acquisition of EPA funds to construct the project, and coordinating with the EPA during design and construction.

The Berlin Drive portion included approximately 750 LF of the stormwater sewer, designed to increase the capacity of the system and reduce flooding. In addition, channel grading, erosion protection, and tree clearing addressed drainage downstream of Berlin. The School Street Pond portion included a 9-acre detention pond on City Park property. This pond was designed to decrease storm water flows, restoring the peak runoff to pre-development conditions and reducing flooding concerns of downstream properties.

**CROSS CREEK WATERSHED JOINT DISTRICT NO. 42 IMPROVEMENTS ROSSVILLE, KS**

Cross Creek Watershed Joint District No. 42 currently consists of 32 existing dam structures: 15 are PL566 dams that were federally financed, designed and constructed; and 17 dams are state/locally financed, designed and constructed. PEC has been the District's engineer since 1991. PEC's responsibilities on these projects has included planning, surveying, dam design, wetlands design, construction inspection, annual inspection, and rehabilitation analysis and design. Specifically:

- PL566 Sites 1-15 (15 total): Annual inspections on all sites, and rehabilitation analysis and design on individual structures on an as-needed basis between 1994-present.
- Sites 104, 105, 109, 111, 119, 121 (6 total): Construction inspection on all sites between 1991 and 1993. Annual inspections on all sites, and rehabilitation analysis and design on individual structures on an as needed basis between 1994-present.
- Sites 102A, 103, 107, 108, 110, 112, 116, 123, 130, 131, 133 (11 total): New dam design and construction inspection on all sites between 1994-present. Average construction cost of each dam approximately \$100,000 to \$150,000. Annual inspections on all sites, and rehabilitation analysis and design on individual structures on an as-needed basis between 1994-present.
- Rehabilitation design included: Repair of dam embankments and wave berms; replacement of principal spillway inlet risers; repair of principal spillway pipe by lining; repair of downstream stilling basins; miscellaneous erosion, fencing, and sitework repair.



19TH STREET, IOWA STREET TO ALABAMA STREET LAWRENCE, KS

The idea to reconstruct this portion of 19th Street came about as part of the City of Lawrence's 10-year infrastructure sales tax plan spanning from 2009 to 2019. Voters approved extending this plan another 10 years in the Fall 2017 elections. Deteriorating pavement conditions and increasing traffic volumes demonstrated the need for this project to complete before renewal of the existing sales tax plan. Also, the plans for the University of Kansas' \$350 million Central District project were in the works and the intersection of 19th Street and Ousdahl Road to become the primary entrance for these improvements.

The roadway alignment of 19th Street was preserved and included widening to have three lanes, bicycle lanes, and a shared-use sidewalk along parts of the project. Traffic signal improvements at the intersections of 19th Street and Ousdahl Road and 19th Street and Naismith Drive support public safety through this improved corridor. Improvements to the water distribution system, sanitary sewer system, and storm sewer system are also included in this project. The final portion of this project includes the addition of pedestrian tunnels at the intersection of Iowa (US-59) and 19th Street for an additional cost of more than \$2 million. The City was awarded a Transportation Alternative (TA) project from the Kansas Department of Transportation (KDOT) costing \$1.6 million sharing with the state; KU agreed to participate with up to \$400,000. This part of the project included retaining walls and additional grading to meet ADA requirements through the proposed tunnels and approaches. Moving pedestrians off of the busy 19th Street and Iowa intersection will make this addition a huge safety improvement for the area residents and KU students.

This project was split up into three phases to minimize the impact to KU students and local Lawrence residents.

- Phase 1 - Completed in 2016: 19th Street and Ousdahl intersection
- Phase 2 - Completed in 2017: West of Naismith Drive to 19th Street and Alabama Street intersection
- Phase 3 - Completed in 2019: Iowa Street to Alabama Street and Pedestrian tunnels



MASTER DRAINAGE STUDY VALLEY CENTER, KS

PEC performed a comprehensive master drainage plan for the City. Scope included review of known areas of concern for drainage and flooding, determining solutions to solve the local drainage problems, and determining optional solutions and costs to fix the problem areas. The project included public meetings/workshops with the City Council and citizens to discuss concerns, and then included a prioritized plan to complete proposed improvements. The City has successfully completed a significant portion of those projects in their 10-year CIP. After the 10 year CIP was completed, all of the top priority improvements were completed, and several other lower priority improvements were completed with other associated projects. The City then hired PEC in 2015 to perform an update to the drainage plan and re-prioritize the improvements.



UNIVERSITY OF KANSAS CENTRAL DISTRICT DEVELOPMENT PROJECT LAWRENCE, KS

PEC provided stormwater management design for this 55-acre development on the University of Kansas campus. The scope included a regional watershed and detention study of pre/post development scenarios for stormwater quantity and quality management. The study determined the impacts of the proposed development on the downstream watershed and considered various alternatives to water quantity and quality control. These alternatives were evaluated with cost-to-benefit analysis in order to select the most effective solution. Adherence to City of Lawrence stormwater requirements and coordination with City staff were mandatory.

A wide range of drainage solutions for quantity control were considered including underground structures, above ground multi-use basins, and various combinations of above and below ground storage areas. Throughout the study, accurate and consistent cost estimating was maintained using current bid tabs, KDOT quarterly data, contractor, and subcontractor estimates.

Final design incorporated the proposed recommendations of regional storm collection and detention network for the proposed education halls, recreational and practice fields, and parking areas.

PEC maintains close working relationships with a number of contractors specializing in various areas of construction and is able to utilize this “real world” expertise to develop accurate cost estimates.



K-15 STORMWATER OUTFALL REPAIR WICHITA, KS

The repair of this stormwater sewer washout at the extension of 31st Street South westward to the Central Avenue drainage involved producing alternative design concept plans, topographic surveys, repair design, erosion control plans, and landscaping plans and details. PEC identified utility conflicts according to the City’s ULCC process and developed SWPPP.

MASTER DRAINAGE PLAN HAYSVILLE, KS

The City of Haysville requested that PEC assist in the formulation of a master drainage plan. The work leading up to the final presentation of the master plan included analysis of areas with deficient drainage that were susceptible to flooding. Improvements to remedy these problems effectively and economically were presented at workshops and City Council meetings to solicit input and other concerns from the public. A prioritized project list based on this feedback was incorporated in the final recommendations.



MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OTTAWA, KS

The City of Ottawa, Kansas is required to maintain a Municipal Separate Storm Sewer System (MS4) NPDES permit to discharge stormwater. PEC is a partner in assisting the City to comply with the permit requirements. In this role, PEC assists with regulatory reporting and auditing, water quality testing, and water quality data analysis. PEC also aids in developing Capital Improvement Projects that improve water quality, as well review of the City's development and zoning regulations as they relate to stormwater management and quality. Nearly all of the streams the City discharges stormwater into originate outside of the City limits. PEC is also working to identify organizations beyond the City's jurisdiction that can assist in resolving water quality issues in the area.

SINCLAIR REFINERY SOUTHWEST BOULEVARD SITE DEVELOPMENT TULSA, OK

Sinclair Refinery purchased a 10-acre site adjacent to its existing property as part of a significant plant expansion in Tulsa. PEC performed survey, drainage study, and design drainage improvements while working intensively with City of Tulsa Development Services Division. Additional review was performed to establish any detrimental impacts to adjacent properties as a result of the proposed improvements.



HARVARD AVENUE BETWEEN 41ST AND 51ST STREET TULSA, OK

PEC is currently working with the City of Tulsa to design infrastructure improvements on Harvard Avenue that includes stormwater and water utility relocations and pavement restoration. The design of the water utilities include relocation of an existing 12-inch water main and the accommodation of a parallel 24-inch main that will be constructed in the future. Planning for the alignment of these water mains has resulted in the need to relocate portions of the existing stormwater system beneath Harvard Avenue.

In addition to performing the analysis of the pre/post development stormwater conditions, PEC is designing the relocation of the existing collection system and construction of other proposed improvements. Upon completion of the project, the stormwater collection system for Harvard Avenue will be sized to accommodate the 100-year storm event.

In order for stormwater collection to remain fully functional during the course of construction, frequent coordination between PEC and the City of Tulsa has been critical to successfully facilitate not only the locations of the utilities, but also to properly identify the construction sequencing. Strategic phasing of both the water and stormwater utilities will be well planned with respect to utility relocation and construction, pavement restoration, and traffic control during these activities.

KANSAS DEPARTMENT OF WILDLIFE PARKS AND TOURISM

MAXWELL WILDLIFE REFUGE BANK STABILIZATION MCPHERSON COUNTY, KS

Bison and elk herds are managed at Maxwell Wildlife Refuge area where any ordinary livestock fencing would be inadequate to control the herds within the management area. Stream bank erosion along the banks of Battle Creek was endangering the foundation integrity of the livestock water-gap control structure and adjacent fencing. This project included repairs to eroded stream banks near the existing structure by means of bank sloping and placing rip-rap reinforcement. A new water-gap structure was designed to complement the bank improvements and accommodate the 9-foot fence height.



SAND CREEK BANK RESTORATION AND MULTI-USE PATH NEWTON, KS

Once a source of flooding in downtown Newton, Sand Creek now has stabilized stream banks, a stream-side walking and biking path, and offers non-motorized boating. It is more than a drainage system. It is a destination for citizens and community visitors. Funding was shared with \$5 million from the Corps of Engineers and \$4 million from City of Newton general obligation budget funds.

During construction, more than 175,000 cubic yards of dirt was excavated, the banks were lined with more than 68,000 tons of quarry run stone, and 10,000 feet of retaining walls were installed. Along with the bank restoration, the project included a 35-acre wetland near the wastewater treatment plant and two hardwood tree plantings along the creek south of the dam and upstream of the Union Pacific Railroad trestle in Centennial Park.

The benefits resulting from Newton's streambank restoration included improved aquatic and riparian habitat, increased access to the public and added safety for users. Restoring wetlands and improving the health of a stream and its bordering lands are valuable not only because they are attractive but because they contribute to the environment in many ways including:

- Improving water quality
- Preventing soil erosion
- Lessening the frequency and severity of flooding
- Providing wildlife habitat

PEC provided civil engineering, survey and geotechnical services. This project won the Kansas Chapter of the ACEC Project of the Year Award.



