

Proposal for **Engineering Services**

for the Sanitary Sewer Collection System

RFP NUMBER: 2022-038

LAMP RYNEARSON



LampRynearson.com 9001 State Line Rd., Ste 200, Kansas City, MO 64114

816.361.0440





Financial Management and Administration

REQUEST FOR PROPOSAL FOR

ENGINEERING SERVICES FOR THE SANITARY SEWER COLLECTION SYSTEM

RFP NUMBER: 2022-038

ISSUE DATE: <u>July 15, 2022</u> OPEN DATE & TIME: <u>August 12, 2022 at 2:00 PM, CST</u>

Purchasing Administrator: Lisa Robbins

Contact Information: Lisa.Robbins@jocogov.org_or (913) 715-0590



L A M P R Y N E A R S O N

August 12, 2022

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Lisa Robbins | Purchasing Administrator Department of Financial Management and Administration Purchasing Division Johnson County Administration Building 111 South Cherry Street, Suite 2400 Olathe, KS 66061-3486

RE: RFP NUMBER 2022-038 Engineering Services for the Sanitary Sewer and Collection System

Dear Ms. Robbins and Evaluation Committee,

Providing an exceptional level of wastewater services to over 500,000 residents through a collection system with over 2,235 miles of sewer mains is no small feat. Communities in Johnson County continue to set an example in providing a quality environment to call home and raise a family, Overland Park being voted among the "Best Places to Live" in the country by Money Magazine in 2021. With infrastructure booming in Lenexa, Shawnee, and Overland Park, and many other neighboring cities in Johnson County, growth will continue and the demand on your wastewater system will increase. At Johnson County Wastewater, you have proven yourselves as leaders in the wastewater industry, excelling at your mission statement to protect the environment, serve your customers, and enhance your community. Lamp Rynearson's Purpose Statement *Leaving a Legacy of Enduring Improvements to our Communities*, guides our actions every day, on every project. We will work in partnership with JCW Project Managers to provide services that result in enduring improvements, in support of JCW's Mission and consistent with your Vision.

We have assembled a diverse team for your projects that has extensive experience with the types of projects described in the RFP. Our firm has over 170 employees able to support the needs of your sanitary sewer collection system. Lamp Rynearson Project Managers have repeatedly delivered successful projects with the services specified in your RFP. The following aspects of our team give us an edge in providing efficient engineering services:

"Laura Gray sets the high bar. I use her as a measuring stick for other consultants"

 Nicki Chestnut, KCMO Smart Sewer Program Manager, Town Fork Creek & Northeast Area and Gooseneck Creek

Existing Infrastructure Rehabilitation, Repair, and Improvements Projects: Our office regularly supports communities through on-call rehabilitation, repair and improvement projects. We know how to work with Program Managers from similar size organizations through our sanitary sewer rehabilitation work with the KCMO Smart Sewer Program. We encourage you to contact our reference, Nicki Chestnut with KCMO's Smart Sewer Program Management team, to learn more about our ability to deliver complex projects for large communities. You can trust our decision-making for system improvements will lead to timely, quality and cost-effective rehabilitation.



- New Development Gravity Sewer Projects: Led by Wastewater Group Lead, Laura Gray, our team has experience in planning, designing and overseeing new development gravity sewer projects from 8 inch through 108 inches in diameter. We have designed new sewers through all conditions and using traditional open-cut and trenchless technologies.
- Low Pressure Sewer (LPS) Projects: Our wastewater group has previous experience in bringing users onto existing sewer systems through the provision of Low Pressure Sewer (LPS) Projects. We have designed improvements for the City of Camden Point, MO as well as sewer improvement districts (SIDs) in the state of Nebraska. We know from our experience that the design of these systems requires a special design skill set, but typically also includes frequent communication with homeowners to explain the impact this project will have on the operation of their sewage collection and the resulting sewer bill.
- On-Call Plan Review: Our civil design team is readily available to assist with plan review and have developed a system with our on-call city engineering clients that maximizes communication and quality control. Civil Design Group Leader, Dan Miller PE, has over 35 years of experience guiding municipalities through these processes including KDHE permitting for sanitary sewer collection system projects.



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On-Call Inspection: Lamp Rynearson construction inspectors have served on all types of municipal projects and are familiar with document management systems such as eBuilder and Aconex for recording daily and weekly work, quantity tracking, and communication with our owners. The need for detailed records of the work is understood, including recording of materials, equipment, labor, weather, and other activities that happen throughout each day.

Let us serve as a trusted partner for your sanitary sewer collection system improvements! Our team will not take this opportunity lightly and includes engineers and other specialists that cover the full range needed for JCW projects. Our local staff are available for on-call emergencies and have a proven track record of collaborated success. If you have questions or would like additional information, please contact us at 816.361.0440 or Laura.Gray@LampRynearson.com

Sincerely, LAMP RYNEARSON, INC.

Laura J. Gray, PE, ENV-SP Wastewater Group Leader

Jon C. Shellhorn, PE Senior Project Manager





Johnson County Wastewater (JCW)

Engineering Services for the Sanitary Sewer Collection System - RFP 2022-038

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C. Project Understanding and Approach

C. Project Understanding and Approach

Project Understanding



Johnson County Wastewater (JCW) is entering year three of their 25year Integrated Management Plan, or IMP, which prioritizes critical infrastructure

needs. This will allow the utility to make cost-effective environmental improvements while meeting the EPA regulatory requirements. Many of the projects on the IMP Schedule for the next five years will be delivered through the sanitary sewer oncall contracts. This includes the following major scope areas:

- Existing Infrastructure Sanitary Sewer Collection System Rehabilitation, Repair, and Improvements
- New Development Gravity Sewer
- Low Pressure Sewer (LPS)
- On-Call Plan Review
- On-Call Inspection

The responsibilities of **Lamp Rynearson** will include, but not be limited to, the design of gravity sewer and low-pressure sewers (LPS) that result from new developments. Existing sewer evaluations that are noted in the Collection System Asset Management Program (CAMP) that could include inspections of manholes, pipes and stream crossings and associated designs. These field services and designs will likely come from information noted within the CIP, but additional requests are likely and are classified as on-call services. Responsibilities from this category include inspection services, plan reviews, survey, Resident Project Representative (RPR) responsibilities and other tasks to further assist JCW staff.

Our team is committed to providing services in line with JCW's Mission, which is **"Protecting our environment, Serving our customers, and Enhancing our communities".** Like JCW, we care about providing our clients and neighbors with infrastructure improvements that elevate their quality of life, as is evident by our mission statement of **"Leaving a Legacy of Enduring Improvements to our Communities."** Our goal is to support JCW in its mission and vision of being a "world-class utility driven by empowered employees."

We understand that JCW has not previously contracted with Lamp Rynearson for an on-call contract, but we will outline our capabilities in the proposal allowing JCW to make an informed selection. We realize trusting an Engineer with your collection system is an important decision and we hope to build that trust through a range of potential opportunities for selection.



Project Team

The Lamp Rynearson Team is assembled to meet your objectives, provide a quality product for your sewer users, and meet schedule milestones of the Integrated Plan. Our depth of services outlined in the subsequent sections includes projects with project management, evaluation and data analysis, plan and specification production, bidding assistance and construction phase services.

Each project's Team will be assembled to meet the specific scope of services and to provide JCW with the best possible product. Below we highlight our firm and aspects of our approach proving that our Team is the right selection for a sanitary sewer collection system on-call engineering contract.

Our Team checks the boxes for JCW:

- $\overline{\checkmark}$ Experience in the five main project areas
- Experience working with a Program Manager for a
- large municipality
- Specialty Field Services

Management





Jon Shellhorn, PE

New Development Gravity Sewer and Low Pressure Sewer (LPS) Projects



Andrew Conard, PE, ENV-SP NASSCO PACP/MACP/LACP, ITCP MH and CIPP

Existing Infrastructure Sanitary Sewer Collection System Rehabilitation, Repair, and Improvement Projects



Dan Miller, PE

On-Call Plan Review and Managing Inspection Services

Each of these Project Managers will develop a team to meet JCWs objectives and ensure the full scope of the project is able to be properly addressed. This will include primarily internal staff, but we have trusted relationships with sub-consultants to further bolster our capabilities.

Quality Management Lead

Tony O'Malley, our KC Office Leader with over 40 years' experience, will be the overall quality lead for your projects. Tony has provided quality assurance and quality control for a wide range of projects throughout his career and will provide an exceptional level of review for JCW's projects. In addition to his reviews, our practice also includes peer reviews throughout the design process and prior to each project deliverable, providing a perspective outside the project team.

Partners

Our Team includes our partners presented on Form 2. Shockey Consulting, Ace Pipe Cleaning, and ADS all currently work for JCW. ADS and RJN have been included as subconsultants for firms with current on-call contracts, but have not been asked to support projects. We have worked with Packard Engineering and PKMR for decades on multiple wastewater projects.

RJN, is a national company known for exceptional SSES services including cutting edge group technology for forcemain evaluations, and will provide the identified field services for manhole inspections. with options for 3D scanning, smoke testing, private building sewer inspections, and stream crossing investigations. RJN was also on teams with current on-call contracts, but were not engaged for a project. With our team and RJN, who are exclusive with Lamp Rynearson, JCW will have more options for exceptional SSES field services. Our KC office has previously contracted with RJN to provide field service support and they have been responsive, professional, and exceeded our expectations.



Shockey Shockey Consulting will provide public relations support. They

are currently working for JCW which will provide consistent messaging for projects



NEER has experts in sewer modeling including Innovyze® InfoWorks, can provide GIS support (in additional to Lamp Rynearson staff), and they have

an advanced AI program which the City of Raytown, along with other communities, have used to prioritize assets for renewal before SSES work is completed.



Ace Pipe Cleaning (ACE)

will provide CCTV services. They also currently work

with JCW and is a regular partner on SSES projects. They also could support manhole inspections including 3D scanning capabilities, line lamping, and dyed water testing, providing extra depth for these services.



ADS will provide flow monitoring and evaluation services. They are currently under contract with JCW working with

Isaac Crabtree, Managing Engineer, Collections. ADS provided flow monitoring for JCW, and after JCW purchased equipment, they are providing on-call support along with data software evaluation. Although ADS has been on previous on-call teams, they have not worked on an on-call contract.

Packard Engineering is a structural engineering company and will provide structural design if required, previously providing design support to Lamp Rynearson on over 90 projects.

Parson Kent McKinley Raaf Engineers, LLC (PKMR) is a



mechanical, electrical, and plumbing consulting firm and will provide these services for JCW, previously providing design

support to Lamp Rynearson on over 45 projects.

Project Management and JCW Program Coordination

Laura and our three Project Managers have experience providing similar project management and administration scopes of services for other large utilities and communities. Monthly project status reporting, schedule updates, along with earned value tracking, are normal operating procedure for our managers. Coordinating with a Program Manager, as an extension of JCW, is also not new to our team. We have developed scopes and negotiated budgets with a Program Manager, followed standardized procedures and protocols for consistent program wide deliverables, and supported asset management updates to programs similar to JCW's Collection System Asset Management Program (CAMP).

Project Delivery

The Lamp Rynearson Team provides expertise in planning and design for existing infrastructure, new development, and LPS projects. Our engineers and partners are experts in the four phases of a typical project:

- Field services SSES and/or survey
- Study/predesign
- Design & bidding
- Construction engineering & observation

Jon and Andrew have experience collaborating with a Program Manager on large projects for Kansas City, Missouri.

We have proven methods to complete projects and understand the importance to complete them using defined JCW protocols resulting in consistent results. There is a range of potential projects with a variety of potential scopes and tasks which our team is able to provide. For all projects, our Lamp Rynearson's project delivery will include:

- Project Management Plan for consistent project delivery.
- Kick off meeting with JCW to clarify goals, procedures, schedules, and deliverables.
- Project team kick-off meeting to review the Project Management Plan, identify potential risk factors and issues based on previous lessons learned, assign tasks, and clarify scope/schedule/budget.
- Issues list is updated and items assigned and addressed throughout the project.
- PMs will communicate unforeseen conditions or issues with JCW as soon as they are identified, providing details about the risks, along with support for JCW decisions to keep projects moving forward.

Please review Form 5, for many of Lamp Rynearson's and our teams specialized capabilities that are available, if needed, for specific projects.

Existing Infrastructure

Our Team, led by Andrew Conard, has the experience in existing infrastructure projects necessary to complete the work that may fall under this project area. Our engineers know how to evaluate field data, analyze flow and rainfall data for I/I



reduction, and complete risk based evaluations for prioritization of assets. Most of our engineers are NASSCO certified, allowing us to understand CCTV and manhole inspection data. To minimize change orders, our process includes a desk top evaluation using available aerial maps to identify areas of possible construction conflicts followed by field checks of those areas. We understand JCW's typical process for rehabilitation projects is to provide a rehabilitation schedule for contractors to use with AIMS mapping. With our streamlined processes for plan production using ArcGIS Pro and Bluebeam, our engineers have significantly reduced the time necessary to produce plan sheets. The plan production process was demonstrated to JCW in our virtual meet & greet on April 14, 2022. You can revisit the presentation online at <u>https://prezi.com/view/</u> P2lu2JtGmnTvXLEfEswp/

For a bid project, JCW may consider including plan production in the scope. Showing the rehabilitation or replacement on plan views allows for construction conflicts notes to be included.