KOCH INDUSTRIES CAMPUS EXPANSION WICHITA, KS

PEC provided civil engineering design services for the relocation of approximately one mile of arterial roadway around the new Koch Industries Campus Expansion. This project included a new five-lane roadway section design with right turn acceleration and deceleration lanes at the major intersections. The project also included land use planning, zoning and platting strategy, environmental analysis and permitting, traffic and transportation analysis, utility analysis, drainage analysis, geotechnical assessment, and landscape design. PEC provided earthwork, grading, and pavement including drives, campus roadways, and extensive parking. PEC was also responsible for stormwater management, waterline, sanitary sewer, lift station, irrigation pump station, and construction sequencing.



OTHER PEC DRAINAGE EXPERIENCE

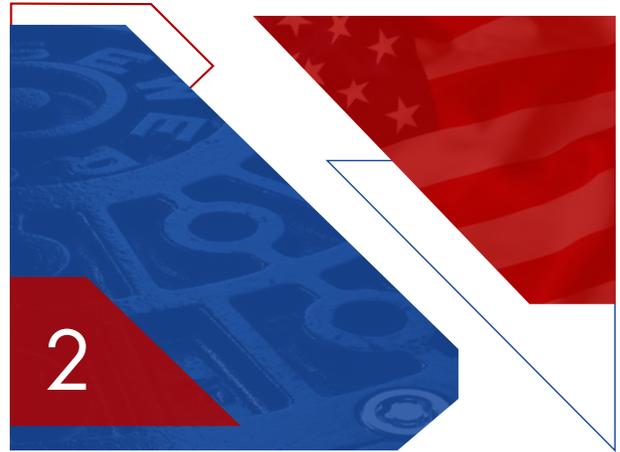
Miller's Professional Imaging Drainage Study Phase 1; Pittsburg, KS
 Riverside Park Drainage Study; Iola, KS
 Scott Street Drainage Study Phase 1 and 2; Iola, KS
 Horton Street Storm Sewer Repair and Drainage Improvements; Fort Scott, KS
 Stormwater Study for Drainage at Seventh and National; Fort Scott, KS
 Washington and Main Drainage Study; Weir, KS
 Girard Medical Center Expansion Drainage Study; Girard, KS



The following projects demonstrate PEC's familiarity with CDBG, Rural Development, and KDHE State Revolving Loan Fund requirements, as well as other federally funded projects.

Name of Project	Type of Grant	Project Cost	Design	Project Admin
Medicine Lodge Water System Improvements	CDBG/USDA RD	\$4,500,000	✓	✓
Greenwood County RWD 1 Water System Improvements	USDA RD	\$4,000,000	✓	✓
Neodesha Sewer and Water Improvements	USDA RD	\$8,000,000	✓	✓
Neodesha Gas Distribution System Improvements	CDBG/USDA RD	\$2,400,000	✓	✓
Greensburg Electrical Distribution System	FEMA	\$4,200,000	✓	✓
Greensburg Water Tower	FEMA/KDHE/ USDA	\$676,000	✓	✓
Greensburg Streetlights	FEMA	\$1,300,000	✓	✓
Weir Water Distribution System	CDBG/USDA RD	\$1,200,000	✓	✓
Moline Sanitary Sewer Improvements	CDBG/USDA RD	\$1,300,000	✓	✓
Chautauqua Hills PWWSD No. 20	CDBG/USDA RD	\$9,500,000	✓	✓
Fort Scott Storm Water System	CDBG	\$1,330,000	✓	✓
Fort Scott Sanitary Sewer Improvements	CDBG	\$1,500,000	✓	✓
Pittsburg Wastewater Treatment Plant	EPA/KDHE	\$4,970,000	✓	✓
Pittsburg Superior Industries Site	EDA/KDHE	\$1,500,000	✓	✓
Pittsburg Water Aeration Basin	CDBG	\$200,000	✓	✓
City of Gas Water Distribution System	CDBG	\$532,000	✓	✓
Newton Water Tower	KDHE	\$700,000	✓	✓
Rose Hill Lift Station Replacement	KDHE	\$400,000	✓	✓
Haysville Emergency Water Repairs	CDBG	\$480,000	✓	✓
Valley Center Waterline Replacements	KDHE	\$200,000	✓	✓
Erie Water System Improvements	EPA/KDHE	\$500,000	✓	✓
Ponca City Wastewater Plant	EPA/ODEQ	\$6,500,000	✓	✓
Haysville Water System	CDBG	\$500,000	✓	✓
Neodesha Water System	CDBG	\$500,000	✓	✓
Gyp Hills Regional Landfill	KDHE	\$200,000	✓	✓
KS Dept. of Emergency Preparedness/ Clean Air Act	KDHE	\$63,000	✓	✓

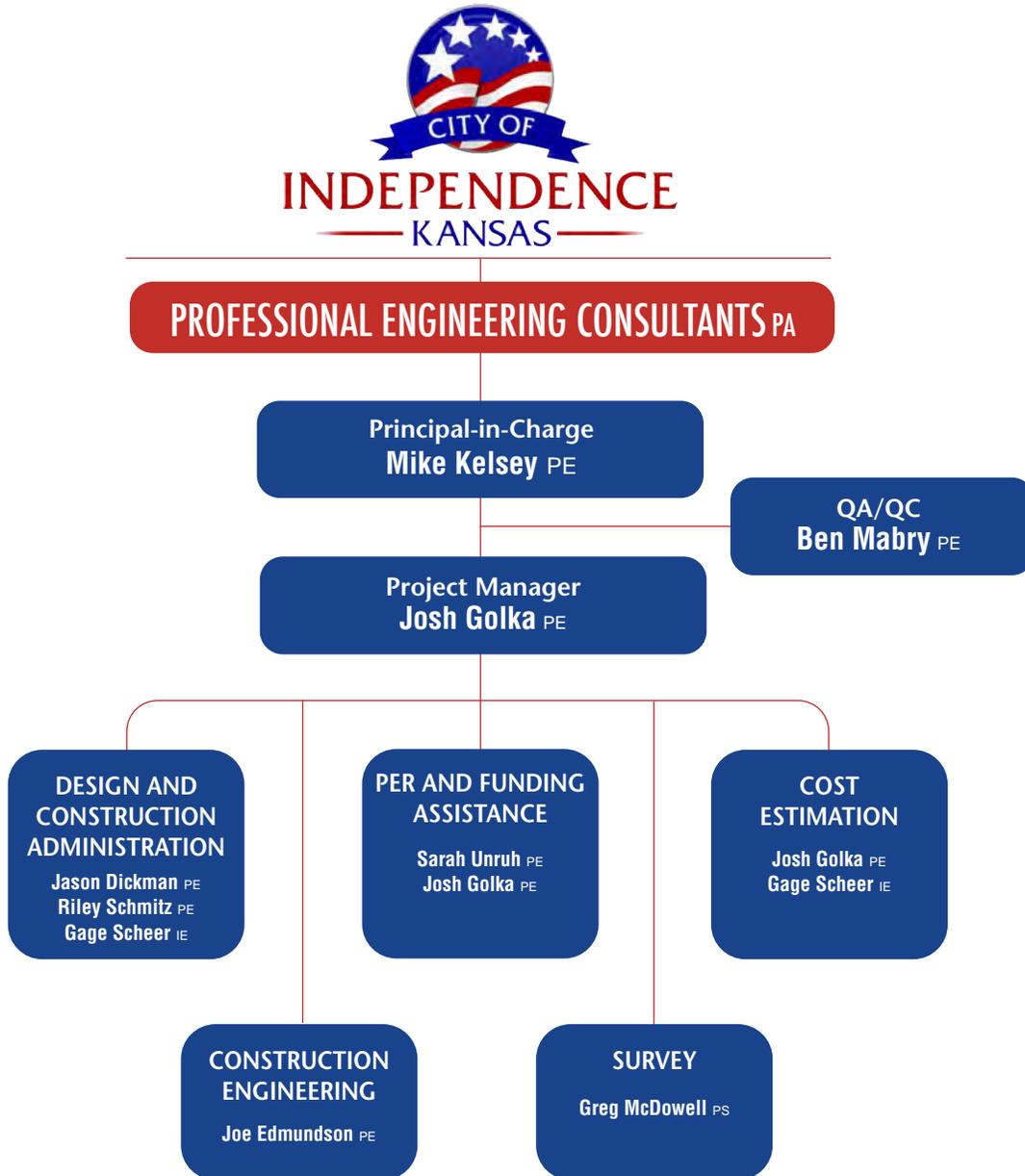




SECTION TWO
Qualified Personnel
- Organization Chart
- Resumes



Team Organization and Resumes



Michael D. Kelsey PE

PRINCIPAL-IN-CHARGE

Mike is the Manager of the Municipal Services Division. He also serves on the PEC Board of Directors. He specializes in waterlines, drainage systems, stormwater, and sanitary sewer line projects. His other responsibilities include lift station and pump station design, as well as large diameter water mains, sanitary sewer mains, storage systems, and large diameter sanitary interceptors.

Mike's project experience includes:

- Sand Creek Bank Restoration and Multi-Use Path; Newton, KS
- Ford, Meridian, Ramsey Streets Paving and Drainage Improvements; Valley Center, KS
- Cadillac Lake Park; Wichita, KS
- Master Drainage Plan; Haysville, KS
- Koch Industries Campus Expansion; Wichita, KS
- Berlin Drainage and School District Pond; Rose Hill, KS
- 79th Street Pond and Stream improvements; Haysville, KS
- Meridian Stormwater Sewer Extension from 5th to 6th Street; Valley Center, KS
- Drainage Improvements Southeast of Rosewood; Rose Hill, KS
- New Market Retail Center Office Paving and Drainage Improvements; Wichita, KS
- Wesley Medical Center Storm Sewer Improvements; Wichita, KS
- Cox Acres Paving and Drainage Improvements; Rose Hill, KS
- Glen Meadows Stormwater Drainage; Wichita, KS
- Sanitary Sewer and Water Master Plans for Valley Center, Rose Hill, Haysville, Sedgwick, Newton, and North Newton, KS
- Southeast Interceptor Design; Derby, KS
- Sanitary Sewer Line Underneath I-135; Wichita, KS
- 42-inch and 36-inch War Industries Relief Sewer Phases 1-3; Wichita, KS
- 36-inch and 30-inch South Side Sewer; Newton, KS
- 54-inch Wastewater Treatment Plant 2 Force Main and Division Structure; Wichita, KS
- St. Francis Street, Douglas Avenue to 2nd Street North, Sanitary Sewer; Wichita, KS
- Industrial Park 2nd Sanitary Sewer; Valley Center, KS
- Evergreen Lift Station and Force Main; Wichita, KS
- NW Industrial Park Force Main and Lift Station; El Dorado, KS
- Custer Hill Beddown Facility Force Main and Lift Station; Fort Riley, KS
- Stearman Estates Force Main and Sanitary Sewer Lift Station; Benton, KS
- 13th Street North and Bayshore Drive/Lakewind Street Lift Station and Sanitary Sewer; Wichita, KS
- 45-inch Sanitary Sewer Rehabilitation; Hutchinson, KS
- Sanitary Sewer Rehabilitation; Newton, KS
- Sanitary Sewer Rehabilitation, Topeka Street to St. Francis; Wichita, KS
- Sanitary Sewer Rehabilitation; Valley Center, KS



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

PROFESSIONAL ENGINEER
Kansas | Colorado | Oklahoma

EDUCATION
Kansas State University,
Bachelor of Science
Civil Engineering, 1991

YEARS OF EXPERIENCE
29 years



Joshua A. Golka PE

PROJECT MANAGER | PER AND FUNDING ASSISTANCE | COST ESTIMATION

Josh's responsibilities include design, plan and specification development, and QA/QC for various site civil projects including grading, paving, drainage, storm sewer layout, and geometric design. He serves as the engineering city representative for the Cities of Valley Center and Great Bend. Josh is also a leading expert for PEC in hydrologic and hydraulic modeling including HEC-HMS, HEC-RAS, Hydraflow, and StormCAD Sewer Analysis.