2021 Sanitary Sewer Rehabilitation, Raytown, MO

Our team is experienced with coordinating with public utilities, private utilities, US Army Corps of Engineers, railroads, KDOT and other entities that may be affected by the project.

New Development Gravity Sewers and LPS

Jon Shellhorn will manage new development projects and will be supported by staff selected for the scope of the project. His experience with new gravity sewer layouts, design, and construction has included trenchless and traditional methods for construction. He has managed projects ranging in size from 6-inches through large relief sewers in a 6-ft by 6-ft triple concrete box. The team we have assembled has worked with Program Managers through our work in Kansas City, Missouri and Omaha, Nebraska which each were involved in EPA communication through their respective consent decrees.

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We have assembled an experienced team in all facets of new development sewers, low-pressure systems and pump station design. We have project engineers experienced with modeling, conceptual designs and the preparation of deliverable documents. Our survey department can provide topographic survey, GPS data collection, survey grade manhole rim elevations, and construction staking for the project. Our Survey Practice Lead, Kellan Gregory, has extensive experience surveying in Johnson County for many municipalities. Our team also includes a landscape architect group, lead by Regan Pence, to make sure any construction that occurs in the community is restored to a condition better than when we started. Our wetlands specialist, Sam Howland, is a resource for any design or construction that occurs in wooded areas or for stream crossings

The construction phase services personnel are experienced in public and private observation and have experience producing reports and communicating to their respective Project Manager and Client. We have provided observation for gravity sewer installations, tunneling and directional drilling operations, forcemain installations and pump station designs.

Field Services

Our team includes ACE for CCTV, ADS for flow monitoring and evaluation, and RJN for the remaining field inspection services. ACE is also able to provide manhole inspections, line lamping, and smoke testing, which provides extra depth to our team if necessary to meet project schedule. ACE and ADS both are currently working in support of JCW. RJN is ready to support JCW and continue working with Lamp Rynearson on projects.

Forcemain Evaluations

Forcemains are critical sanitary sewer system assets and seldom have redundancy for backup in the event of failure. Understanding forcemain



in the event of failure. Understanding forcemain conditions and assessing associated risks is important to maintaining a healthy system. There are many specialty tools available to evaluate the condition of a forcemain internally or externally, but selecting the right method or technology will control costs and ensure results are actionable.

RJN was initially asked to be on our team for their experience in forcemain inspections. At WEF Collections Specialty Conference in March 2022 and KWEA/AWWA joint conference in August 2021, RJN presented on cost effective forcemain inspections and different methods used for the inspections. Adding their national experience as an option to support JCW's Forcemain Asset Management program will increase the experience and options available to JCW.

RJN forcemain assessments begin with a desktop screening and a risk assessment using historical data reviews and staff interviews to achieve a customized investigation plan. This type of assessment may involve:

- Evaluating previous failures and areas at risk for a repeat failure
- Analyzing prior condition assessment findings and reviewing pipe configurations
- Assessing access sites for inspection equipment insertion or excavation sites (external)
- Pressure monitoring
- Soil and groundwater testing
- Lift station pump drawdown testing
- · Identifying locations at-risk for corrosion



Where practical and cost-effective, forcemain evaluation planning will direct and focus inspections to potential trouble spots such as high points, air relief valves, discharge manholes, fittings, etc. The assessment plan will outline the method of investigation, i.e., external or in-pipe, test locations, estimated costs, and investigation schedules. Any forcemains at or near the design life of 50 years are strong candidates for inspection.

Stream Crossings

Senior Project Manager, Amy Bunnell, PE, ENV-SP served as City of Kansas City, Missouri Project Manager on a myriad of stormwater engineering projects that included close coordination with sanitary sewer collection systems to address pipeline conflicts and ensure proper protection or rehabilitation of sanitary sewer lines during in-stream construction projects. Amy frequently coordinated with the U.S. Army Corps of Engineers as City ("Local Sponsor") Project Manager for multiple Section 14 – Emergency Streambank Protection projects intended to protect public infrastructure, including exposed sanitary sewer mains and manholes, from vertical and lateral stream instability.

Amy was an integral member of a team responsible for performing site visits and desktop assessments of stream instability and scour at more than 20,000 off-system (city or county-owned) bridges. While not directly related to sanitary sewer collection system engineering, her work on this project allowed Amy to develop knowledge of fluvial geomorphology. As gravity sewers must occupy the same valleys as streams, potential lateral and vertical stream movement must be considered for resilient sanitary sewer system design, and Amy's specialized experience can assist in that aspect of design.



RJN brings field experience related to stream crossings from multiple projects. For WSSC Maryland, as part of a 10-year trunk walk inspection program, they provided manhole inspections, exposed pipe evaluation at stream crossings, in pipe screening using RJN's Rapid Inspection Technology (RIT), and dye testing for all exposed sewers.

Analysis to Construction

If data is provided by JCW, as noted in the example study or basis of design report scope of services, we have completed almost a million feet of sewer and manhole evaluation with data provided by the Program Manager for KCMO. We have experienced NASSCO certified engineers and observer and support additional staff seeking certifications to provide services to JCW.

Our team has completed I/I evaluations with scopes similar to the RFP. With NEER to support InfoWorks modeling, we have the full-service team to meet your needs. Laura is an expert in SSES evaluation and is a resource for our engineers. Andrew Conard has become our lateral expert, gaining experience and learning what actually works and what doesn't through \$32 million dollars of construction projects. Working closely with the best contractors in our area, Andrew has the experience needed to manage SSES projects for JCW. Our engineers have developed work flows that streamline evaluation, recommendations, cost evaluations, along with innovative and quick plan production, if desired by JCW, using ArcGIS and BlueBeam. We use desktop checks to quickly identify potential constructability issues using AIMS. Field checks for back yard easements, close to structures, utilities, streams bridges, etc. are key to identifying construction challenges to reduce change orders. Our team is ready to support JCW to meet your annually scheduled IMP CIP plan.



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D. Firm Profile (Form 1)

1. Firm (or joint venture) Name & Address Lamp Rynearson, Inc. 9001 Stateline Rd. Ste. 200	1c. Licensed to do business in the State of Kansas Yes	
Kansas City, MO 64114	1d. Name, Title & Telephone Number of Principal to Contact Laura Gray, Wastewater Group Leader, 816.361.0440	
1a. Firm is: National (X) Regional Local	1e. Address of office to perform work, if different from Item 1	
1b. Year Firm Established		

2. Please list the number of people that your firm/joint venture will commit to the County's project.

Number of employees in entire firm:

Administrative	12	Marketing	9
Architect	1	Planner	3
CADD Technician	12	Revit Technician	1
Construction Observer	22	Surveyor	39
Engineer	64	Wetland Specialist	2
ENVISION SP Certified	14		
GIS Specialist	2		
Landscape Architect	5		

Number of employees supporting sanitary sewer collection system projects:

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Administrative	3	Marketing	2
Architect	2	NASSCO PACP/MACP 4 Certified	4
CADD Technician	4		
Construction Observer	5	Surveyor 4	
Engineer	14	Resources will be assigned and allocated as needed to meet specific scope of services and deliver project	
ENVISION SP Certified	7		
GIS Specialist	1		
Marketing	2		

3. If submittal is by joint venture list participating firms and outline specific areas of responsibility (including administrative, technical, and financial) for each firm: N/A

3a. Has this joint venture previously worked together? $\ensuremath{\mathsf{N/A}}$











E. List of Outside Key Consultants/Associates Who Will Be Used for the County's Project (Form 2)

4. If respondent is not a joint venture, list outside key consultants/associates who shall be used for the County's project.

Name & Address	Specialty	Worked with prime before (Yes or No)
RJN Group, Inc. 10838 Old Mill Road Suite #A Omaha, NE 68154	Forcemain Inspection Services, SSES Field Services including Manhole Inspections and Smoke Testing. Stream Crossing inspections. Private building inspections	Yes, subconsultant to Lamp Rynearson on a water study project for the City of Carter Lake, Iowa providing GPS field locates, water valve and hydrant field assessments, and targeted leak detection inspections.
Shockey Consulting 7944 Santa Fe Dr Overland Park, KS 66204	Planning/Community Engagement	Yes, subconsultant to Lamp Rynearson on the KCMO Town Fork Creek Sanitary Sewer Rehabilitation and KCMO's Weatherby Lake & Upper Rush Lift Stations project.
NEER 3541 Jefferson Street Kansas City, MO 64111	InfoWorks, Artificial Intelligence, GIS	Yes, worked alongside Lamp Rynearson for the City of Raytown, Missouri on a wastewater inrastructure project.
Ace Pipe Cleaning 6601 Universal Avenue Kansas City, MO 64120	CCTV, Pipe Cleaning, Manhole Inspections	Yes, subconsultant to Lamp Rynearson on the 2021 Sanitary Sewer Rehabilitation project in Raytown, Missouri, Washington and Spring Street Improvements in Weston, Missouri, and Phase 2 Stormwater Improvements in Lee's Summit, Missouri.
ADS Environmental Services 3405 Hollenberg Dr. Bridgeton, MO 63044	Flow Monitoring and Rainfall and Flow Monitoring Data Analysis	No.
Packard Engineering 21021 Oak Drive Belton, MO, 64012	Structural Engineering	Yes, subconsultant to Lamp Rynearson on over 90 projects, many of them wastewater focused.
Pearson Kent McKinley Raaf Engineers, LLC (PKMR) 13300 West 98th Street Lenexa, Kansas 66215	Electrical/Mechanical Engineering	Yes, subconsultant to Lamp Rynearson providing electrical and mechanical design support on over 45 projects.



Project Team

F. Organization Chart for Project Team







a. Name and Title: Tony O'Malley, PE, ENV-SP | Office Leader

b. Email and Phone Number: Tony.OMalley@LampRynearson.com | 816.823.7282

c. Project Assignment: Quality Lead

f. Education: BS | 1981 | University of Missouri - Rolla | Civil Engineering

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 41/With other firms: 0 g. Active registration:1986, Professional Engineer2014, Envision Sustainability Professional

h. Other Experience and Qualifications relevant to the proposed project:

As the Office Leader, Tony takes a hands-on approach to making sure Clients receive a product of high quality and to their standards. His eye for detail and knowledge of quality assurance has led to his involvement in the evaluation, design, and construction administration for gravity collection systems, low-pressure systems, lift stations, storage facilities and existing sewer line evaluations. With a wide range of expertise in all aspects of wastewater products, Tony helps clients comply with ever-changing regulatory requirements. Tony has developed as a specialist in QA/QC review of a wide range of projects and will ensure the project meets Johnson County Wastewater standards.

- Townfork Creek Neighborhood Sewer Rehabilitation, Kansas City, MO
 - » Served as project principal and provided QA/QC on the evaluation of approximately 283,000 linear feet of CCTV, smoke and dyed water inspections, and 2,250 manhole inspections, to identify defects in the main sewers, service lateral connections, and manholes as well as construction inspection.
- Kearney West Interceptor Phase II, Kearney, MO
 - » Provided QA/QC on Phase II of the interceptor allowing decommissioning of two lift stations and a large area on the west side of the City to new development, including 8,840 feet of 8" through 24" PVC gravity interceptor sewer.
- Northeast Area and Gooseneck Creek and Town Fork Creek, Neighborhood Sewer Rehabilitation, Kansas City, MO
 - » Quality Lead for two rehabilitation projects in KCMO combined sewer area. Our team worked closely with the Program Manager, coordinating work of multiple subconsultants, and our wastewater engineers, to provide basis of design report that summarized evaluation and prioritization for improvements of over 750,000 feet of CCTV and 4500 manholes. Our team prepared three separate construction documents, and provided construction phase services including full time observation for about \$32 million dollars of construction.

Wastewater Treatment Plant Improvements and Booster Pump Station, Kearney, MO

» Provided QA/QC on multiple water and wastewater treatment services for the City of Kearney. The most recent wastewater services included design and construction phase services for a new influent pump station and headworks facility. Recent water treatment engineering services have included design and construction phase services for the west booster pump station and the ongoing study and design of a new water treatment plant ground storage tank and changes in the disinfection practices.

- Wastewater Facility Plan, Antidegradation Study, and WWTP and Pump Station Design, Louisburg, KS
 - » Served as project principal and provided QA/QC on the wastewater treatment plant and north lift station for the City of Louisburg. This included site evaluation, pump and forcemain design and coordination with other disciplines. Also provided construction phase services including the review of shop drawings, RFIs and a review of applicable change orders.
- Weatherby Lake Lift Stations, Kansas City, MO
 - » Served as project principal and provided QA/QC on the design for two submersible pump stations that were to be relocated and related piping, with the design incorporating features to allow the lift stations to better blend in with surrounding property features.
- 2021 Sanitary Sewer Rehabilitation, Raytown, MO
 - » Quality Lead for an existing infrastructure project which included evaluation of 30,000 feet of VCP and cast-iron sanitary sewers up to 80 years old, ranging in size from 8-inch to 15-inch diameter. CCTV data was reviewed that was collected by our teaming partner, Ace Pipe Cleaning, in PACP v7 format. Our in-house team coordinated to perform manhole inspections utilizing 360 camera and setup of the database for evaluation and visualization in GIS. Responsibilities included ranking and prioritization of assets for rehabilitation. Final asset selection based on cost-effectiveness, budget, risk and known problem areas.



- Quality assessment/quality control
- Multi-disciplinary project experience
- Director on the ACEC Missouri Board
- 41 years with Lamp Rynearson
- Experience managing and engineering projects for both large and small utilities



Laura Gray, PE, PACP, ENV-SP | Wastewater Group Leader

b. Email and Phone Number: Laura.Gray@LampRynearson.com | 816.823.7244

c. Project Assignment: Contract Manager; Principal in Charge

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 16/With other firms: 8

f. Education: BS | 1983 | Oklahoma State University | Civil Engineering MCE | 2006 | Kansas University | Civil Engineering

g. Active registration:
2002, Professional Engineer
2007, PACP, MACP, LACP
2015, Envision Sustainability Professional

h. Other Experience and Qualifications relevant to the proposed project:

With over 24 years' experience in wastewater infrastructure projects, Laura works with clients and leads our Wastewater Group to deliver projects that meet client's needs. Laura's career included service as the Chief Environmental Officer for US Forces-Afghanistan in 2011, where Laura provided leadership to a staff of over 40 as part of the Engineering Division in the Kabul Headquarters. Laura has also completed multiple large sewer rehabilitation projects as part of Federal Consent Decree for Kansas City, Missouri.

Laura has been PACP certified since 2007 and has lead teams for sewer rehabilitation and I/I projects for over 1 million feet of collection systems. Laura is an industry expert who is on the NASSCO Infrastructure Committee Version 8 Task Force updating the Pipeline Assessment Certification Program (PACP) Manual used for NASSCO certification training, assisted the work-group authoring text for NASSCO PACP videos (<u>https://nassco.org/resource/nasscos-pipeline-assessment-certification-program/</u>), along with providing articles for trade publications. She is active in additional professional organizations, as noted below.

• Inflow & Infiltration (I/I) Reduction, North of the River, Phase 1, Kansas City, MO

» As Principal-in-Charge/Contract Manager, Laura worked closely with the Program Manager and our team to deliver a scope of services that closely match this RFP. Laura directed our professionals and with assistance of the Project Manager, coordinated our team of five subs to evaluate over 260,000 feet of 8 to 36 inch sanitary sewer and 1200 manholes, perform I/I quantification and source balance to recommend cost effective I/I removal, and provided QA/QC of deliverables including the Basis of Design Report.

Northeast Area and Gooseneck Creek and Town Fork Creek, Neighborhood Sewer Rehabilitation, Kansas City, MO

» Contract Manager / Sr. Project Manager for two rehabilitation projects in KCMO combined sewer area. Laura worked closely with the Program Manager, coordinating work of multiple subconsultants, and our wastewater engineers, to provide basis of design report that summarized evaluation and prioritization for improvements of over 750,000 feet of CCTV and 4500 manholes. As Sr. Project Manager, her team prepared three separate construction documents, and provided construction phase services including full time observation for about \$32 million dollars of construction.

• 2021 Sanitary Sewer Rehabilitation, Raytown, MO

» As Contract Manager, Laura coordinated with the City and directed the sewer rehabilitation evaluation of 30,000 feet of 8 to 15-inch sanitary sewers and associated manholes. Lamp Rynearson performed manhole surveys using a 360-degree camera linked to GIS. Our team prepared construction documents in ArcGIS Pro and BlueBeam, delivering the construction documents significantly below budget based on AutoCAD plan production.

CDBG Sanitary Sewer Rehabilitation, Spring Hill, KS

- » Served as Group Leader for the review of gravity sewer following cleaning and CCTV of the identified CDBG area within Johnson County. This project included pipe bursting on several line segments. Other work included manhole replacement, open cut point repairs, and 2,200 linear feet of Cured-In-Place-Pipe (CIPP).
- Wastewater Facility Plan, Antidegradation Study, and WWTP and Pump Station Design, Louisburg, KS
 - » As Principal-in-Charge/Contract Manager, Laura coordinated with the City, provided QA/QC, and worked closely with Kansas Department of Health & Environment (KDHE) during the Antidegradation study and Wastewater Facility Planning phases. Laura assisted the City with applying for Kansas Water Pollution Control Revolving Fund (KWPCR) which resulted in significant principal forgiveness for the City. As Group Leader, Laura continued to provide team leadership, client coordination, QAQC, throughout design and construction phase services.

Low Pressure Sewer Collection System, Camden Point, MO

» Group Leader providing QA/QC for the design for the addition of a new Low-Pressure Sewer (LPS) system consisting of the installation of over 200 grinder pump units for the community previously on individual septic tanks.



- Existing infrastructure rehabilitation, repair, and
- improvements projects
- New development gravity sewer projects
- Golden Manhole Society
- KWEA Select Society of Sanitary Sludge Shovelers (SSSSS)
- Water Environment Federation (WEF) Collection Systems Committee
- National Association of Sewer Service Companies (NASSCO) Infrastructure Committee



a. Name and Title: Jon Shellhorn, PE | Senior Project Manager

b. Email and Phone Number: Jon.Shellhorn@LampRynearson.com | 816.823.7324

c. Project Assignment: Project Manager - New Gravity

and Low Pressure Sewers; Pump Station Improvements

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 4/With other firms: 17 f. Education: BS | 2001 | University of Missouri | Civil Engineering

g. Active registration: 2005, Professional Engineer

h. Other Experience and Qualifications relevant to the proposed project:

Strong leadership and group management skills are what Jon brings to the table as a senior project manager. With 21 years of experience in the wastewater engineering industry, Jon's has a depth of expertise including collection system design, modeling and facility planning along with pump/lift station design, overflow storage design and low-pressure system design. Clients trust him to lead these critical projects because he is proactive about understanding their key issues and desired outcomes. The result are high quality project designs and plans that everyone can be proud of.

Jon is an industry leader, serving in the Kansas and Missouri Section of the Water Environment Association (WEA) as well as the American Water Works Association (AWWA).

· Hardesty Ave. Relief Sewer, Kansas City, MO

» Project Manager responsible the design of a new parallel relief sewer for the City of Kansas City, MO and study of the existing sewer infrastructure. The new design consisted of a 3,000 feet pipeline with sizes ranging from 36-inch to 48-inches. Design included connection to an existing combined sewer box structure and addition of a structure to allow for grit removal. Existing sewer review consisted of manhole inspections, CCTV review and the development of improvement recommendations based on the findings. Overall project responsibilities consisted of initial study preparation, coordination with field services, pre-design and design work. The project will also involve construction phase services upon completion.

Low Pressure Sewer Collection System, Camden Point, MO

» Project Manager responsible for the design for the addition of a new Low-Pressure Sewer (LPS) system consisting of the installation of over 200 grinder pump units for the community previously on individual septic tanks. Project responsibilities included the design of the system, preparation of plans and specifications and coordination with federal and state agencies to acquire adequate funding for implementation. Responsibilities will include construction phase services upon successful project award.

• B503, B592, and B495 Lift Stations and Collection System, Offutt Air Force Base, Omaha, Nebraska

» Wastewater Project Manager responsible for the design of two new lift stations outfitted with variable speed drives as part of the base's infrastructure overhaul project. Designed a retrofit solution for lift Station B495 that included flood protection measures to allow for operation during a 500year flood event. Project included the design of 3600 feet of 10-inch gravity sewer and 1000 feet of 6-inch forcemain. Responsibilities included the oversight for both of these designs as well as the preparation of a design memorandum, design and construction phase services.

- Nicholas Street Sewer Extension Phases I III, Omaha, NE
 - » Project Engineer for the evaluation of solutions to reduce flooding of the combined sanitary and storm sewer in downtown Omaha, Nebraska. Project responsibilities included preparation of a design memorandum outlining options for the City and the preparation of cost opinions for the purpose of capital improvement planning. Provided pump station, forcemain and wetwell calculations and conceptual layouts to the City for consideration.

Wastewater Facility Plan, Antidegradation Study, and WWTP and Pump Station Design, Louisburg, KS

» Project Manager providing design for a new triplex 650-gpm pumps with variable frequency drives on each motor. Designed the approach for using existing lagoons as extraneous flow basis. Provided the design and approach for a stream crossing, installation through a congested cemetery and directional drilling across a state highway.



- New development gravity sewer projects
- Low pressure sewer projects
- Pump station and overflow storage facilities
- National AWWA Water Equation Committee member
- Kansas AWWA Committee Chair



Andrew Conard, PE, PACP, ENV-SP | Project Manager

b. Email and Phone Number: Andrew.Conard@LampRynearson.com | 816.823.7282

c. Project Assignment: Project Manager -Existing Infrastructure

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 8/With other firms: 7

f. Education: BS | 2006 | University of Kansas | Civil Engineering

g. Active registration:
2015, Professional Engineer
2015, PACP/LACP & MACP
ITCP certified for Cured-in-Place Pipe and Manhole Rehab

h. Other Experience and Qualifications relevant to the proposed project:

Andrew Conard has 15 years of experience as an engineer and project manager in the planning, modelling, design, and construction of large existing infrastructure and new development projects. In 2021 he completed an existing infrastructure rehabilitation project which had a construction cost of over \$18 million and included over 2,700 repairs. He also recently completed the evaluation and design for an I/I reduction project which has a projected construction cost of over \$12 million. His innovative approach and experience with data management has led to increased efficiency on evaluation of field data, plan production, asset management, and tracking repair data for updating asset management database. He is proficient in MS Excel, ArcGIS Pro, ArcGIS Collector, Bluebeam, Survey123, MS Access, MS Project, AutoCAD Civil 3D, and Hydraflow.

• Inflow & Infiltration (I/I) Reduction, North of the River, Phase 1, Kansas City, MO

» Led team to perform I/I analysis with review of data from 8 flow meters and 4 rain gauges and determine the level of service at various storm recurrence intervals for each of the metered areas. Andrew also managed the review of field inspection data which included 1,200 manholes, 260,000 feet of CCTV, smoke and dyed water testing. He prepared a preliminary design report summarizing data evaluation and ranking of assets by projected 5-year I/I removal cost effectiveness and came up with creative solutions to relieve a chronic water in basement area by designing a relief sewer that rerouted peak flows away from houses built on lower elevations.

Northeast Area and Gooseneck Creek Neighborhood Sewer Rehabilitation, Kansas City, MO

» Served as Project Engineer and provided collection system risk analysis, review of over 400,000 linear feet of CCTV inspection, smoke testing, dyed water testing and manhole inspection data. Assets were ranked based on consequence of failure and likelihood of failure. Reviewed and ranked assets, and prepared plans for rehabilitation, finishing underbudget to save the client 15% on the design phase. Green infrastructure sites were identified based on their potential to separate stormwater from the combined sewer system. He provided construction phase engineering services for two concurrent \$9M construction projects.

2021 Sanitary Sewer Rehabilitation, Raytown, MO

» Project Manager for an existing infrastructure project which included evaluation of 30,000 feet of VCP and cast-iron sanitary sewers up to 80 years old, ranging in size from 8-inch to 15-inch diameter. Reviewed CCTV data that was collected by our teaming partner, Ace Pipe Cleaning, in PACP v7 format. Coordinated an in-house team to perform manhole inspections utilizing 360 camera and setup of the database for evaluation and visualization in GIS. Responsibilities included ranking and prioritization of assets for rehabilitation. Final asset selection based on cost-effectiveness, budget, risk and known problem areas. Served as the primary liaison between the City and contractor throughout the construction period, tracking repairs, schedules, budgets, and quality. Implemented a new plan production procedure utilizing ArcGIS Pro saving client significant budget allowing construction to come in under budget.

Town Fork Creek Neighborhood Sewer Rehabilitation, Kansas City, MO

» Lead Project Engineer that performed collection system risk analysis including review of over 300,000 feet of combined sewer CCTV, smoke testing and dyed water testing data. He also provided engineering services during the \$9M construction project.