Josh's project experience includes:

- Ford, Meridian, Ramsey Streets Paving and Drainage Improvements; Valley Center, KS
- K-15 Stormwater Outfall Repair; Wichita, KS
- Cadillac Lake Park; Wichita, KS
- Master Drainage Plan; Haysville, KS
- Koch Industries Campus Expansion; Wichita, KS
- Berlin Drainage and School District Pond; Rose Hill, KS
- 79th Street Pond and Stream Improvements; Haysville, KS
- Drainage Improvements NE of Park Avenue and Frey Street; Great Bend, KS
- Douglas and Edwards Drainage Improvements; Wichita, KS
- Wastewater Treatment Plant Stormwater Permitting; Haysville, KS
- Wichita Eisenhower National Airport Stormwater Quality Study; Wichita, KS
- Lifeline Foods Floodway No-Rise Evaluation and LOMR; St. Joseph, MO
- Drainage Improvements at Douglas and Edwards; Wichita, KS
- FEMA Survey and Flooding Evaluation; Medicine Lodge, KS
- Dam Emergency Action Plan; Colwich, KS
- Wesley Medical Center Storm Sewer Improvements; Wichita, KS
- Industrial Park Drainage and Paving Improvements; Valley Center, KS
- Sanitary Sewer System Rehabilitation Phase 2; Valley Center, KS
- H Street Sanitary Sewer Study; Wellington, KS
- South Base Multiple Infrastructure Projects; McConnell Air Force Base, KS
- Kansas Crossing Casino Site Development; Pittsburg, KS



PROFESSIONAL ENGINEERING CONSULTANTS, PA

PROFESSIONAL ENGINEER

Kansas | Colorado | Washington

EDUCATION

University of Kansas,
Bachelor of Science
Civil Engineering, 2010

YEARS OF EXPERIENCE

10 years



Benjamin M. Mabry PE

QA/QC

Ben is responsible for design, plan, and specification development for municipal transportation and site civil projects including grading, paving, drainage, utility layout, and geometric design. His responsibilities also include design of roadway horizontal and vertical geometrics, intersection design, multi-use path design, stormwater sewer design, drainage and stormwater system modeling, and management of the design team. Ben's software capabilities include HEC-RAS, HEC-HMS, HEC-1, Hydraflow, StormCad, AutoCad Civil 3D, and AutoTurn. Ben also serves as the City Engineer representative for the Cities of Haysville, Colwich, and Kechi.

Ben's project experience includes:

- University of Kansas Central District Development; Lawrence, KS
- Ford, Meridian, Ramsey Streets Paving and Drainage Improvements; Valley Center, KS
- Cadillac Lake Park; Wichita, KS
- Master Drainage Plan; Haysville, KS
- Berlin Drainage and School District Pond; Rose Hill, KS
- 79th Street Pond and Stream Improvements; Haysville, KS
- Rockwood Falls Addition Streets, Sidewalk, and Drainage; Rose Hill, KS
- Business Park Platting, Parking, Paving and Drainage; Greensburg, KS
- Industrial Park 2nd Addition Streets and Drainage; Sedgwick, KS
- Karla Avenue Paving and Drainage; Haysville, KS
- NW Industrial Park Paving and Drainage Improvements including Sanitary Sewer Extension; El Dorado, KS
- Union Avenue and Colorado Street Improvements including Drainage; Colwich, KS
- South Turtle Drainage Improvements; Haysville, KS
- Grading and Drainage Plans for Prairie Pointe, Evergreen, Oak Creek, and Fontana Subdivisions; Wichita, KS
- Ridgefield Addition Waterlines, Sanitary Sewer, Streets and Drainage; Valley Center, KS
- Grading and Drainage Plans for Webb Business Park, River Forest, and Rock Pointe Subdivisions; Wichita, Haysville, and Kechi, KS
- Rock Pointe Paving and Stormwater Drainage; Kechi, KS
- Mimosa Drive Street and Storm Sewer Improvements; Haysville, KS
- Country Lakes Street and Utilities; Haysville, KS
- Capehart Stormwater Sewer System Study; McConnell Air Force Base, KS
- Stormwater Detention Dam; Sedgwick, KS
- Textron East Campus KDHE Stormwater Permitting Assistance; Wichita, KS
- 167th Street West and Wichita Avenue to 57th Street North; Colwich, KS
- Estes Road and Graves Road Paving; Fort Riley, KS



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

PROFESSIONAL ENGINEER
Kansas | Colorado | Oklahoma

EDUCATION
University of Kansas,
Bachelor of Science
Civil Engineering, 2005

YEARS OF EXPERIENCE
15 years



Jason P. Dickman PE

DESIGN AND CONSTRUCTION ADMINISTRATION | COST ESTIMATION

Jason manages PEC's Pittsburg office. He works with various municipalities and private developers in SE Kansas coordinating a wide variety of projects. Jason specializes in designing city roadway, waterline, sanitary, and storm sewer projects. He also has experience with residential and commercial developments, road, and bridge projects. Jason's other duties include completing drainage studies and writing drainage reports.

Jason's project experience includes:

- Seventh Street Drainage and Street Improvements; Jenks, OK
- First Street Drainage and Street Improvements; Jenks, OK
- Mulberry Street Storm Sewer Study; Columbus, KS
- Kansas Crossing Casino Flood Study; Pittsburg, KS
- Preliminary Engineering Report for Drainage at 1st and Main; El Dorado, KS
- Sewer Manhole Study and Preliminary Engineering Report; Fredonia, KS
- FLAG Church North Parking Lot Drainage Concept Plan; Pittsburg, KS
- Community Health Center Clinic Grading, Paving, Drainage, Detention, Utilities, and Landscaping; Iola, KS
- Sanitary Sewer and Waterline Relocations; Arma, KS
- Pittsburg State University Kelce Business College Site Civil Plans and City Utility Relocations; Pittsburg, KS
- KMT Waterjet Expansion Site Civil Plans; Baxter Springs, KS
- USD 249 Frontenac Tornado Safe Room Additions Site Civil; Frontenac, KS
- Jolly Fox Brewery Site Civil Plans; Pittsburg, KS
- SH-33 Utilities Relocation; Cushing, OK
- 1st Street and 7th Street Improvements; Jenks, OK
- 2016-2017 Street Maintenance Program Multiple Street Improvement Projects; Topeka, KS
 - SW 29th Street, Burlingame Road to Topeka Boulevard
- 19th Street Reconstruction, Iowa Street to Naismith Drive; Lawrence, KS
- Kansas Department of Transportation (KDOT)
 - Pedestrian Tunnels at 19th Street and Iowa Street (US-59); Lawrence, KS
 - US-69/US-400 Intersection Improvements; Pittsburg, KS
 - US-69 Sanitary Sewer and Waterline Relocation; Arma, KS
 - Hike and Bike Path; Pittsburg, KS
 - High Risk Rural Road Project; Crawford County, KS
 - US-56/K-156/K-96 and Grant Street Intersection; Great Bend, KS
 - Rock Road Shared-Use Path; Sedgwick County, KS
- Non-Arterial Maintenance Zone 8063-S 3.5 Mile Pavement Rehabilitation and Replacement; Tulsa, OK
- South Pittsburg Electric Substation; Pittsburg, KS
- Sugar Creek North Parking Lot; Frontenac, KS



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

PROFESSIONAL ENGINEER
Kansas | Oklahoma

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

YEARS OF EXPERIENCE
21 years



Riley J. Schmitz PE

DESIGN AND CONSTRUCTION ADMINISTRATION

Riley is responsible for the design and analysis of highway and drainage projects. He specializes in roadway design and hydrologic and hydraulic (H&H) modeling and analysis. Riley has experience in AutoCAD Civil 3D and HEC-RAS.

Riley's project experience includes:

- I-135 Drainage Canal Repairs; Wichita, KS
- Kansas Turnpike Authority Big Slough South LOMR; Wichita, KS
- Commerce Street Paving and Drainage Improvements; Andover, KS
- North Industrial Park Drainage Survey; Ottawa, KS
- Drainage Study Channel Phase 1; Sedgwick County, KS
- Timber Creek Estates Paving and Drainage Phase 2; Haysville, KS
- Yorktown Parkway Paving and Drainage Improvements; Andover, KS
- Viega Logistics Drainage Study; McPherson, KS
- Pendleton Avenue Drainage; Joint Base Lewis McChord, WA
- McLean Boulevard from Maple to Douglas; Wichita, KS
- Kansas Turnpike Authority Cattle Pens Interchange; Bazaar, KS
- Pawnee Avenue, Webb to Greenwich; Wichita, KS
- North Main Street Paving Improvements; Haysville, KS
- Waco Paving Improvements, Douglas to Central; Wichita, KS
- Douglas Avenue Streetscape from Main Street to Washington Street; Wichita, KS
- 5th Street Paving Improvements; Valley Center, KS
- K-96 Highway and Hoover Road Interchange Improvements; Wichita, KS
- 17th Street North and Oliver Intersection; Wichita, KS
- Industrial Park Master Plan; El Dorado
- 8th Street Paving Improvements; Great Bend, KS
- 2019 Resurfacing Improvements - Williams Street and Kansas Avenue; Great Bend, KS
- Riverfront Baseball Stadium; Wichita, KS
- Three Bridges on SH-20 between US-75 and Collinsville including H&H Study; Tulsa County, OK
- US-64 over Ranch Creek including H&H; Pawnee County, OK
- SH-95 over Goff Creek including H&H; Texas County, OK
- Bridge Reconstruction including H&H; Pawnee County, OK



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

PROFESSIONAL ENGINEER
Kansas

EDUCATION
South Dakota State University,
Bachelor of Science
Civil Engineering, 2010

YEARS OF EXPERIENCE
10 years



Gage A. Scheer IE

DESIGN AND CONSTRUCTION ADMINISTRATION

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, HEC-RAS, Hydraflow, and AutoCad Civil 3D.