CDBG Sanitary Sewer Rehabilitation, Spring Hill, KS

» Provided project management for review of gravity sewer following cleaning and CCTV of the identified CDBG area within Johnson County. Responsible for the analysis and recommendation of several line segments. Pipe bursting was able to minimize the cost and time for this installation due to the location being through a major thoroughfare and improvements to improve defective taps and previous poor installation. Other work included manhole replacement, open cut point repairs, and 2,200 linear feet of Cured-In-Place-Pipe (CIPP).



- New development planning and design
- Evaluation of existing sewer for rehabilitation and repair
 - Collection system modeling and I/I analysis
- Provides pro-bono engineering services for Aqua Africa (a global non-profit)
- Active member of MWEA Collections Committee



a. Name and Title: Dan Miller, PE | Civil Design Group Leader

b. Email and Phone Number: Dan.Miller@LampRynearson.com | 816.823.7228

c. Project Assignment: On-Call Plan Services -Project Manager f. Education: BS | 1983 | Kansas State University | Civil Engineering MS | 1993 | University of Kansas | Water Resources Engineering

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 7/With other firms: 31 g. Active registration: 1988, Professional Engineer

h. Other Experience and Qualifications relevant to the proposed project:

Civil Design Group Leader, Dan Miller, PE, has been planning, budgeting, and executing Capital Improvement Projects for over 35 years. As the former City Engineer for Overland Park, Kansas, Dan has designed and managed on-call contracts and construction projects like JCW's potential projects. Dan has relevant technical expertise in plan reviews, sanitary improvements, stormwater management, and facility projects, and, as City Engineer, has been responsible for maintenance and updates of development and construction standards. Projects for JCW will move quickly with our expertise in municipal infrastructure.

On-Call City Engineer for Roeland Park and Spring Hill, KS, Grain Valley, Lake Lotawana, Excelsior Springs, and Raytown, MO

» Pulling from his experience as City Engineer for Overland Park, KS, Dan designs and manages on-call contracts for multiple communities across the Kansas City metro including those listed above. Dan has conducted both public and private development plan reviews, stormwater management, and facility projects, and updated development and construction design and specification standards in an on-call capacity.

On-Call Services – Spring Hill, Kansas

- » CDBG Sanitary Sewer Rehabilitation, Spring Hill, KS
 - As part of an on-call City Engineering contract, Dan initiated the CDBG Sanitary Sewer Rehabilitation project in Spring Hill. This project included 3,800 linear feet of cleaning, CCTV, 35 manhole inspections, and construction observation. Dan helped coordinate this project with the Johnson County CDBG program including project manual documents, review and approval for bidding. The final projecst included two pipe burst sewer segments, 2 new manholes, 8 open cut point repairs, and 2,200 linear feet of CIPP.
- » Spring Hill City Engineering Construction Observation, Spring Hill, KS
 - As part of an on-call City Engineering contract, Dan provided project management for construction observation on a sanitary sewer rehabilitation as well as multiple street, sidewalk, and stormwater projects. For the 2021 CARS – Webster Street UBAS project, the focus was street maintenance on Spring Hill's Webster Street that runs north and south through the heart of town.
- » 2021 CARS Webster Street, Spring Hill, KS
 - As part of an on-call City Engineering contract, Dan

provided project management for the design, survey, and construction observation services for the 2021 CARS – Webster Street Improvements project, which included concrete replacement, longitudinal joint repairs, pedestrian improvements for ADA compliance, macrotexturing and placement of Ultrathin Bonded Asphalt Surface (UBAS) and new pavement markings.

On-Call Services – Lake Lotawana, Missouri

- » Lake Lotawana City Engineering Construction Observation, Lake Lotawana, MO
 - As part of an on-call City Engineering contract, Dan provided project management for construction observation on multiple wastewater, stormwater, sidewalk, and street projects. Wastewater projects included improvements to the wastewater treatment plant and Woodlawn Estates pump station and sanitary improvements.

On-Call Services – Raytown, Missouri

- » Raytown 2022 NSRP and Sanitary Sewer Rehabilitation, Raytown, MO
 - As part of an on-call City Engineering contract, Dan provided project management for the pre-design phase of a 2022 NSRP in the Oak Creek Farms area, gaining insight of the conditions of the neighborhood streets as well as the storm drainage and sanitary sewers. Dan's support on acquiring funding for this project has the potential of generating \$2 Million in bonds gained per year for the Neighborhood Street Reconstruction program.



- On-call engineering services
- On-call plan review
- Public and private development
- Certified Public Manager
 - Professional Affiliations Recipient of the "Engineer of the Year" Award: Eastern Chapter of the Kansas Society of Professional Engineers (1999)



Greg Kendall, PE, ENV-SP | Senior Project Manager

b. Email and Phone Number: Greg.Kendall@LampRynearson.com | 816.823.7230

c. Project Assignment: New Development Sewers, LPS Fechnical Assistance

and Pump Stations; On-Call Technical Assistance

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 32/With other firms: 0

f. Education: BS | 2006 | University of Kansas | Civil Engineering

g. Active registration:2005, Professional Engineer2019, Envision Sustainability Professional

h. Other Experience and Qualifications relevant to the proposed project:

Greg joined Lamp Rynearson in 1989 and has worked in a lot of roles within the company, but is currently a Senior Project Manager within the Wastewater group. Greg's expertise in dealing with challenging collection systems has lead to tunneling designs, directional drilling applications along with public communication to relay our approach. Greg's expertise lies in the design wastewater treatment facilities, wastewater collection, sewer modeling, and pumping stations. He understands the intricacies of equipment selection and layout of mechanical and electrical components making him an ideal contact for any emergency on-call questions from JCW staff.

• B503, B592, and B495 Lift Stations and Water Lines, Offutt Air Force Base, Omaha, Nebraska

» Project Engineer responsible for the design of lift station B592 and associated forcemain. Provided design calculations for the new wetwell and pump station and coordination with the electrical and water utilities. Provided the base with a design that placed the structure outside of the 500-year floodplain while also providing a standby generator to allow for operation in all conditions.

Kearney West Interceptor Phase II, Kearney, MO

- » Project Manager on Phase II of the interceptor sewer which allowed two existing lift stations to be decommissioned and opened new space for potential development opportunities. Responsibilities included design oversite for 8,840 feet of 8-inch through 24-inch PVC gravity interceptor sewer and provided construction phase services for the City which included reviews of submittals and responses to requests for information (RFI).
- Wastewater Facility Plan, Antidegradation Study, and WWTP and Pump Station Design, Louisburg, KS
 - » Provided design services for a new biological nutrient removal wastewater treatment facility that replaced two existing aerated lagoon treatment systems. A new pump station was installed at one lagoon that pumped flow from that facility to the new treatment facility, which was located at the second lagoon site. Portions of both lagoons were retained in service for peak flow and sludge storage.

- Wastewater Treatment Plant Improvements and Booster Pump Station (On-Call Services), Kearney, MO
 - » Provided design and construction engineering services for multiple water and wastewater treatment services for the City of Kearney. Work was in conjunction with our current on-call contract with the City. Responsibilities include plan review, design on water and wastewater projects, construction phase services and other assistance as needed. The most recent wastewater services included design and construction phase services for a new influent pump station and headworks facility

Weatherby Lake Lift Stations, Kansas City, MO

» Provided project management and design for two submersible pump stations that were to be relocated and related forcemain and gravity sewer piping. Provided a design that incorporated features of the surrounding community to provide and aesthetic pleasing structure for the City and community. Responsibilities included performing a project memorandum and design. Construction phase services will be provided at the time of successful bidding.

- Existing infrastructure rehabilitation, repair, and improvements projects
- Wastewater treatment plant design
- New development gravity sewer projects
- Low pressure sewer projects
- Active American Waterworks Association member
- On-call engineering services



a. Name and Title: Mike McIntosh, PE, CFM | Design Group Leader

b. Email and Phone Number: Mike.McIntosh@LampRynearson.com | 402.496.2498

c. Project Assignment: Project Engineer - New Development Sewers

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 22/With other firms: 2 f. Education: BS | 1997 | University of Nebraska – Lincoln | Biological Systems Engineering

g. Active registration:
2003, Professional Engineer
2007, Certified Floodplain Manager (CFM)

h. Other Experience and Qualifications relevant to the proposed project:

An emphasis on sanitary sewers, water resources and infrastructure design highlight Design Group Leader Mike McIntosh's 24 years of design experience. He has been a project manager for some of the firm's larger and more challenging projects, including the Capitol District Redevelopment, City of Omaha's Webster Street and Nicholas Street Storm Sewer Extensions, Riverfront Place, the CHI Health Center, Shadow Lake Dam Design, and the Atlas Development.

An Outstanding Service Award winner with the American Society of Civil Engineers (ASCE) Nebraska Section, Mike is also a past 40 Under 40 winner with the Midlands Business Journal and completed Leadership Omaha, Class 31. Mike's role with the JCW projects will involve design assistance with large interceptor projects, sanitary sewer extensions and sanitary modeling.

- Nicholas Street Sewer Extension Phases I III, Omaha, NE
 - » Provided project management of sanitary sewer modeling, watershed drainage analysis and stormwater modeling. Responsibilities included preliminary, final design and construction administration for large storm and sanitary sewer separation on multiple phases of the Nicholas Street Sewer Extension project.
- Webster Street Sewer Extension Phases I II, Omaha, NE
 - » Provided project management of watershed drainage analysis, sanitary and stormwater modeling, final design, and construction administration for large storm and sanitary sewer separation on multiple phases of the Webster Street Sewer Extension project.
- City of Carter Lake Sewer Collection System Improvements, Carter Lake, IA
 - » Project management of design and construction administration services for the repair of sanitary sewer lines in Carter Lake, Iowa. This project area consisted of many geographic challenges as the sanitary sewer line crossed beneath railroad tracks that serviced a steel manufacturer. Numerous existing utilities in the area posed a challenge to accessing the failed pipe and required significant coordination to accommodate.
- City of Omaha Combined Sewer Overflow (CSO)
 Project Management Team
 - » Serves as Combined Sewer Overflow (CSO) utility coordinator for City of Omaha, Nebraska. Mike provides communication and coordination assistance between design professionals for all CSO projects.

Offutt Air Force Base - STRATCOM Headquarters Feasibility Study, Bellevue, NE

- » Provided project management of preliminary site design layouts, alternative analysis, storm and sanitary sewer analysis, and civil engineering.
- 16th and Grace Sewer Reconstruction, Omaha, NE
 - » Project management in response to the emergency failure of a combined sewer located at 16th & Grace Streets. Repair of the sewer required digging a trench over 35 feet deep to replace the sewer, as well as conducing by-pass pumping for the current flows. A section of the sewer was replaced with 120 feet of reinforced concrete pipe and back-filled, as well as repaving the intersection. Mike ensured property and the public were protected throughout these emergency services.
- Eppley and Millard Airports Sanitary Lift Station Replacement, Omaha, NE
 - » Provided site analysis of existing lift stations. Performed sizing, final design and construction administration for replacement of two existing lift stations.

Veterans Administration Medical Center Storm Sewer Study, Des Moines, IA

» Provided site analysis, drainage study and stormwater modeling for storm sewer system. Prepared recommendations for improvements and additional capacity to system and drainage channels.



- American Council of Engineering Companies (ACEC) Board Member and OEP Committee
 American Public Works Association (APWA)
 - American Public Works Association (APWA) Nebraska Floodplain and Stormwater Managers
 - Association (NeFSMA) Board Member
 - Association of State Flood Plain Managers Member



Scott Oswald, PE, CFM, ENV-SP | Senior Project Engineer

b. Email and Phone Number: Scott.Oswald@LampRynearson.com | 402.885.6532

c. Project Assignment: Project Engineer -New Development Sewers

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 15/With other firms: 6 f. Education: BS | 1996 | University of Nebraska – Lincoln | Civil Engineering g. Active registration:

2006, Professional Engineer 2013, Envision Sustainability Professional (ENV-SP) 2012, Certified Floodplain Manager (CFM)

h. Other Experience and Qualifications relevant to the proposed project:

Scott Oswald, a senior project engineer and certified floodplain manager for Lamp Rynearson, has over 20 years of engineering experience. Scott has experience in coordination with city engineers and natural resource district personnel, hydrologic and hydraulic analysis, storm and sanitary sewer design, stormwater detention and water quality, water mains, paving layout and design, site grading, sustainability, cost estimation and plan production for municipalities and private clients.

Nicholas Street Sewer Extension Phases I – III, Omaha, NE

- » Served as Senior Project Engineer for watershed drainage analysis, sanitary and stormwater modeling and sizing, sewer and paving design and permitting on a large storm and sanitary sewer separation for multiple phases of the Nicholas Street Sewer Extension project as part of the Combined Sewer Overflow program for the City of Omaha
- North Downtown Sewer Separation, Omaha, NE
 - » Served as Senior Project Engineer for a storm and sanitary sewer separation project in North Downtown Omaha within the new Makerhood District. Project involved sewer and paving design as well as permitting.
- City of Carter Lake Sewer Collection System Improvements, Carter Lake, IA
 - » Served as Senior Project Engineer on the repair of sanitary sewer lines in Carter Lake, Iowa. This project involved pre-design sewer cleaning, evaluation of televised sewer conditions, development of pipe lining and open cut repair plans and coordination of grant funding options for the City of Carter Lake, Iowa.
- Flanagan Lake West Interceptor Sewer, Omaha, NE
 - » Served as Senior Project Engineer on West Interceptor Sewer improvements to Flanagan Lake, a part of the Lakeview 168 neighborhood in Omaha, Nebraska. These improvements reduced I/I and benefited service for residents adjacent to the Flanagan Lake Trail and Lake.
- 16th and Grace Sewer Reconstruction, Omaha, NE
 - » Served as Senior Project Engineer in response to the emergency failure of a combined sewer located at 16th & Grace Streets. Repair of the sewer required digging a trench over 35 feet deep to replace the sewer, as well as conducing

by-pass pumping for the current flows. A section of the sewer was replaced with 120 feet of reinforced concrete pipe and back-filled, as well as repaying the intersection. Scott provided design for these sewer improvements.

- Webster Street Sewer Extension Phases I II, Omaha, NE
 - » Provided final design for large storm and sanitary sewer separation on multiple phases of the Webster Street Sewer Extension project.

Lamp Rynearson brings an **empathetic** and **compassionate** perspective to technical solutions.

– Amanda Brewer, CEO, Habitat for Humanity of Omaha

- Existing infrastructure rehabilitation, repair, and improvements projects
 - New development gravity sewer projects
- Low pressure sewer projects
- NEFSMA (Nebraska Floodplain and Stormwater Managers Association)
- The Association of State Floodplain Managers
- Member of Omaha Engineer's Club



a. Name and Title: Grant Zebold, PE, PACP | Project Engineer

b. Email and Phone Number: Grant.Zebold@LampRynearson.com | 816.823.7252

c. Project Assignment: Project Engineer - New and

Existing Sewer Design; Permitting

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 2/With other firms: 2 f. Education: BS | 2017 | University of Nebraska - Lincoln | Biological Systems Engineering

g. Active registration: 2022, Professional Engineer 2020, PACP, LACP

h. Other Experience and Qualifications relevant to the proposed project:

Grant Zebold is a Water and Wastewater Engineer at Lamp Rynearson. He comes with a degree in Bio-Systems Engineering and experience in permitting construction projects at Nebraska's Environmental Quality Department. Since joining Lamp Rynearson in March 2020, Grant has been able to combine his technical and analytical skills with his plethora of construction observation experience to provide the most efficient answers to complex design problems. Grant's role with the JCW contract will involve the review of existing sewers for potential improvements, new sewer designs and providing permitting assistance with the necessary regulatory agencies.

• Inflow & Infiltration (I/I) Reduction, North of the River, Phase 1, Kansas City, MO

» Performed flow monitoring data analysis on multiple basins and ranked them based on \$/gallon of I&I removed. Performed quantity checks and cost estimation for the \$11 million budget, conducted field checks of areas with poor data, analyzed CCTV of existing pipes using NASSCO PACP standards, and designed sewer reroutes for necessary project areas.

Northeast Area and Gooseneck Creek Combined Sewer Rehabilitation, Kansas City, MO

- » Reviewed over 400,000 linear feet of CCTV inspection footage, construction phase engineering services, rehabilitation recommendations, construction plans for two \$9 million construction projects, and updated record drawings.
- 2021 Sanitary Sewer Rehabilitation, Raytown, MO
 - » Reviewed CCTV footage of artificial intelligence (AI) mapped poor condition areas, performed manhole inspection and condition analysis, drafted plans in ArcGIS PRO, analyzed the sanitary sewer rehab design, created construction cost estimates, specifications, and reviewed submittals.

Wastewater Treatment Plant Improvements, Lake Lotawana, MO

- » Performed construction phase engineering services, specifications and submittal review, and simulated existing facilities and proposed improvements in Biowin modeling software.
- 7th and Colbern Pump Station Improvements, Lake Lotawana, MO
 - » Created pump station design calculations, construction plans, and specifications.

Anti-Degradation Study, Lake Lotawana, MO

- » Compared Alternate Designs for Anti-degradation options, drafted Anti-Degradations technical report, identified and analyzed pollutants of concern, performed watershed analysis, and simulated existing facilities and proposed improvements in Biowin modeling software.
- Burlington Junction Wastewater Lagoon Improvements, Burlington Junction, MO
 - » Lagoon design analysis, designed chlorine treatment option and chemical storage building, floodplain analysis of proposed improvements, design calculations, construction cost estimates.

"Your firm was so easy to work with and we are following the recommendations and utilizing the model every year!"

—Amy Foster, Business Service Manager, City of Gardner, KS



- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects
- Army Corps Wetland Delineation Certification



a. Name and Title: Anh Le, EIT, PACP | Project Engineer

b. Email and Phone Number: Anh.Le@LampRynearson.com | 816.823.7243

c. Project Assignment: Project Engineer - New and nd Modeling

Existing Sewer Design; GIS and Modeling

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 2/With other firms: 0

f. Education: BS | 2020 | University of Kansas | Civil Engineering

g. Active registration: 2020, Engineer in Training (EIT) 2020, PACP, LACP 2020, NASSCO certified

h. Other Experience and Qualifications relevant to the proposed project:

Anh Le is a Water and Wastewater Engineer at Lamp Rynearson. Working everywhere from Washington D.C. to San Francisco, Anh brings a wide variety of experience with him to the table. He utilizes his analytical and technical skills to solve problems whether it is designing new underground utility systems or pipe models. Anh is comfortable working on both large and small projects, previously integrating B.I.M. design into multimillion dollar infrastructure. Anh continuously integrates new technologies to improve design process and plan production. Anh's role with this JCW contract will involve assistance with new and existing sewer design as well as implementing new GIS design approaches to produce a quality project in a more efficient manner

• Hardesty Ave. Relief Sewer, Kansas City, MO

- » Designed approximately 3,000-feet of large diameter (36, 42 and 48-inch) sewer interceptor to relieve combined sewer overflow. Anh also Interpreted geotechnical studies to evaluate subterranean conditions and determined the best design alternative to minimize impact to several industrial properties and minimizing overall construction costs.
- 2021 Sanitary Sewer Rehabilitation, Raytown, MO
 - » Evaluated the existing sanitary sewer system and recommended cost-effective rehabilitations. Anh also coordinated with contractors to review the submittal, construction schedule, and change order and performed construction observation to ensure project specifications were met.

Inflow & Infiltration (I/I) Reduction, North of the River, Phase 1, Kansas City, MO

» Evaluated existing sanitary sewer system conditions and recommended cost- effective rehabilitations to reduce inflow and infiltration (I/I) in the sewer system. Defective assets were classified with NASSCO PACP and MACP modified Quick Ratings. KCMO Smart Sewer design protocols were implemented as well as correlated storm events to the system I&I. Anh quantified total I&I in the system and attributed I&I to the defects.

• B503, B592, and B495 Lift Stations and Water Lines, Offutt Air Force Base, Omaha, NE

» Designed three lift stations outfitted with variable speed drives as part of the base's infrastructure overhaul project. Optimized pump operations efficiency and ensured design met future flow demand from the base. Anh utilized pump system curves, hydraulic gradients and head loss analyses to deliver final design calculations and reviewed lift stations specifications and shop drawings.

• Wastewater Treatment Plant Improvements, Leeton, MO

» Improved existing wastewater treatment plant with new facility aeration and treatment process upgrades. Provided the design of a well structure to transfer flow from basin to treatment system. Performed hydraulic analysis to ensure flow can move through the treatment systems sufficiently.

"This is the **best, most complete set of drawings** I can remember."

– Chuck Ludlam, JE Dunn Site Superintendent

- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Innovative design process/plan production
- Active member of Society of Asian Scientists and Engineers (SASE)
- Active member of Kansas Water Environment Association (KWEA)



a. Name and Title: Amy Bunnell, PE, ENV-SP | Senior Project Manager

b. Email and Phone Number: Amy.Bunnell@LampRynearson.com | 816.823.7332

c. Project Assignment: On-Call Services - Plan Review Stream Crossings

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: <1/With other firms: 15

f. Education:

BS | 2007 | University of Missouri-Kansas City| Civil Engineering BS | 1998 | University of Louisiana-Lafayette | Biology

g. Active registration:2013, Professional Engineer2020, Envision Sustainability Professional

h. Other Experience and Qualifications relevant to the proposed project:

Amy brings over 15 years of experience providing a range of engineering services and project management for large utilities. Her experience as a Project Manager for the Kansas City Water Services Department sets her up with a strong foundation for the challenges that may come her way. Whether it's wastewater or stormwater, Amy knows how to get the project completed according to all standards, specifications, and regulations and coordinate the needs of a large number of stakeholders. Amy's experience with sewer mains, manholes, and gravity sewers equips her to serve Johnson County Wastewater with success.

- Currently Supports On-Call City Engineering for Roeland Park and Spring Hill, KS, Excelsior Springs, Kearney, and Lake Lotawana, MO
 - » Amy supports our firm's on-call City Engineering contracts by conducting plan reviews for both public and private development and redevelopment projects to ensure compliance with applicable design requirements, standards, and specifications. Plan reviews include sanitary sewer systems to serve multi-phase master planned residential and commercial developments, routine sanitary sewer connection plans for buildings, associated erosion and sediment control plans, and ensuring required permits are obtained.
- City of Kansas City, Missouri, Water Services Department, Stormwater Engineering
 - » Amy served as City of Kansas City, Missouri, project manager on a myriad of stormwater engineering projects that included close coordination with sanitary sewer collection systems engineering to address pipeline conflicts and ensure proper protection or rehabilitation of sanitary sewer lines during in-stream construction projects. Amy also performed plan reviews for sewer separation projects and floodplain development permit reviews for City Capital Improvement Program and development projects. Amy frequently coordinated with the U.S. Army Corps of Engineers as City ("Local Sponsor") project manager for multiple Section 14 – Emergency Streambank Protection projects intended to protect public infrastructure, including exposed sanitary sewer mains and manholes, from vertical and lateral stream instability.
- City of Kansas City, Missouri, City Planning and Development Department, Land Development Division, Plan Review Engineer
 - » Amy was responsible for performing detailed reviews of public street, storm, and sanitary sewer infrastructure/

land disturbance/stream buffer plans, plats, stormwater management studies, sanitary sewer capacity analysis reports, easements, and legal agreements to assure compliance with City design criteria, standards, specifications, and codes. Amy participated in Development Assistance Team, Development Review Committee, City Plan Commission, and various ad hoc meetings as primary representative for the division. This position required coordination and cooperation with engineers, developers, contractors, inspectors, and multiple City departments and staff.emorandum, design and construction phase services.

- Kansas Department of Transportation, Kansas Local Bridge Evaluation Program, Stream Instability and Scour Assessments for Off-System Bridges
 - » Amy was an integral member of the team responsible for performing site visits and desktop assessments of stream instability and scour at more than 20,000 off-system (city or county-owned) bridges. While not directly related to sanitary sewer collection system engineering, her work on this project allowed Amy to develop knowledge of fluvial geomorphology. As gravity sewers must occupy the same valleys as streams, potential lateral and vertical stream movement must be considered for resilient sanitary sewer system design, and Amy's specialized experience can assist in that aspect of design.



- On-call engineering services
- On-call plan review
- Public and private development
- Project management for large utilities such as Kansas City Water Services Department
- Streambank protections and stormwater engineering
- Coordination with the U.S. Army Corps of Engineers
- Watershed management



Dan McGhee PE, ENV-SP | Senior Project Manager

b. Email and Phone Number: Dan.McGhee@LampRynearson.com | 816.823.7239

c. Project Assignment: On-Call Services - Private Development Review

d. Name of firm with which associated: Lamp Rynearson, Inc.

f. Education: BS | 2003 | University of Missouri Rolla | Civil Engineering

g. Active registration:2008, Professional Engineer2015, Envision Sustainability Professional

e. Years' experience:

With the firm: 4/With other firms: 14

h. Other Experience and Qualifications relevant to the proposed project:

Dan McGhee, PE, ENV-SP has 18 years of extensive design experience in site civil design for municipal and private clients. His expertise includes sanitary sewer, streetscape plans, erosion control, stormwater management facilities, and water main design. Dan managed a neighborhood street reconstruction project that directly impacted 43 residences and managed a 2019 Johnson County CARS street rehabilitation project in the City of Roeland Park. Dan's role with JCW will involve coordination with private developers and site civil evaluations to provide design guidance to make sure they are in accordance with JCW standards. Dan will also serve as a resource for any transportation related concerns that could arise during new sewer construction. He excels in both the residential and commercial development world, currently managing stormwater improvement projects in existing subdivisions for the City of Lee's Summit as well as Summit View Farms, a residential subdivision project in Lee's Summit and Kansas City, Missouri.