Gage's project experience includes:

- Master Drainage Plan; Valley Center, KS
- Fontana 5th Addition Stormwater Drain Phase 1; Wichita, KS
- Carriage Oaks Subdivision Stormwater Drain; Wichita, KS
- 5th Street Paving from Broadway to the Floodway including Storm Sewer; Valley Center, KS
- Storm Water Sewer Investigation; Great Bend, KS
- Home Base Addition Phase Stormwater Drain; Wichita, KS
- Cross Pointe Development Stormwater Drain; Wichita, KS
- Storm Sewer Improvements from Hillside Street to Serve Wesley Medical Center; Wichita, KS
- Sanitary Sewer System Improvements Funding Assistance; Andale, KS
- University of Kansas Sanitary Sewer Study and Rehabilitation; Lawrence, KS
- 2017 Sanitary Sewer Rehabilitation; Rose Hill, KS
- Sanitary Sewer Replacement between Lincoln Street and 4th Street; Wellington, KS
- Country Lakes 2nd Addition Sanitary Sewer Phase 1; Haysville, KS
- Cowley College Sanitary Sewer Improvements; Wellington, KS
- Sanitary Sewer System Rehabilitation; Auburn, KS
- 8th Street Waterline and Sanitary Sewer Improvements; Great Bend, KS
- Dodge City High School Football Stadium Sanitary Sewer Improvements; Dodge City, KS
- 10th Street Water Main Replacement; Great Bend, KS
- Water Treatment Plant 2 Force Main; Wichita, KS
- Broadway Street Waterline from 55th Street to 63rd Street; Wichita, KS
- Waterline Improvements along Maple Street from 162nd Street to 167th Street West and along 167th Street from Maple Street to Apollo Street; Wichita, KS
- Waterline Improvements along 159th Street East, Lincoln Street, and Brookhaven Street; Wichita, KS
- Carriage Oaks 2nd Addition Survey, Plat, and Grading Plan; Wichita, KS
- Riverfront Baseball Stadium; Wichita, KS



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

INTERN ENGINEER
Kansas

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

YEARS OF EXPERIENCE
3 years



Sarah C. Unruh PE

PER AND FUNDING ASSISTANCE

Sarah specializes in 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's project experience includes:

- Ford Street Stormwater Pump Station (SWPS) and Pond Improvements; Valley Center, KS
- Stormwater Pump Stations 2 and 4; Wichita, KS
- Master Sewer Plan Update; Dodge City, KS
- Sewer Master Plan; Garden City, KS
- Wastewater Treatment Plant Improvements; Concordia, KS
- Wastewater Treatment and Resource Management Facility; Rose Hill, KS
- Wastewater Treatment Plant Improvements Phase 2; Newton, KS
- Wastewater Treatment Plant Improvements; Valley Center, KS
- Wastewater Treatment Nutrient Study; Concordia, KS
- Wastewater Treatment Nutrient Study; Garden City, KS
- Wastewater Treatment Nutrient Study; Emporia, KS
- Water Reclamation Facility and Beneficial Reuse; Dodge City, KS
- Biogas Treatment Facility; Dodge City, KS
- Advanced Wastewater Treatment Plant; Fort Riley, KS
- Wastewater Transmission Line; Liberal, KS
- Water System Master Plan and Distribution System Analysis; Pittsburg, KS
- Water Treatment Facility; Blackwell, OK
- Lift Station and Sanitary Sewer Improvements; Dodge City, KS
- Force Main from Plant 1 to Plant 2; Wichita, KS
- Water Treatment Plant Expansion; Emporia, KS
- Design-Build Water Treatment Plant; Mulvane, KS
- Water Master Plan and Water Treatment Facility; Greensburg, KS
- Water System Evaluation, Groundwater Remediation, and RO Water Treatment Center; Hutchinson, KS
- Water Treatment Facility Improvements; Pittsburg, KS
- Water Quality Reclamation Facility with Beneficial Reuse; Dodge City, KS
- Duncan Area Economic Development Foundation Water Rate Study; Duncan, OK
- Water and Sewer Rate Study; Sterling, CO
- Water Rate Study; Valley Center, KS
- Water and Sewer Rate Study; Dodge City, KS
- Water Rate Study; Derby, KS
- Water Supply, Reuse, and Storage Study; Derby, KS
- Water System Evaluation, Water Wells, and Water Supply Line; Dodge City, KS



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

PROFESSIONAL ENGINEER
Kansas | Oklahoma

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

YEARS OF EXPERIENCE
21 years



Bradley J. Edmundson PE

CONSTRUCTION ENGINEERING

Joe is the Manager of the Field Services Department. He is responsible for overseeing the day-to-day activities of inspection, materials testing, survey, and geotechnical staff. Along with his manager duties, Joe specializes in inspection for all types of construction. He provides communication and coordination between the owner and contractor, and assuring safety of all personnel and property during the construction phase.

Joe's project experience includes:

- New Market Square Retail Storm Sewer; Wichita, KS
- Fontana Subdivision Storm Water Drain; Wichita, KS
- Industrial Park 2nd Addition Paving and Drainage, Sedgwick, KS
- SW 14th Street Paving and Drainage; Newton, KS
- Dwight D. Eisenhower National Airport; Wichita, KS
 - Terminal Redevelopment
 - Terminal Apron
 - GA Apron Repairs
 - IR-19L, 1L-19R Asphalt Shoulder, Blast Pad Rehabilitation, and Taxiway D Asphalt Shoulder Rehabilitation
 - Taxiways L, H, and H1
 - Taxiway E, A, A1, and North GA Apron
 - Taxilane Reconstruction
 - Taxiway N and M
 - Air Carrier Apron East and West Reconstruction
 - Rotating Beacon Relocation
- Colonel James Jabara Airport; Wichita, KS
 - Paving, Drainage, and T-Hangars Improvements
 - Airfield Lighting Replacement
 - Runway Pavement Rehabilitation
 - Pavement Condition Survey
 - Taxiway F and G
 - Taxiway A-1 and Apron
 - Southwest Development Improvements
- Newton City-County Airport T-Hangar and Taxiway; Newton, KS
- Atkinson Municipal Airport Runway 4-22 Reconstruction; Pittsburg, KS
- Russell Municipal Airport Taxiways and Apron Reconstruction; Russell, KS
- Textron Aviation Beechcraft Taxiway A at Beech Airfield; Wichita, KS



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

PROFESSIONAL ENGINEER
Kansas | Iowa

EDUCATION
Iowa State University,
Bachelor of Science
Civil Engineering, 1985

YEARS OF EXPERIENCE
35 years



Gregory E. McDowell ^{PS}

SURVEY

Greg is responsible for supervising design, construction, and boundary surveys. His duties include site research; project management; computations and calculations; preparation of plats and legal descriptions; quality control; collecting data for sanitary sewer, storm sewer, street, and waterline design; and topography surveys, boundary surveys, and construction staking.

Greg's project experience includes:

- Storm Sewer Study; Columbus, KS
- FLAG Church North Parking Lot Drainage Concept Plan; Pittsburg, KS
- Mulberry Street Storm Sewer Study; Columbus, KS
- Sanitary Sewer Collection System Study; Columbus, KS
- Meadowbrook Mall Sanitary Sewer; Pittsburg, KS
- Sanitary Sewer Lift Station Rehabilitation; Winfield, KS
- Sanitary Sewer System Study; Fredonia, KS
- Kansas Crossing Casino Water and Sanitary Sewer; Pittsburg, KS
- Taylor Branch Sewer; Pittsburg, KS
- 3900 and 4000 Road Survey; Independence, KS
- US-400 Passing Lanes; Pittsburg, KS
- US-69B Broadway and Centennial Avenue; Pittsburg, KS
- Burlington Northern Santa Fe Corporation Railroad Improvements; Parsons, KS
- Kansas Turnpike Authority Cattle Pens Interchange; Bazaar, KS
- 20th and Broadway Reconstruction; Pittsburg, KS
- 2015 Safe Routes to School; Fort Scott, KS
- K-7 and K-47 Geometric Improvements; Girard, KS
- Rubbermaid 12th Street Improvements; Winfield, KS
- Quincy Street Reconstruction; Pittsburg, KS
- K-103, Lincoln to Jefferson Improvements; Weir, KS
- US-69 Access Project; Fort Scott, KS
- 2016 KLINK Resurfacing; El Dorado, KS
- FY14 Training Barracks Upgrade Program; Fort Leonard Wood, MO
- Harry S. Truman Memorial Veterans' Hospital Parking Garage Expansion Phase 2; Columbia, MO



**PROFESSIONAL ENGINEERING
CONSULTANTS, PA**

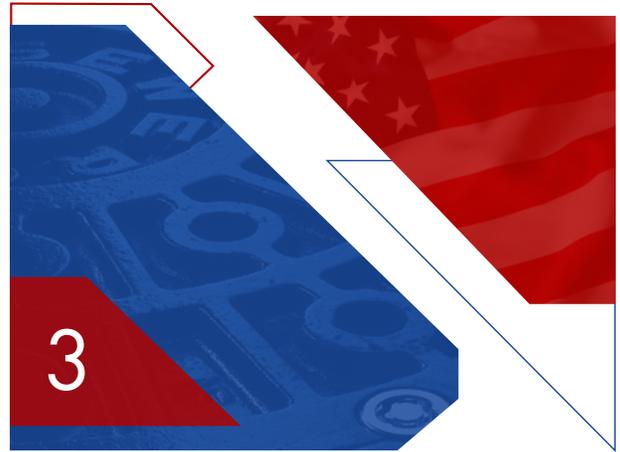
PROFESSIONAL SURVEYOR

Kansas

YEARS OF EXPERIENCE

26 years





SECTION THREE
Office Locations and References



Office Locations



References

PEC has a high percentage of repeat clientele. This clientele, which includes local government, federal government, and private industry, is a direct reflection of our firm's reputation for integrity and competence in all the engineering, planning, and technical disciplines.