Currently Supports On-Call City Engineering for Roeland Park and Spring Hill, KS, Grain Valley, Lake Lotawana, Excelsior Springs, and Raytown, MO

» Dan supports our firm's on-call City Engineering contracts by providing designs and managing construction projects for multiple communities across the Kansas City metro including those listed above. Dan has conducted plan reviews, stormwater management, sanitary sewer reviews, transportation and infrastructure projects, and updated development and construction standards in an on-call capacity. Plan reviews include sanitary sewers systems to serve multi-phase master planned residential and commercial developments, ensuring the design is in accordance with City and State design criteria.

On-Call Services – Roeland Park, Kansas

- » 2021 Neighborhood Street Reconstruction Program, Reinhardt Drive, Roeland Park, KS
 - Dan served as project manager throughout design and survey services for the 2021 Neighborhood Street Reconstruction Project (NSRP), which reconstructed Reinhardt Drive between Pawnee Drive and W 48th Street. The project included coordination with JCW to minimize damage to any sewer lines in the area and replacing existing street section between Pawnee Drive and W 50th Street with new aggregate base, pavement section, curb and gutter, and enhanced decorative sidewalk on the east side of the project. The project north of W 50th Street replaced the street section between the curb and gutter, but also provided infill sidewalk construction to provide a complete accessible route. A project specific traffic control plan was developed to minimize the impacts to both the residents and the schools within the corridor.
- » R Park Phase 1 and Phase 2, Roeland Park, KS
- The City's Parks Committee in significantly upgrading R Park for their 6,800-person community. These improvements have been years in the making, as the school building was demolished a decade ago to begin redeveloping the land as "R Park". Dan McGhee led the Phase 1 and 2 design team, which were constructed

concurrently to add a pavilion with a fireplace, grill, performance stage, and pergolas, unisex restrooms, and a turf youth soccer field. A Johnson County Wastewater LineRelocation was required to support the soccer field development and provide a safe playing surface

- First National Bank of Omaha Lenexa and Overland Park, KS
 - » Continuing Lamp Rynearson's legacy of providing design services for First National Bank of Omaha, Dan McGhee spearheaded bringing their development to the Kansas City market. Dan is providing project management for the design and construction of 3 project sites in Lenexa and Overland Park, Kansas in the vicinity of Mauer Road, College Boulevard, and 119th Street. Sanitary Sewer service stubs were reviewed and provided to JCW for approval.

Redwood Homes Development, Lenexa, KS and Blue Springs, MO

» Continuing Lamp Rynearson's legacy of providing design services in Omaha, Nebraska for Redwood Homes, Dan McGhee spearheaded the design of their expansion into the Kansas City market. Dan is providing project management for the design and construction of 2 project sites in Lenexa, Kansas and Blue Springs, Missouri. These apartment homes are are affordable alternatives to apartment complexes that provide a better quality of life for residents. This ground level accessible friendly style of neighborhood living includes access to a yard, patio, garage, and other amenities you might enjoy with home ownership without the responsibility of maintenance.



- On-call plan review
- Public and private development
- OSHA 10-hour Certification: Construction Safety and Heath
- Active member of American Public Works Association



a. Name and Title: Greg Van Patten, PE | Project Manager

b. Email and Phone Number: Greg.VanPatten@LampRynearson.com | 816.823.7331

c. Project Assignment: On-Call Services -Construction Observation

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 6/With other firms: 1 f. Education:

BS | 2014 | University of Missouri | Civil and Environmental Engineering (Minor in Mathematics)

g. Active registration: 2019, Professional Engineer 2022, KDOT Inspector 2016, NASSCO PACP, LACP, MACP 2021, NASSCO CIPP & MH Inspection

h. Other Experience and Qualifications relevant to the proposed project:

As a senior project engineer and construction observer at Lamp Rynearson, Greg Van Patten is a champion for understanding design plans and ensuring they are constructed as intended. Specializing in sanitary, street and storm drainage design, his experience includes creating streetscapes for downtown areas, suburban neighborhoods, and new residential developments. Greg is a compliance expert and knows the regulations and guidelines for roadway design, including ADA and APWA.

Greg's history in construction administration includes being a construction engineer inspector for the Missouri Department of Transportation (MoDOT) and is also a licensed Kansas Department of Transportation (KDOT) inspector. He has expertise in contractor management, quality assurance testing, erosion control best management practice, running estimates, writing daily work reports, and interpreting design plans.

Shawnee Mission Parkway Sinkhole Repairs, Mission Woods, KS

- » In response to a sinkhole that developed on the south side of Shawnee Mission Parkway, Greg served as construction observer on the emergency repairs. A deep cast was designed and constructed to fix existing pipe sizes that ranged from 18 inches to a 3-foot by 2-foot reinforced box culvert. Portions of existing pipe segments that failed were replaced and connected to existing with concrete pipe collars
- Roeland Park Chip Seal and UBAS Street Maintenance Projects: 2018-2021
 - » As part of an on-call City Engineering contract with the City of Roeland Park, Greg provided construction administration and observation services for their 2018-2021 Street Maintenance Projects. Treatments used included mill and overlay, chp seal, and ultrathin bonded asphalt surface (UBAS).

RC12-018 Alternate 2, Roeland Park, KS

- » As part of an on-call City Engineering contract with the City of Roeland Park, Greg provided administration and observation services for RC12-018 Alternate 2.
- 51st Street Storm Improvements, Mission Woods, KS
 - » Served as construction observer on the stormwater improvements to 51st Street in Mission Woods, Kansas. The existing storm was undersized, and the street subgrade was dilapidated. Storm sewers were upsized, and streets repaired accordingly.
- 2017-2021 Streetscape Projects, Excelsior Springs, MO
 - » In 2017, the City of Excelsior Springs expanded their annual mill and overlay in house project to include improvements for

several streets in the downtown area and surrounding area. Lamp Rynearson has been retained ever since for the design and construction observation of these streetscape projects including storm sewer improvements and the addition of bike lanes. Greg served as construction observer on the improvements from 2017-2021.

- Headworks Design & Construction, Kearney, MO
 - » Part of 40 years of service for the City of Kearney, Missouri by Lamp Rynearson, Greg served as construction observer in 2019 for the new wastewater treatment plant headworks including influent pumps, grit removal and a perforated screen..

• Foxberry Estates, 3rd Plat, Lake Lotawana, CID, Lake Lotawana, MO

» Part of 40 years of service for the City of Lake Lotawana Home Association, Greg provided construction observation services for improvements to the 3rd Plat of Foxberry Estates. This neighborhood, close in proximity to Lee's Summit, Missouri, includes a variety of amenities such as an outdoor pool, clubhouse, playground, stocked fishing ponds, and walking trails.

- CIPP Certified, NASSCO Inspector Training Certification Program
- Manhole Rehabilitation, NASSCO Inspector Training Certification Program
- MoDOT Construction Inspector Certifications, including Superpave, and Concrete and Asphalt Paving Inspection
- Pavement management
- On-call plan review
- On-call construction inspection
- Private and public development experience



Kenny Jones Construction Observer/Inspector

b. Email and Phone Number: Ken.Jones@LampRynearson.com | 816.823.7331

c. Project Assignment: On-Call Services -Construction Observation f. Education: N/A

g. Active registration: 2018, Confined Space Certified 2018, CIPP Certified

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 35/With other firms: 2

h. Other Experience and Qualifications relevant to the proposed project:

Kendall Jones has over 35 years of experience at Lamp Rynearson, first joining us in 1987. He primarily serves as a construction inspector, project representative and client liaison. With experience across a diverse range of disciplines such as water, wastewater, streets, storm drainage, and aquatics, his years of experience will come to the forefront as he works on your project.

- Town Fork Creek Neighborhood Sewer Rehabilitation, Kansas City, MO
 - » Provided construction observation for the \$13 Million-dollar rehabilitation the Town Fork Creek Neighborhood Sewer. Approximately 283,000 linear feet of CCTV was evaluated as well as 2,250 manhole inspections prior to construction
- Northeast Area and Gooseneck Creek Neighborhood Sewer Rehabilitation, Kansas City, MO
 - » Kenny provided construction observation for the KCMO Northeast Area and Gooseneck Creek Neighborhood Sewer Rehabilitation project. This project included collection system risk analysis, review of over 400,000 linear feet of CCTV inspection, smoke testing, dyed water testing and manhole inspection data.

• Wastewater Treatment Plant Improvements, Lake Lotawana, MO (On-Call Services)

» Provided construction observation for construction of a new wastewater treatment plant in Lake Lotawana, Missouri. Improvements include a new screen structure/influent pump station, a new anaerobic basin, modifications to the existing anoxic and aerobic basins, new clarifiers, a new UV disinfection system, cascade aeration, and related improvements.

Headworks and Influent Pump Station Design & Construction, Kearney, MO

- » Part of 40 years of service for the City of Kearney, Missouri by Lamp Rynearson, Kenny served as construction observer in 2019 for the new wastewater treatment plant headworks including influent pumps, grit removal and a perforated screen.
- Wastewater Treatment Plant, Excelsior Springs, MO
 - » Provided construction observation for multiple phases of improvements to the wastewater treatment plant at Excelsior

Springs, Missouri. This included the original design of a new 3.5 md wastewater treatment facility to meet current and anticipated future NPDES limits. Several pumping systems were included in the project such as an influent lift station with five pumps, return and waste sludge pumps, non-potable water pumps, and rotary fan press loading pumps.

2022 CARS - Rehabilitation of Tomahawk Road, Mission Hills, KS

» After doing the original study, Lamp Rynearson was selected to design a rehabilitation of Tomahawk Road in Mission Hills, Kansas. Kenny is currently providing ongoing construction inspection on the project.

Golfhill Subdivision, Excelsior Springs, MO

» The City of Excelsior Springs retained Lamp Rynearson to create single family residential lots to the west of the Excelsior Springs Golf Club. Lamp Rynearson and consulting partners surveyed, platted and prepared construction documents to support 29 lots. A gravity sanitary sewer extension and stormwater quality basins with integrated retaining walls were needed to support the project. Construction contract administration services were provided, including construction observation to ensure public infrastructure was constructed in accordance with project specifications and permit requirements. Construction was completed in fall of 2018.



- Inspector Training & Certification Program (ITCP) for Manhole Rehabilitation
- On-call construction inspection
- Private and public development experience
- ACI certified



a. Name and Title: Dave McIvor, PE | Senior Construction Engineer

b. Email and Phone Number: Dave.Mclvor@LampRynearson.com | 402.885.6557

c. Project Assignment: On-Call Services -

Development Plan Review; Construction Services

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 22/With other firms: 0 f. Education:

BS | 2002 | University of Nebraska - Omaha | Civil Engineering

g. Active registration: 2008, Professional Engineer

h. Other Experience and Qualifications relevant to the proposed project:

Construction observation and administration in a wide variety of civil engineering projects highlight Dave McIvor's professional experience. Sanitary sewer, directional drilling, jack and bore tunneling, storm sewer, concrete paving and general site civil are all project types he has directed.

Communication is a key strength of Dave's. He uses numerous methods to regularly communicate project updates; by phone, email, and weekly progress meetings. He is detailed, organized, and thorough. Dave has an excellent working relationship with City municipalities. Dave is provided as an expert resource in contractor communication and construction phase services. He can also be on-site to provide technical knowledge of tunneling operation depending on the selected project.

- Nicholas Street Sewer Extension Phases I III, Omaha, NE
 - » Provided construction management during the construction of a large storm and sanitary sewer separation on multiple phases of the Nicholas Street Sewer Extension project.
- Webster Street Sewer Extension, Phase I, Omaha, NE
 - » Served as Construction Engineer for a large storm and sanitary sewer separation on multiple phases of the Webster Street Sewer Extension project.

Timber Shores SID 547, Douglas County, NE

» Ongoing professional services for infrastructure maintenance on Sanitary and Improvement District (SID) 547. Responsibilities include review and coordination of maintenance of District-owned infrastructure, including sanitary sewer lift station maintenance and grinder pump service connections, along with storm sewer system and pavement maintenance and repairs.

West Papio Storm Outfall Improvements, Omaha, NE

» Provided construction engineering services on the repair of the outfall structure at the crossing of West Papio Creek near Millard Airport. Responsibilities included having a presence on-site to monitor, document, and report project activities and progress. Accommodations were made to protect both existing utilities and structures.

Lakeview SID 335, Sarpy County, NE

» Provided construction administration for infrastructure improvements on Sanitary and Improvement District (SID) 335. Responsibilities included coordination with the contractor for installation of sanitary sewer pipe, lift station construction, storm sewer pipe and paving, along with documentation and verification of project activities and progress.

• 16th and Grace Sewer Reconstruction, Omaha, NE

» Primary duties included coordinating communication between owner, contractor, and shareholders; tracking and review of work completed; processing partial estimates; and facilitating discussions to address problems that arise during construction.

Aksarben Village, Omaha, NE

» Provided construction administration for demolition, grading, storm sewer, sanitary sewer, and paving to the dynamic urban redevelopment project, Aksarben Village. This project consisted of mixed-use redevelopment including residential, office, retail, entertainment, and recreation.

Shadow Lake Water, Section I, Papillion, NE

» Construction involvement, sampling and acceptance testing of 8,000 feet of 8" water main and 4,000 feet of 16" water main for project. Instrumental in coordinating with contractor and client through project.

Spring Lake Drive / F & 16th Streets, Omaha, NE

» Construction administration and observation for City of Omaha on roadway construction.



- On-call plan review
- Development plan review
- On-call construction inspection
- National Society of Professional Engineers (NSPE) Eastern Nebraska Chapter President 2019-2020


Lamp Rynearson, Inc.

e. Years' experience:

With the firm: 7/With other firms: 0

a. Name and Title:

Sam Howland, PLA, ASLA, ENV-SP | Wetlands Specialist

b. Email and Phone Number: Sam.Howland@LampRynearson.com | 402.885.6574

c. Project Assignment: Wetlands Specialist

f. Education:

BLA | 2014 | Iowa State University | Landscape Architecture BS | 2014 | Iowa State University | Environmental Studies

g. Active registration:

2021, Professional Landscape Architect 2015, NDOR/LPA Approved Wetland Delineation Consultant 2017, USACE Approved Wetlands Specialist

h. Other Experience and Qualifications relevant to the proposed project:

Maintaining vitality in a rural setting led her to an interest in ecological design and sustainable landscapes; understanding the importance of creating designs that con-nect people, places and ideas. Sam is a wetland specialist on all aspects of the delineation including desktop delineation, wetland delineation, and wetland reports and permits. Sam will be providing permitting and regulation guidance with stream crossings, evaluation of wetlands considerations and environmental permitting for JCW as part of this contract.

Wetland Review and Stream Crossing, Louisburg, KS

» As Wetlands Specialist, Sam coordinated with the Wastewater team and the City to provide review of wetlands and stream crossings during all phases of the Lousiburg Wastewater Treatment Plant project. This also included permitting and a review of the migratory bird treaty act to provide construction guidance to remain in compliance for pipeline construction

Hills of Aspen Creek, Omaha, NE •

» Served as a Wetlands Specialist, through field investigation and coordinating with the corps a 404 permit was acquired for this housing development, which included onsite mitigation for channel and wetland impacts at a 2:1 ratio. Our team worked on creating a green corridor connection to an existing channel adjacent to the project through our mitigation efforts, providing connectivity to this existing feature has provided hydrologic significance to these mitigation locations.

192nd and Cornhusker, Sarpy County, NE

» Served as Wetlands Specialist, coordinating with the Corp and acquiring 404 permits for two proposed box culverts. Sam was able to find an offsite mitigation landsite to meet the requirement of the 404 permit. This project would impact delineated wetlands in the area and Sam had to replace inkind at a 4:1 ratio. Our team worked with the developer to find suitable mitigation.

Pine Lake Road Bridge Improvement, • Lancaster County, NE

- » Served as the Wetlands Specialist, through field investigation and coordinating with the corps a basic 404 permit was acquired. Lancaster County can now replace their dilapidated bridge on Pine Lake Road due to flooding of Stevens Creek.
- Iron Bluff Mixed Use Development
 - » Serving as the Wetland Specialist on this project Sam

worked with the design team to arrange road alignment to lessen Waters of the US impacts as much as possible while still providing required circulation connections to existing development. Through coordination with the Corp and City of Omaha a 404 permit was obtained through wetland mitigating at a 3:1 ratio on this project's future city park land.

"Many engineers can perform the technical aspects of projects reliably, but to Lamp Rynearson's credit they also shine on the interpersonal and communications tasks associated with every project, yet misunderstood or overlooked by some of their competitors."

- Ed Rockwell General Manager for Support Services, Millard Public Schools



- Wetland Delineation Certified (Minnesota Wetland
- Delineator Certification Program)
 - CLARB (Council of Landscape Architectural Registration Boards) Certified Landscape Architect
- Streambank protection
- Envision Sustainability Professional
- American Society of Landscape Architects (ASLA) Great **Plains Chapter**



a. Name and Title:

Regan Pence, PLA | Landscape Architecture Lead

b. Email and Phone Number: Regan.Pence@LampRynearson.com | 402.885.6570

c. Project Assignment: Landscape Architect

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 10/With other firms: 6 f. Education: BLA | 2004 | University of Idaho | Landscape Architecture

g. Active registration: 2013, Professional Landscape Architect

h. Other Experience and Qualifications relevant to the proposed project:

As a professional landscape architect with experience across the Midwest, West and West Coast, Regan Pence has been involved in a number of multifaceted projects including redevelopment, entertainment districts, mixed-use, parks and cemeteries, brownfield and municipal projects. Regan's strengths include the ability to work closely with groups to incorporate ideas and visions into a goal-oriented plan. His experience includes guiding others through the design process and vision, project management, presentations, fundraising, master planning and full scope construction design. Regan's role on this project will be to provide landscape design on new development sewers and to make sure the property owners receive a finished product that is visually pleasing. We realize that the design of improvements can be disruptive and want to restore any improvements to a condition better than when we started.

Atlas Apartments, Residential Redevelopment, Omaha, NE

» Served as Project Manager and provided landscape architecture, utility coordination, environmental backgrounds, and grant support for the Atlas Apartments project. An outdated hospital was redeveloped into a lively, mixed-use living space. Regan assisted with sustainability efforts such as the creation of a 40-acre urban watershed in view of the 700-apartment building.

Capitol District Plaza, Omaha, NE

» Served as Project Manager and provided landscape architecture on the Capitol District Plaza project, a new mixed-used entertainment district being constructed in downtown Omaha. Regan provided utility coordination, planting design, and beautification of this development that includes everything from a hotel, apartments, retail and office buildings, restaurants, and a parking garage.

Metropolitan Community College, Fort Omaha Campus, Omaha, NE

» Served as Landscape Architect on this project which included the expansion of an existing 100+ year old historical campus. Regan took steps to thoughtfully plan, design, coordinate utilities, and build three new buildings that bridge the gap of emerging technologies in the construction trade. Extensive improvements and beautification significantly improved public access and the aesthetics of the college along street corridors.

The Breakers / Residential Redevelopment, Omaha, NE

» Served as Project Manager and provided landscape architecture on The Breakers Redevelopment project which consisted of revamping an unused electricity plant that had been decommissioned for 30 years. The \$40 million Breakers redevelopment project has 217 housing options and is a creative link between Little Italy and the Old Market areas – right on the Missouri River. Regan creatively reused large electrical plant elements such as turbines and wove them into the surrounding landscape to pay tribute to the building's former use.

- Idaho Veterans Cemetery Phase II Expansion Boise, ID
 - » Site development on 16,000 internment expansion. Included new plaza, maintenance buildings, roads and landscaping and irrigation over entire project.
- Eagle Island Park Improvements Phase 1 Drawing Package A Eagle, ID
 - » Development of 547 acre state park. Involved new 125 acre pond design and included internal roads and trails. Regan was heavily involved in landscape and irrigation design.
- Offutt Air Force Base INS ECP & Control, 557WW, B185 Bellevue, NE
 - » Design of new entry control point/control area for Air Force Weather Wing. Blended new construction/layout with existing features while meeting Anti-Terrorism and Force Protection Requirements.



- Landscape architecture with multi-disciplinary
 experience
- American Society of Landscape Architects ASLA Past
 President of Great Plains Chapter
- Urban Land Institute
- Nebraska State Board of Landscape Architects



a. Name and Title:

Kellan Gregory, PLS | Survey Practice Lead

b. Email and Phone Number: Kellan.Gregory@LampRynearson.com | 816.823.7241

c. Project Assignment: Survey Practice Lead f. Education: AAS | 2004 | Metro Community College | Land Surveying

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 5/With other firms: 15 g. Active registration: 2012, Professional Land Surveyor

h. Other Experience and Qualifications relevant to the proposed project:

Kellan is a licensed land surveyor, utility coordinator, and drone pilot with 20 total years of experience in the land surveying field, five of which being in a project management role. Kellan is proficient in topographic surveys using traditional, modern, aerial, and bathymetric methods; construction planning and staking, right-of-way surveys, and utility surveys, as well as property record research and legal description preparation.

- Topographic Survey, Meyer Creek Improvements, Overland Park, KS*
 - » Drafted JCW easement vacation and easement acquisition documents for the sanitary sewer relocations along Meyer Creek.
- Construction Staking, BNR Wastewater Treatment
 Plant and Facility Plan, Louisburg, KS
 - » Calculated and staked the horizontal and vertical positions of the proposed sanitary sewer force main for the new wastewater treatment plant.
- Topographic Survey & Access Easement, Wastewater Treatment Plant Improvements, Lake Lotawana, MO
 - » Supervised the control establishment, boundary establishment, and topographic survey for the expansion of the City's existing plant site. Wrote the legal description and easement exhibit for an access easement across private lands to allow legal access into the City's plant site from the public road right-of-way.
- Topographic Survey, Wastewater Treatment Plant Digester, Excelsior Springs, MO
 - » Supervised the control establishment and topographic survey for the addition of a second digester on the City's existing plant site.
- Construction Staking, Wastewater Treatment Plant
 Improvements, Lebanon, MO
 - » Established control network from City's existing plant survey. Calculated and staked the horizontal and vertical positions of the proposed digester and splitter for the new wastewater treatment plant.

- Boundary Survey, Kansas City Girls Academy, Kansas City, MO
 - » Provided boundary survey for a sanitary sewer line extension.
- Miscellaneous Survey Services, Martin Marietta, Platte and Clay County, MO
 - » Provided boundary, control and topographic surveys; bathymetric surveys; construction staking; volumetric surveys; pho-togrammetric surveys and 3D laser scanning for open pit and underground mining operations.
- Topographic Survey, Spring Hill, KS
 - » As part of our on-call City engineering services for the City of Spring Hill, Kellan provided topographic survey, boundary, and easement for a waterline extension.
- Construction Staking, WaterOne, Johnson County, KS
 - » Provided project management for 105th and Woodland easements and 51st and Dearborn CL staking.
- Construction Staking, WaterOne, Johnson County, KS
 - » Provided project management for 105th and Woodland easements and 51st and Dearborn CL staking.
- Community Center and Nall Park Platting, Roeland Park, KS
 - » As part of our on-call City engineering services for the City of Roeland Park, Kellan provided project management for platting at Nall Park and the new Roeland Park community center.



- Licensed drone pilot
- Missouri Society of Professional Surveyors (2005-Present)
- Kansas Society of Land Surveyors (2012-Present)
- Professional Surveyors of Nebraska (2016-Present)
- Society of Land Surveyors of Iowa (2018-Present)



Lamp Rynearson, Inc.

e. Years' experience:

d. Name of firm with which associated:

With the firm: 5/With other firms: 1

a. Name and Title:

Mike DeBoer | Information Technology (IT) Group Leader

b. Email and Phone Number: Mike.DeBoer@LampRynearson.com | 402.885.6583

c. Project Assignment: GIS Specialist f. Education:

BA | 2013 | University of Nebraska – Omaha | Arts and Science MA | 2016 | University of Nebraska – Omaha | Arts and Science

g. Active registration: 2017, FAA Commercial Drone Pilot

h. Other Experience and Qualifications relevant to the proposed project:

While studying at the University of Nebraska in Omaha, Mike DeBoer found a passion for Geographic Information Systems (GIS). After graduating from UNO, Mike started his GIS career in Local Government and transitioned to the private sector of GIS working for ESRI, the largest GIS software company. Working for both the public and private section has added to his education and understanding of GIS as a system. Mike has focused his GIS career on Site Analysis, Drone Imagery, Data Analysis, and creating GIS Web Mapping Applications to help both our clients and engineers at Lamp Rynearson.

Town Fork Creek Sewer Assessment, Kansas City, MO

- » Served as GIS Specialist by providing 360 LIDAR scanning of a manhole for the KCMO Town Fork Creek Sanitary Sewer Rehabilitation.
- Offutt AFB Flood Recovery Site Improvements, Offutt AFB, NE
 - » Converted base supplied GIS data to an AutoCAD format used in planning, charrette and design of improvements. Assisted Offutt AFB in uploading design information unto base GIS server.
- LeMay and Arnold Entry Control Facilities, Whiteman Air Force Base, MO
 - » Converted base supplied GIS data to a modified state plane coordinate system in AutoCAD format use in planning, charrette and design of Entry Control Facilities.
- Eppley Airfield GIS Data Updates, Omaha, NE
 - » Converted all new construct and project repairs to GIS data to maintain Eppley's GIS database.
- SOCNORTH Theater Operational Support Facility Peterson Air Force Base, CO
 - » Converted base supplied GIS data to survey datum and coordinates to be used in design and construction of facility.
- Eppley Airfield GIS Server Development, Omaha, NE
 - » Assisted Eppley's IT department in administering, creating, and hosting GIS services using ArcGIS Server Enterprise Platform. Allowed Airport to implement operation monitoring system (GCR).