Our clients are always first. The most important element in our job is serving our clients. Our reputation and ability to provide exceptional engineering services is verified by our high number of satisfied clients. The following client references attest to the integrity and competence of PEC and we invite you to contact them for additional information.

City of Wichita

Gary Janzen, PE
Assistant Director of Public Works
455 North Main
Wichita, KS 67202
316-268-4501
gjanzen@wichita.gov

City of Valley Center

Rodney Eggleston
Public Works Director
121 South Meridian
Valley Center, KS 67147
316-755-7310
reggleston@valleycenterks.org

City of Haysville

Tony Martinez
Director of Public Works
200 West Grand
Haysville, KS 67060
316-529-5940
tmartinez@haysville-ks.com

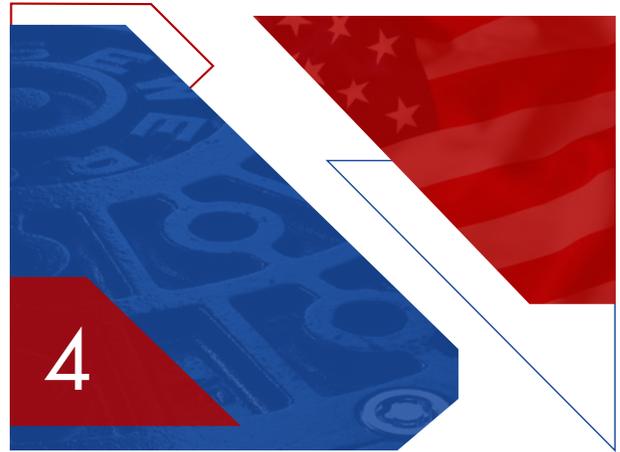
City of Newton

Suzanne Loomis, PE
Public Works Director/City Engineer
201 East 6th Street
Newton, KS 67114
316-284-6020
sloomis@newtonkansas.com

Cross Creek Watershed Joint District No. 42

Joseph Baumchen
President
P.O. Box 454
Rossville, KS 66533
785-267-2866
jwattlaw@gmail.com





SECTION FOUR
Commitment of Resources that
Could Limit Performance

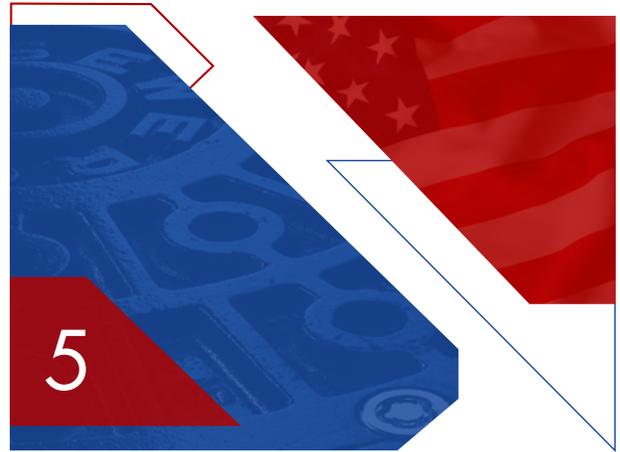


Commitment of Resources that Could Limit Resources

No limitations here! PEC engineers assigned to this project have the time, talent, and resources necessary to successfully complete it. This is great timing for our staff to hit the ground running. **PEC is your one-stop-shop!**

PEC inspectors and testers also have the credentials and skill sets necessary to complete your inspection construction engineering needs and to your expectations. PEC inspectors will utilize mobile devices such as a tablet or laptop computers for their daily work that are compatible with the KDOT CMS requirements.





SECTION FIVE
Familiarity with Project Area
and Accessibility of Firm's Office



Familiarity with Project Area

In going back through our archives, the first project we did in Independence was a concrete tower structural analysis in 1987. Other projects we have provided engineering services for in Independence include the following:

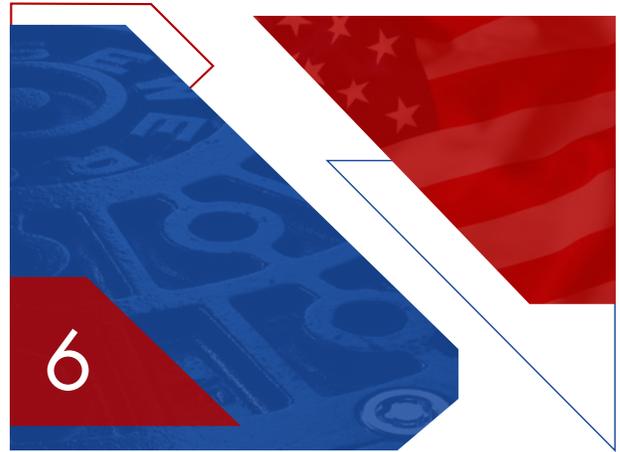
- 2018 Water Treatment Plant Improvements
- Water Tower Rehabilitation and Modifications
- Water Treatment Facility Water Distribution Study Computer Model
- Independence Airport Water Study
- Sewer Line Rehabilitation
- Wastewater Treatment Plant (2.0 MGD) Lagoon Sludge Removal and Disposal Study and Design
- Pump Station Study and Design
- USD 446 Bus Barn Site Civil
- City Recreation Center
- City Library HVAC Retrofit
- City Memorial Hall AV Upgrades
- Textron Aviation
 - Training Center at Independence Community College
 - Light Plane Assembly and Paint Facility
 - Mustang Hangar Expansion
 - Assembly Shipping Addition
 - Corvalis Repair
 - Assembly Tempering Phase 1
 - Assembly Building Addition and Chiller Plant
 - Assembly Conference Room Remodel
 - Delivery Entrance and Office Remodel
 - Flight Canopy Door
 - Underground Water Reservoir and Waterlines Wet Lands Mitigation
 - Industrial Electrical Wiring Mezzanine Air Conditioning
- Mercy Hospital Renovations and Demolition
- Labette Health Rural Health Clinic/Emergency Department
- Independence Community College New Student Residence Hall
- Dillons Store
- Pizza Hut
- New Dentist Office



Accessibility of Firm's Office

Independence is less than two hours away from our Wichita office, and little more than an hour from our Pittsburg office. With this close proximity, regular review sessions with the City staff and site visits will be easily accommodated. This distance allows PEC to provide the City with timely and efficient response to your project questions. We commit our resources including staff, equipment, and facilities to you and the successful completion of this project.





SECTION SIX
Ability to Deliver Project
On Time and Within Budget



Ability to Complete Projects On Time and Within Budget

We meet our clients' expectations for quality projects on time and within budget. Schedule and cost control requires constant attention. At PEC, this begins by establishing clear roles and responsibilities set in a realistic time frame. Our detailed schedules of events, milestones, and activities are distributed to each team member. The schedule identifies our deadlines and who will meet them. Having time and tasks charted and available at our finger tips assists us in managing and tracking individual activities. ***PEC commits our resources to complete your projects within your time frames.*** We have more than 340 employees that provide a full-range of consulting engineering services that can be added to our project team if needed. **Our team members are ready to begin immediately.**

We keep our clients apprised of costs throughout the design process. We prepare construction cost estimate updates at strategic milestones, which offer increased knowledge of project quantities, materials, and construction complexity. ***We understand the importance of being good stewards of City funds,*** and we will work within the time and budget available for each project. We invite you to ask our client references about how we cost effectively and conscientiously service their communities.



YOU DREAM IT, WE'LL DESIGN IT



303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

PROFESSIONAL ENGINEERING CONSULTANTS PA
— a family of professionals that exists
to energize communities, shape the future
and guide the way.



EDA GRANT FOR WHISKEY CREEK DRAINAGE IMPROVEMENTS (SYCAMORE STREET & 20TH STREET)

INDEPENDENCE, KANSAS

JUNE 18, 2020





EXPERIENCE | Transportation

TranSystems

115 S. Sixth Street, Suite B

Independence, KS 67301

Tel 620 331 3999

www.transystems.com

June 18, 2020

Ms. Kelley Passauer, CPM
Acting City Manager/Zoning Administrator
City of Independence, KS

RE: EDA GRANT FOR WHISKEY CREEK DRAINAGE IMPROVEMENTS (SYCAMORE STREET & 20TH STREET)

Dear Ms. Passauer and Selection Committee,

- TranSystems Corporation is very excited for the opportunity to provide the City of Independence engineering services for improvements to Whiskey Creek. We have recently prepared a Hydraulic and Hydrologic study of Whiskey Creek, and have had an office in Independence for over 20 years. We believe that our firm offers the following distinct advantages:
- **TECHNICAL EXPERTISE WITH LOCAL PRESENCE – Aaron Moore, PE** in our Kansas City office will serve as the technical lead for this project. Aaron has served as project manager on stormwater projects throughout Kansas. Aaron has access to over 50 design professionals in our Kansas City office available to assist with this project. The staff from our office in Independence will assist in integrating the technical expertise of our Kansas City office with Independence. Our local staff is led by **Shawn Turner, PE**, who has over 27 years of experience in working with municipalities. Shawn will serve as a 'Principal in Charge' to assist Independence with integrating our staff with City staff. As we continually work with cities the size of Independence, **we understand the City Commission members are often integrally involved in projects, and public perception of projects is therefore extremely important.** We often attend City Commission meetings to discuss projects, as well as attend project specific meetings in which elected officials are involved.
- **BALANCING FUNCTIONALITY WITH COST –** We have a significant amount of experience with stormwater infrastructure throughout the State, including Southeast Kansas. We have significant experience with all types of federal funding, including the Economic Development Administration. We are excited by the opportunity for the City to obtain an EDA grant for a long term problem, and will put substantial effort into the City's attempt to secure this funding.
- **LEVERAGING LOCAL DOLLARS –** Not only are we eager for the City to receive a federal EDA grant, **we also believe that engaging our firm will provide the greatest local benefit to the City.** Many of the local and federal dollars spent on design and inspection services will stay in Independence and Southeast Kansas.

It would be our pleasure to work with the City of Independence again and we look forward to discussing this project with you further. Please feel free to contact me at (816) 329-8600 (sdtturner@transystems.com) with any questions or to schedule a meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn D. Turner".

Shawn D. Turner, PE
Principal-in-Charge & Contract Manager

CAPABILITIES OF THE FIRM

FIRM PROFILE

Founded in 1966, TranSystems is a multifaceted, national transportation-focused firm that provides 50+ years of consulting, engineering, architectural, and construction expertise to enhance the overall transportation experience. *Headquartered in Kansas City, our nearly 800 professionals in more than 30 offices throughout the U.S. perform a broad range of services to all sectors of the transportation marketplace.*

TranSystems realizes that cities, counties, and other local entities can have special and unique requirements and funding challenges. *We specialize in tailoring our expertise to provide personalized service offerings to suit your specific needs while exceeding your expectations. No other transportation company masters the smallest details, and envisions the big picture, better than TranSystems. Our ability to identify and execute solutions across strategic, design, technical, and operational issues is unmatched. When it comes to moving people and products from here to there, safely and securely, we do it best.*

TRANSYSTEMS BY THE NUMBERS

TranSystems is nationally recognized by several top industry organizations for our innovative consulting, engineering, and architectural solutions. According to Engineering News-Record, and as an indicator of our success and dedication to the transportation industry, TranSystems is:

#9

ENR Kansas
Top Design Firm

#15

ENR Midwest
Top Design Firm

468

NATIONAL AND LOCAL
AWARDS WON

SERVICES TO MUNICIPAL AND COUNTY CLIENTS:

- Construction Inspection and Administration
- Civil and Structural Engineering
- Flood Plain Analysis
- Feasibility Studies
- Street and Alley Design
- Hydrology / Hydraulics Analyses
- Right-of-Way Acquisitions, Appraisals, and Easements
- Bicycle and Pedestrian Facilities
- Topographic Surveying
- ADA Compliance
- Traffic Analysis and Engineering
- Utility Infrastructure Design
- Signalization and Optimization
- Roadway Layout and Design
- Intelligent Transportation Systems
- Environmental Permitting and Documentation
- Grading and Drainage Analysis
- Sidewalk Layout and Design
- Utility Coordination and Relocation
- Bridge Design and Structural Analysis
- Quiet Zones

SPANNING THE INDUSTRY WITH A LOCAL FOCUS

TranSystems provides innovative infrastructure solutions, and our local, technical depth is matched by our consulting expertise. *We have a vested interest in cities and counties and other local entities because we live here, too. With past projects ranging from high-volume freeways to trails in our own neighborhoods and communities, we have the experience and personnel to deliver solutions that solve your challenges. Our experience crosses the entire spectrum of transportation-related systems and gives us the ability to tailor our proven approach to your individual project. The big picture - your big picture - is important to us.*

DRAINAGE SERVICES

- Storm Drainage Design
- Floodplain Analysis
- Low Water Crossing Removal Studies
- Hydrology/ Hydraulics Analysis and Modeling
- GIS
- Water Quality Studies
- BMP
- Stormwater Detention/ Retention
- Cost and Budget Estimates
- Program and Project Management

PROJECT UNDERSTANDING

The Independence Whiskey Creek area has recently experienced several significant flooding events that have magnified the need for stormwater improvements in certain areas. Several 100-year events impacting the entire Verdigris River basin have occurred, and significant rainfall events have also recently occurred in the Independence Whiskey Creek basin. TranSystems previously completed a hydrologic and hydraulic (H&H) study of the Whiskey Creek basin for the City. The objective of the study was to identify potential improvement projects along the basin, to quantify those projects in cost, and to assist in gauging the benefits of each project.

Since the H&H study has been complete, the City has utilized it as a guide to investigating funding opportunities to target state or federal grants to leverage City dollars. One such potential grant has been identified for improvements near 20th and Sycamore. This area is the site of an undersized vitrified clay storm sewer that intercepts stormwater near Sycamore Street and directs it to the Union Pacific Railroad Right of Way approximately 800 feet downstream.



Several businesses currently reside in this area, and the TranSystems H&H study has determined that improving this stretch of the Whiskey Creek system will result in water surface elevation reduction of over one foot.

An EDA Flood Mitigation grant has been identified that could potentially fund a good portion of the project costs. This EDA grant requires a Preliminary Engineering Report (PER) that will lay the basis of design for the proposed improvements and potential benefits to the adjacent businesses.

The required PER is a natural extension of the H&H study that our firm initially completed. As it is a natural extension of our previous services, we can, therefore, complete the PER quickly and efficiently, which results in dollar savings to the City. With these factors in mind, we have developed a unique project approach which is summarized in the following sections:



TASK 1 | PREPARE A PRELIMINARY ENGINEERING REPORT

For this task, the TranSystems team will prepare a PER that meets the requirements of the Economic Development Administration (EDA) for the grant application. We will work closely with the City and the Southeast Kansas Regional Planning Commission to ensure that the PER meets all funding requirements. We have worked with the SEKRPC routinely, and have a long history of success in preparing PER's for various grant applications. We will rely heavily on previously completed H&H study, as all technical data has already been prepared. The PER will basically consist of us taking this previously prepared data, and adding it to other information the EDA will want to examine the grant application. Once the City receives the EDA grant, the project will move into the Design Phase.



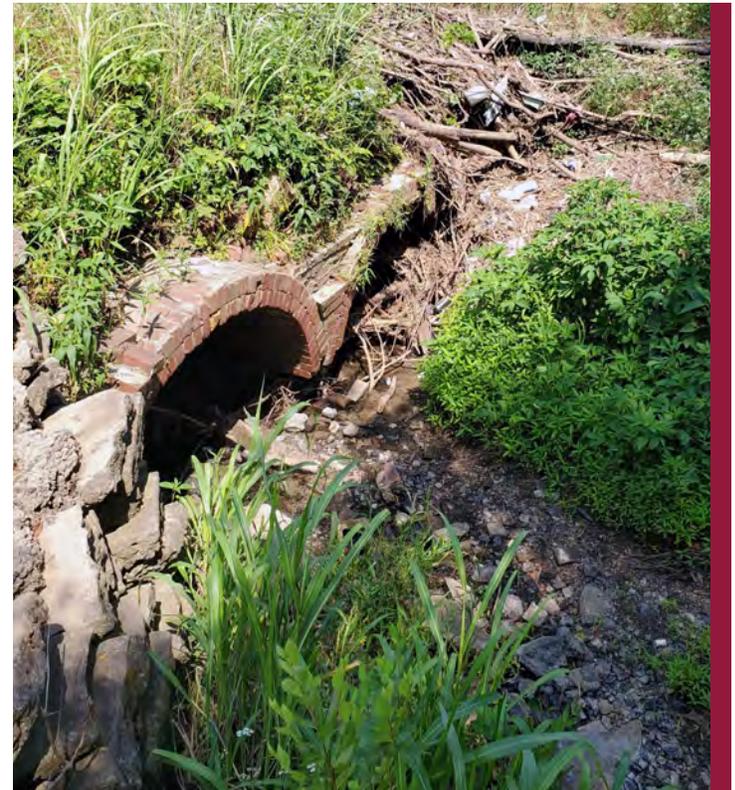
TASK 2 | DESIGN PHASE

This task will begin with a review of the EDA requirements for the project. We are very familiar with the project area and know that the right-of-way and easements will be required to construct the project. In addition, significant utility coordination and possibly relocations will be required.

We have completed EDA funded projects before, and know what they expect in plans, specifications, and contract documents. We are also very familiar with City procedures and protocols. We will assist City Staff in informing the elected officials of the specifics of the project, as well as providing information for Public Involvement, either via site meetings or virtually.



and subsistence costs. Our staff has inspected projects with literally every type of funding, including KDOT, KDHE, ARRA, TIGER, CDBG, and EDA.



TASK 3 | BIDDING AND AWARD

Following approval of the plans, specifications, and contract documents, the project will be advertised for bid. We routinely assist the City in doing this and know what is expected. With this type of project, we know the multiple area contractors that will have an interest. We anticipate that a Pre Bid Conference and Pre Construction conference will be held, either at City Hall or at TranSystems local office. Following the Pre Bid Conference, the project will move into the Construction Phase.



TASK 4 | CONSTRUCTION PHASE ENGINEERING SERVICES

Our local office has inspected literally dozens of projects for the City. These include water, wastewater, stormwater, and streets. Our staff is familiar with City requirements, and our local presence will save the City funds to travel

SCHEDULE

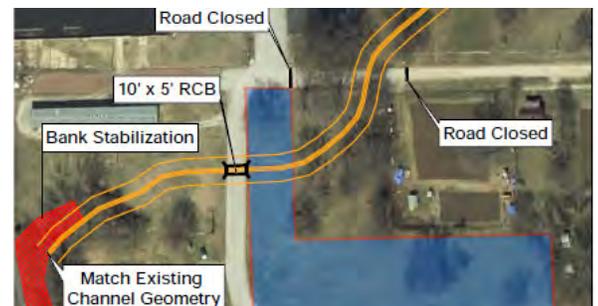
We understand that leveraging City dollars with federal funds to improve Whiskey Creek is of high importance to the City of Independence. TranSystems will work efficiently to complete in tasks outlined above in a time frame that meets the City's needs.

EXPERIENCE WITH SIMILAR PROJECTS

Whiskey Creek H&H Study, Independence, KS

Whiskey Creek has a long history of flooding issues, with several houses frequently flooded. TranSystems recently completed an H&H study for the area that examined possible improvements from near Oak Street to near Cherry Street. The study examined both long term improvements to meet the 100-year frequency and lesser improvements that would decrease water surface elevations and flooding frequency.

Additionally, the study examined and compared the benefits of detention basins and channel improvements, and developed cost estimates for improvements. The study identified one area that would benefit greatly, near Sycamore and 20th Street, which is served by an undersized vitrified clay pipe storm sewer, and undersized masonry arch structures crossing the roadways.



Client
City of Independence,
KS
Completion Date
2019

Client Contact
Kelly Passauer
Interim City Manager
620.330.0615

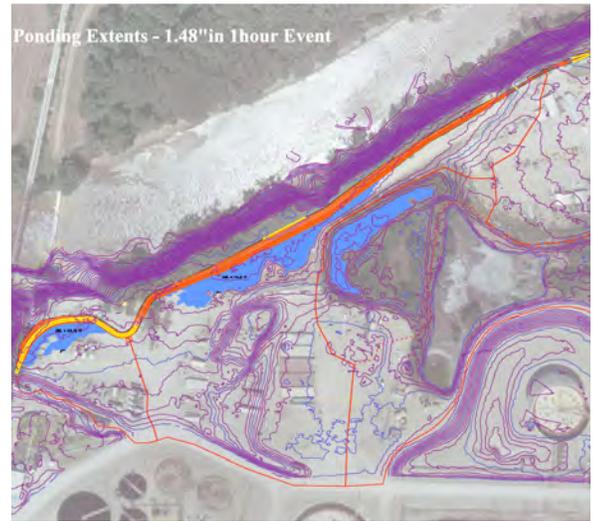
Stormwater Management - CVR Refinery, Coffeyville, Kansas

The CVR Refinery in Coffeyville, Kansas was required to complete a Supplemental Environmental Project (SEP) by the USEPA as part of a Complaint and Consent Agreement/Final Order (CAFO). TranSystems was selected by CVR to complete the planning, design, and construction inspection for the project.

Preliminary design selection identified a raised earthen berm and vegetated buffer strip to be constructed along the northern end of the facility adjacent to the Verdigris River between North Sunflower Street and the Railroad Bridge. The berm, and the adjoining grass buffer strip, were designed to implement sheet flow minimization to reduce total suspended solids (TSS) exiting the facility.

Design criteria include temporarily detaining a 1.48 inch/hour rainfall event, which equates to the 90th Percentile rainfall event for Montgomery County. Design criteria indicate that the detention and grass strip will result in an approximate 50 % reduction in TSS. Hydraulic and hydrologic modeling was performed by TranSystems to ensure temporary detention of the design storm was occurring, and to gauge the improvements on the northern end of the facility.

The Project was constructed within the regulatory FEMA floodplain for the adjacent Verdigris River. TranSystems conducted hydraulic modeling of the Verdigris River to ensure that the project did not adversely impact water surface elevations for the river. Due to the project being located within the FEMA defined floodplain, a permit was obtained from the Kansas Department of Agriculture Division of Water Resources and the Montgomery County Floodplain administrator.



Client
CVR Refinery

Completion Date
March, 2020

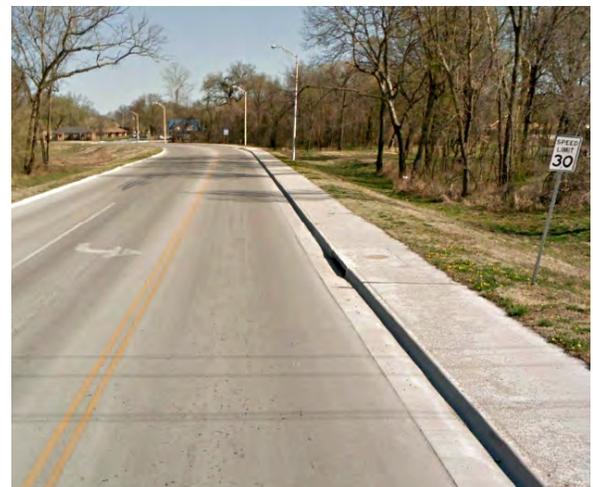
Client Contact
Dave Bracken
Project Manager
(620) 688-0781

Sycamore Creek Improvements, Coffeyville, Kansas

TranSystems has completed engineering services for multiple phases of improvements to Sycamore Creek in Coffeyville, Kansas.

US-166 BOX CULVERT: Frequent flooding along Sycamore Creek in Coffeyville led to the City contracting with TranSystems to conduct an H&H study to identify alternatives for improvements. TranSystems identified that the addition of a 12'x12' box culvert parallel to the Sycamore Creek bridge on US-166 (11th Street) would significantly reduce resulting water surface elevations. TranSystems provided design and inspection services for the new box culvert, and provided the necessary documentation and permitting for the City to obtain a LOMR (letter of map revision) with FEMA to reduce the 100-year flood plain elevation along the Sycamore Creek area.

CLINE ROAD IMPROVEMENTS: TranSystems provided H&H analysis, design, and construction inspection for multiple phases of stormwater improvements along Cline Road to improve the drainage on the adjacent Sycamore Creek. These improvements include relocating and regrading Sycamore Creek in conjunction with an extension of Cline Road to US-166.



Client
City of Coffeyville, KS

Completion Date
2019

Client Contact
Chuck Shively
Director of Public Works
620.252.8192

Joplin Stormwater System Improvements, Joplin, MO

TranSystems has completed various stormwater projects for the City of Joplin, Missouri. These include:

CDBG DR: Analysis of the various municipal stormwater system issues in the Recovery Zone serving the area devastated in 2011 by an F5 tornado. TranSystems conducted hydrologic and hydraulic modeling of various locations and developed an alternative for improvement. The improvements were implemented via the use of CDBG-Disaster Recovery funds. Many of the improvements were along the 20th Street corridor, for which TranSystems provided design and construction engineering and inspection services.

EUCLID STREET: TranSystems provided H&H analysis, design, and construction inspection for stormwater improvements along Euclid Street (Old US-66) in Joplin, Missouri. Improvements include the addition of storm sewers, drop inlets, and channel improvements. The project includes innovative solutions due to easement and right of way restrictions.

ZORA INTERCHANGE: TranSystems provided design services for the Zora and Main Interchange. Project tasks included spanning Main Street, the KCS Railroad, and the main drainage channel. Approximately 2,500 linear feet of drainage channel was improved to City, MoDOT, and KCS standards.



Client
City of Joplin, MO

Completion Date
(Anticipated) July 2020

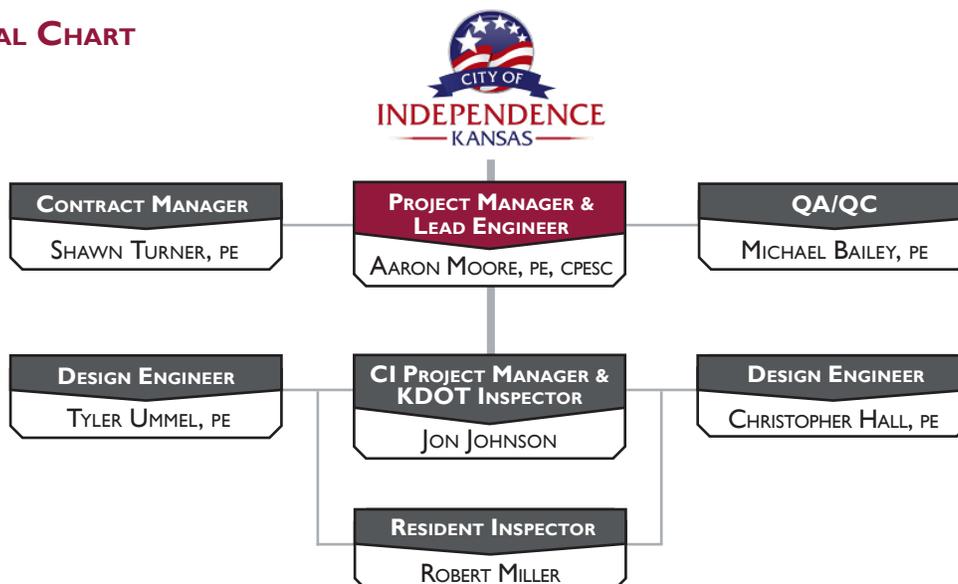
Client Contact
Dan Johnson
Project Engineer
417.624.0820

ADDITIONAL RELEVANT PROJECT EXPERIENCE

- KDOT Bridge Program-Scour Analysis, *Statewide*
- EDA Grant, Sewer Inspection, Project Administration, Waterline Inspection & Design, *Great Bend, KS*
- US-77 over Timber Creek, *Winfield and Anderson Counties, KS*
- Missouri River Hydraulic Analysis, *Midwest*

QUALIFIED PERSONNEL & WORK HISTORY

ORGANIZATIONAL CHART



AARON MOORE, PE, CPESC

PROJECT MANAGER & LEAD ENGINEER

Aaron specializes in hydrologic and hydraulic engineering design and leads TranSystems' local water resources team. His training includes geographic information systems (GIS) and his experience as a civil engineer includes hydraulic modeling, stormwater planning and design, hydraulic structures design, BMP location studies, and water quality studies. Aaron is also a Certified Professional in Erosion and Sediment Control (CPESC) and has experience in preparing National Pollutant Discharge Elimination System (NPDES) documents such as erosion control plans and stormwater pollution prevention plans.

SELECTED EXPERIENCE

Whiskey Creek H&H Study, Independence, KS

TranSystems recently completed an H&H study for the area that examined possible improvements from near Oak Street to near Cherry Street. The study examined both long term improvements to meet the 100-year frequency and lesser improvements that would decrease water surface elevations and flooding frequency. Additionally, the study examined and compared the benefits of detention basins and channel improvements and developed cost estimates for improvements.

5th Street and 3-Mile Creek, Leavenworth, KS

TranSystems provided engineering design and construction inspection services to the City of Leavenworth to address severe erosion issues where 5th Street crosses 3-Mile Creek. Aaron served as project manager and lead designer to provide a solution that included new storm sewer infrastructure to accommodate runoff associated with 5th Street. In addition an energy dissipation structure was designed to prevent the new outfall pipes discharging into 3-Mile Creek from causing erosion issues in the channel and at the 5th Street bridge abutment. The final design also incorporated repairing an existing stretch of segmented block wall that accommodates the pedestrian trail passing through the project location.

Stump Park Streambank Stabilization, Shawnee, KS

TranSystems developed a streambank stabilization plan for the tributary to Mill Creek stream near Stump Park on Woodland Drive in Shawnee, Kansas. Due to the instability in Mill Creek, the tributary began degrading vertically and migrating laterally, forcing the City to relocate a segment of a pedestrian trail and bridge. Aaron served as both project manager and lead designer to provide a solution that protects the city's infrastructure and meets regulatory floodplain development criteria. The project included survey, design, permitting, bidding, and construction services.

Woodland Valley Subdivision, Derby, KS

The Woodland Valley Subdivision of Derby, Kansas, experienced frequent flooding along Wild Turkey Drive. During even small storm events, the open channel conveying runoff regularly overtopped the roadway flooding multiple yards and houses in the area. Aaron led the design of an improved channel section, roadside ditch, and diversion swale to improve the flooding frequency for the neighborhood. The previous roadside ditch included multiple existing driveway culverts that were silted in and did not operate at full capacity, exacerbating the flooding. TranSystems and the City met with the residents to gain firsthand knowledge of flooding issues and discuss potential solutions. Since construction, TranSystems design has proven to mitigate flooding and increase the level of service in the neighborhood. A future Phase is planned to increase level of service even further during major storm events includes a combination of diverting stormwater upstream around the neighborhood.



EDUCATION

MS, BS, Civil Engineering,
University of Missouri-
Kansas City

CERTIFICATIONS/ AFFILIATIONS

Professional Engineer: KS,
MO, IA, and GA

Certified Professional in
Erosion and Sediment
Control

OSHA 10 Construction
Safety

YEARS OF EXPERIENCE

13

YEARS WITH FIRM

10

CHRISTOPHER HALL

RESIDENT DESIGN ENGINEER

Christopher joined TranSystems in 1996, bringing several years of experience in Computer Aided Drafting and Design layout. Prior to employment with TranSystems, he worked for six years as project manager at ASIMA Corporation designing feed mills for Central and South American companies. His responsibilities included complete plant concept and design, beginning with preliminary layout to plant start-up.

SELECTED EXPERIENCE

Eisenhower Subdivision, Independence, KS

Completed the drafting and layout of the Spruce street extension which included four cul-de-sacs, storm water detention, sanitary sewer, and preliminary water line layouts.

Sanitary Sewer Improvement, Independence, KS

Lead CAD technician for a project to replace a portion of the sanitary sewer system in Independence, Kansas, in order to reduce the amount of infiltration and inflow into the system.

KDOT Project 75-63 K 7721-01, Independence, KS

Acted as lead CAD technician and provided survey assistance for this Geometric Improvement project on Chestnut Street between 8th Street and 9th Street in the city of Independence. The project consists of the widening and realignment of the existing roadway to provide a better tie in with the previously completed project at the intersection of Penn Avenue and Chestnut Street.

KDOT 75-63 K 5883-01, Independence, KS

CADD Technician for this geometric improvement project, extending from the intersection of US-75 and Main Street to US 75 and Laurel Street in Independence. Responsible for drafting of the intersection of US-75 and three side entrances. Details included cross sections and plan and profile sheets.

North Trunk Sewer, Independence, KS

CADD Technician responsible for drafting of sanitary sewer plan and profile sheets and calculating quantities.

Downtown Improvements and Streetscape, Independence, KS

CADD Technician responsible for drafting of water line plan sheets for water line relocation and service connections.

Bluestem P.U.D. Subdivision, Independence, KS

CADD Technician responsible for drafting roads, water detention, sanitary sewer, water lines, and grading for the subdivision. Details included cross-sections, valley gutters, water detention, and plan/profile sheets.



EDUCATION

AAS, Computer Aided Design Specialists, Independence Community College

CERTIFICATIONS/ AFFILIATIONS

ACI Concrete Field Inspection

ACI Concrete Strengths Testing Technician

Asphalt Pavement Inspection

Basic Inspection

OSHA 10 Construction Safety

YEARS OF EXPERIENCE

30

YEARS WITH FIRM

24



SHAWN TURNER, PE | PRINCIPAL-IN-CHARGE & CONTRACT MANAGER | EXPERIENCE: 31 YEARS

Shawn has a great deal of experience managing and designing non-typical projects with a variety of state and federal funding, including: TIGER, Kansas DOT, Oklahoma DOT, MoDOT, Kansas Department of Health and Education, Oklahoma Department of Environmental Quality, ARRA, EPA, HUD and Economic Development Administration. Shawn specializes in assisting small municipalities with larger projects, utilizing his experience to guide city staff through projects. Shawn regularly serves his clients as though he is an extension to their staff, ensuring projects stay on a successful track toward completion. Shawn's dedication to his clients consistently has a positive impact on the project team.



MICHAEL BAILEY, PE | QA/QC | EXPERIENCE: 17 YEARS

Michael is the design team leader in the Wichita office. His background is a project manager and project engineer with a wide range of transportation related projects; including significant involvement with KDOT's "On-Call" and LPA Program/Contract Management, city improvements, project management, and design engineering assignments. He has been responsible for major modification and replacement of bridges, highways, roadways, guardrails, asphalt overlay, curb and gutter, ADA sidewalk design, drainage design, utility relocation, construction documents, and cost estimates.



TYLER UMMEL, PE | DESIGN ENGINEER | EXPERIENCE: 8 YEARS

Tyler is an engineer in TranSystems' Wichita office. Following graduation, he worked as a KDOT field engineer. Currently, he is a design engineer on various projects for clients that include local municipalities and the Kansas Department of Transportation (KDOT). Tyler's expertise lies in roadway design, traffic engineering, drainage design, curb and gutter, storm sewer design, construction phasing and sequencing, ADA improvements, and waterline and sanitary sewer design.



JON JOHNSON | CI PROJECT MANAGER & KDOT INSPECTOR | EXPERIENCE: 31 YEARS

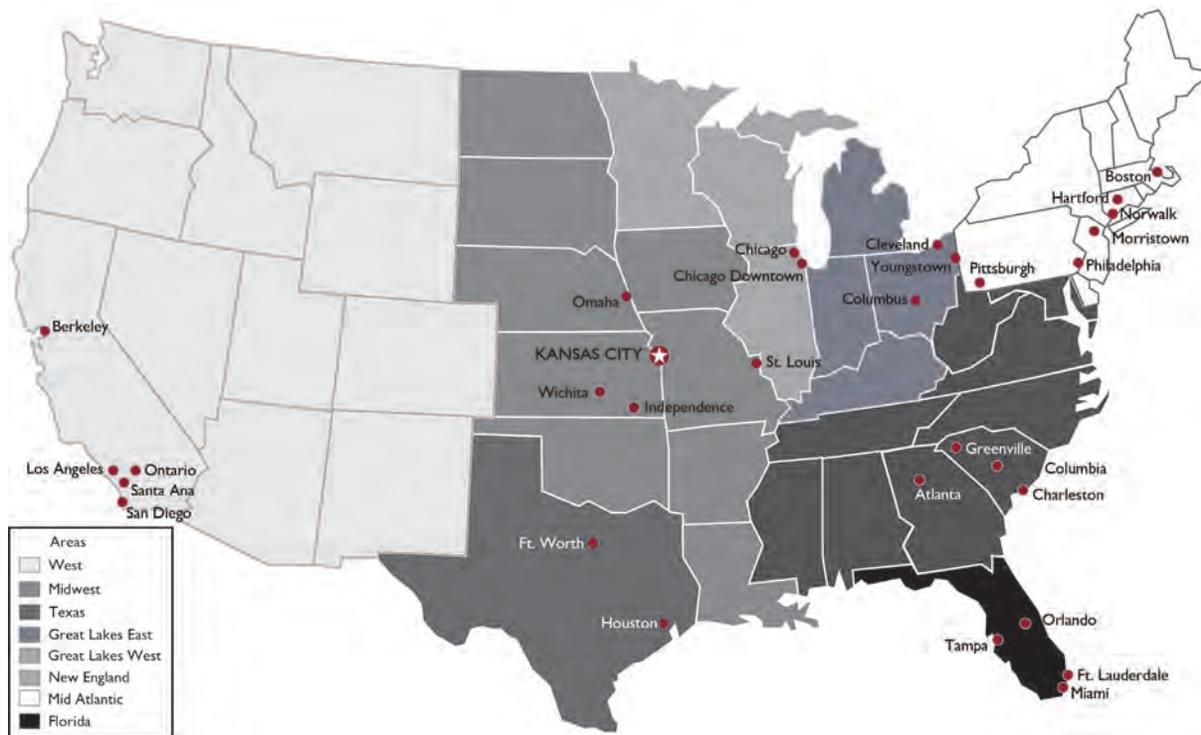
Jon joined TranSystems Corporation in 1996, bringing his years of experience in the field of construction inspection with a number of certifications. Along with these and various other DOT's, he is a valued project manager in the TranSystems' Independence office. He has performed materials testing, inspection, surveying, and completed documentation on a wide variety of transportation projects. He has also provided assistance on metric projects.



ROBERT MILLER | RESIDENT INSPECTOR | EXPERIENCE: 40 YEARS

Robert joined TranSystems in 2018 after a 17 year career as an inspector with the Kansas Department of Transportation. During his career with KDOT, Robert worked as an inspector on numerous projects for KDOT throughout District 4, including many in Montgomery County. Robert also has a great deal of experience in other areas of Public Works as prior to working for KDOT, Robert worked as a licensed water treatment plant operator for the City of Independence. In addition, Robert currently serves on the board for two water districts. Robert brings the unique experience of both working directly for State and Local government as well as working for a consultant.

OFFICE LOCATIONS



TranSystems is comprised of **800** professionals in more than **30** offices. Our project team comprised of **Shawn Turner, Aaron Moore, Michael Bailey, Tyler Ummel, Christopher Hall, Jon Johnson, and Robert Miller** comes from our southeast Kansas offices. With majority of the team working out of the Independence office, we can be at the project site in less than 15 minutes.

REFERENCES



DARRIN PETROWSKY
 Kansas Department of Transportation
 Area Engineer
 620.365.2116
 Darrin.Petrowksy@ks.gov



CHUCK SHIVELY
 City of Coffeyville, KS
 Director of Public Works
 620.252.6007
 cshively@coffeyville.com



DARRELL MOYER
 City of Parsons, KS
 Director of Engineering
 620.820.3996
 dmoyer@parsonskansas.gov



CAMERON ALDEN
 City of Pittsburg, KS
 Director of Public Works
 620.2305515
 cameron.alden@pittks.org

Certification by Prospective Participants as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments

Shawn Turner, Principal



President, Chairman, or Authorized Official

being duly sworn (or under penalty of perjury under the laws of the United States), certifies that, except as noted below, _____

Agency or Company

or any person associated therewith in the capacity of TranSystems Corporation

Owner, partner, director, officer, principal investigator, project director, manager, auditor, or any other position involving the administration of federal funds.

is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years; does not have proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against (it) by a court of competent jurisdiction in any manner involving fraud or official misconduct within the past three years;

Exceptions _____

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder or respondent responsibility. For any exceptions noted, indicate below to whom it applies, initiating agency, and dates of action.

Providing false information may result in criminal prosecution or administrative sanctions.



SHAWNA NICOLE JONASON
My Commission Expires
June 5, 2021
Jackson County
Commission #17605538



Sworn to before me, a Notary Public in and for the City of Independence, State of Kansas this 17 day of June 2020

Notary Public

My Commission expires June 5, 2021