- Omaha Airport Authority Building Height Calculations, Omaha, NE
 - » Calculated maximum building heights using custom GIS scripting and criteria based on airport flight restrictions. Calculations looked at FAA and City regulations to calculate max build height.
- Eppley Airfield Cargo A GIS Conversion Omaha, NE
 - » Converted As-Built CAD data to FAA AGIS format then submitted data to FAA. Required understanding of survey as well as construction design.
- Eppley Airfield Terminal Ramp GIS Conversion
 Omaha, NE
 - » Converted As-Built CAD data to FAA AGIS format then submitted data to FAA. Required understanding of survey as well as construction design.
- Aerial Photogrammetry, Redwood Homes, Omaha, NE
 - » Provided a UAS Photogrametry flight of farm land and Lidar Drone Flight of a creek.
- Martin Marietta, Dubois
 - » 300 UAS Survey for site planning and stock pile quantities.



- GIS technology and analytics
 - Certified drone pilot
 - 360 LIDAR scanning of sanitary sewer collection systems
- Nebraska GIS/LIS
- Experience working for Esri



a. Name and Title: Scott Morrow | Senior Project Designer

b. Email and Phone Number: Scott.Morrow@LampRynearson.com | 816.823.7287

c. Project Assignment: **Project Technician**

d. Name of firm with which associated: Lamp Rynearson, Inc.

e. Years' experience: With the firm: 8/With other firms: 27 f. Education: AAS | 2004 | Central Missouri State University | Drafting Technology

g. Active registration: **N/A**

h. Other Experience and Qualifications relevant to the proposed project:

Scott brings with him 35 years in the architectural and engineering industry. He is a Senior Technician with experience working on a range of wastewater projects including pump stations, gravity sewer installations and low-pressure sewer designs. Scott's role on this project will involve being the lead technician responsible for producing a quality deliverable to JCW.

· Hardesty Ave. Relief Sewer, Kansas City, MO

» Scott was responsible for plan production of a new parallel relief sewer for the City of Kansas City, MO. The new design consisted of a 3,000 feet pipeline with sizes ranging from 36inch to 48-inches. Design included connection to an existing combined sewer box structure and addition of a structure to allow for grit removal. Existing sewer review consisted of manhole inspections, CCTV review and the development of improvement recommendations based on the findings. Overall project responsibilities consisted of the development of the plans for all phases of the project along with the preparation of report figures.

Inflow & Infiltration (I/I) Reduction, North of the River, Phase 1, Kansas City, MO

» Scott provided plan production for I/I Reduction, North of the River, Phase 1 for KCMO. This project included I/I analysis with review of data from 8 flow meters and 4 rain gauges and determined the level of service at various storm recurrence intervals for each of the metered areas. It also included the review of field inspection data which included 1,200 manholes, 260,000 feet of CCTV, smoke and dyed water testing. Scott prepared figures for a preliminary design report summarizing data evaluation and ranking of assets by projected 5-year I/I removal cost effectiveness and included creative solutions to relieve a chronic water in basement area by designing a relief sewer that rerouted peak flows away from houses built on lower elevations.

Wastewater Treatment UV Disinfection Replacement Study, Design & Construction, Spring Hill, KS

» This project included a study and design and construction engineering services to replace an outdated open channel, horizontal UV disinfection system at the Spring Hill wastewater treatment plant. Scott provided design support and created design documents for new UV disinfection system.

• Wastewater Facility Plan, Antidegradation Study, and WWTP and Pump Station Design, Louisburg, KS

- » Provided plan production services for a new pump station that was installed at one lagoon that pumped flow from that facility to the new treatment facility, which was located at the second lagoon site. Portions of both lagoons were retained in service for peak flow and sludge storage.
- East Lift Station Generator, Kearney, MO
 - » Created design documents, provided design support for a new generator at an existing lift station.
- B503, B592, and B495 Lift Stations and Water Lines, Offutt Air Force Base, Omaha, Nebraska
 - » Scott was responsible for the plan production of two new lift stations outfitted with variable speed drives as part of the base's infrastructure overhaul project. The project included the design of 3600 feet of 10-inch gravity sewer and 1000 feet of 6-inch forcemain.
- Wastewater Treatment Plant, Leeton, MO
 - » Provided design documents for Wastewater Facility improvements. Including new Nitrification system, U.V. and Clarifier Structures.



- Multi-disciplinary project design experience
- Excels in both CAD and Revit
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title:

Ann Frame Hertzog | Project Engagement Director

b. Email and Phone Number: ann@shockeyconsulting.com | 913.231.4875

c. Project Assignment: Public Engagement/Planning

d. Name of firm with which associated: Shockey Consulting

e. Years' experience: With the firm: 6/With other firms: 25+ f. Education:

BS | 1983 | University of Kansas | Computer Science

g. Active registration: 2022, IAP2, SMPS, APA Member

h. Other Experience and Qualifications relevant to the proposed project:

Ann Frame Hertzog has more than 35-years' experience in marketing, communications, and project management, starting in sports and entertainment with the Kansas Relays, the 1984 Los Angeles Olympics, Major League Baseball Office of the Commissioner in New York, and as Universal Pictures' Vice President of Advertising. After moving back to Kansas in 2006, she directed state and local initiatives. She worked with the state of Kansas to create the new Problem Gambler's Awareness campaign, KNOW YOUR LIMITS, and to create and implement its voter education campaign, GOT PHOTO ID?, as well as worked closely with the Lawrence-Douglas County Health Department and the Bill Self Assists Foundation developing the FuelGood campaign to promote healthy food options. Since 2015, Ann has been working with Shockey focusing her talents on developing and implementing strategic outreach, voter education, and infrastructure engagement plans.

Tomahawk Creek Wastewater Treatment Facility Expansion Project

» Public engagement and outreach lead consultant for Johnson County's largest infrastructure project, the Tomahawk Creek Wastewater Treatment Facility Expansion. Working with JCW, two engineering teams and the CMAR created a comprehensive public engagement campaign to inform the residents about the project, proactively reaching out to residents and receiving feedback and input on concerns. Created a project website (www.jcwtomahawk. com) to keep residents, public officials and the public informed. Information on the website includes the project information, schedule, team, maps, videos, faqs and contacts. In addition to the website, engagement activities included public meetings, mailings, groundbreaking event, ribbon cutting event, press relations, education videos and trail signage.

Nelson Wastewater Treatment Facility Improvements Project

» Wastewater's infrastructure project the Nelson Wastewater Treatment Improvements Project. Working with JCW, the engineering teams and the CMAR created a comprehensive public engagement campaign to inform the residents about the project. Outreach designed to proactively engage residents early in the process, receive feedback and input to help guide the project and address concerns. Created a project website (www.jcwnelson.com) to keep residents, the public and public officials informed. Information on the website includes the project information, when & where information, engagement opportunities, fags and contacts. In addition to the website, engagement activities include public open houses, public meetings, mailings, press relations, videos and slideshows.

Johnson County Wastewater Integrated Plan

» Consultant lead working with JCW and the engineering consultant developing a comprehensive Outreach and Communications Plan for Johnson County Wastewater's 25-Year Integrated Plan. The outreach and engagement campaign is designed to inform and educate the residents and stakeholders about the Integrated Plan and to proactively reach out to receive feedback and input on priorities and concerns. Created a project website to keep residents, public officials and the public informed. In addition to the website (www.jcwprogram.com), engagement activities will include possible public meetings, open houses, road show events, workshops, mailings, press relations, and videos.

KCMO Todd Creek Wastewater Treatment Plant Facility Plan Update

» Engagement lead working with engineering team to develop a public engagement plan and subsequent work products to support the planning and development of a new Todd Creek Wastewater Treatment Plant. Work products include a stakeholder list, support and materials for face-to-face stakeholder meetings and public meetings, informational materials for public consumption, website development for project duration, branding development and materials, and project management associated with stated tasks



- Public Engagement/Planning
- Previous experience leading public engagement and providing landing pages/websites for Johnson County Wastewater



a. Name and Title: Elango Thevar, MBA, PE, CFM | Principal-in-Charge

b. Email and Phone Number: elango@neer.ai |913.669.6408

c. Project Assignment: GIS, Artificial Intelligence, and InfoWorks

d. Name of firm with which associated: **NEER**

e. Years' experience: With the firm: 2/With other firms: 16

f. Education:

MS | 2016 | University of Missouri - Kansas City | Business Administration MS | 2004 | Oklahoma State University | Environmental Engineering BT | 2002 | University of Madras | Chemical Engineering

g. Active registration: 2008, Professional Engineer

h. Other Experience and Qualifications relevant to the proposed project:

Elango Thevar is a certified professional engineer and floodplain manager with more than 15 years of experience with hydrology and hydraulic modeling, water quality modeling, floodplain mapping,watershed master plan and asset management. His experience has included working on watershed master plan, sanitary sewer overflow (SSO) and combined sewer overflow (CSO) studies to strategic asset management for water, sewer and stormwater infrastructure. Through his work on major water infrastructure projects across the U.S., he has acquired a profound understanding of water infrastructure management. He is skilled with using EPA-SWMM, EPA-NET, XP-SWMM, InfoWorks, ICM, MIKE URBAN, HEC-HMS, HEC-RAS, & ARC-GIS.

Sanitary Sewer Real Time Modeling, Forecasting, and ML Driven Risk Management, Raytown, MO

- » Elango's responsibilities include serving as solution architect for the development ML models for sanitary sewer real time modeling, forecasting and risk management. for the City of Raytown, Missouri.
- Johnson County SMP, Stormwater Real Time Modeling, Forecasting, and ML driven Asset Management for Watershed Organization, Johnson County KS
 - » Elango's responsibilities include serving as solution architect for the development ML models for stormwater real time modeling, forecasting and risk management for Johnson County, Kansas.
- KC Water Services, Smart Sensor Network Maintenance and Field Services Project, Kansas City, MO
 - » Elango's responsibilities included serving as solution architect for the development of Machine Learning algorithm to flag malfunctioning rain and flow gages for the Kansas City Water Services Department.
- Sanitary Sewer Real Time Modeling, Forecasting, and ML driven Risk Management, Warrensburg, MO
 - » Elango's responsibilities include serving as solution architect for the development ML models for sanitary sewer real time modeling, forecasting and risk management for the City of Warrensburg, Missouri.

- Little Blue Valley Sewer District, Sanitary Sewer Real Time Modeling, Forecasting, and ML driven Risk Management, Kansas City, MO
 - » Elango's responsibilities include serving as solution architect for the development ML models for sanitary sewer real time modeling forecasting and risk management for Little Blue Valley Sewer District.

"The Neer platform has removed the politics and thereby the real or implicit biases regarding my district's budgeting for and spending on the municipal water system."

Jose Leon, former Director of Public Works, City of Raytown, MO



- Asset management
- InfoWorks
- Modeling
- GIS
- Floodplain mapping
- Watershed master planning
- Hydrology and hydraulic modeling



a. Name and Title: Randy Brodner, PE | Vice President

b. Email and Phone Number: rbrodner@rjnmail.com | 402.718.9528

c. Project Assignment: Forcemain Inspection/SSES/ Manhole Inspections f. Education:

BS | 2006 | Purdue University | Civil Engineering

g. Active registration: 2022, Professional Engineer

d. Name of firm with which associated:RJN Groupe. Years' experience:

With the firm: 15/With other firms: 0

h. Other Experience and Qualifications relevant to the proposed project:

Randy Brodner has been a practicing civil engineer for more than 15 years. With a civil engineering degree from Purdue University, and professional engineer licensure in seven states, Randy has focused his skills on the realms of water and wastewater. His experience encompasses preliminary analysis, design, data interpretation, utility coordination, hydraulic assessments, project construction management, and asset management programs. His portfolio includes large diameter pipe assessments, analysis, feasibility studies, and project expense forecasting. Randy has provided vital engineering insights and management expertise on over 200 projects.

• 66-inch Interceptor Capacity Assessment, Tulsa, OK

» Served as Project Manager on the condition assessment of 12,124 LF of 66-inch sanitary sewer interceptor. Services included manhole inspections (34), including pH tests and penetration tests of pipe and structure walls; collecting attribute and coordinate data for GIS mapping; video pipe inspection using HDCCTV/laser/sonar profiling to analyze and assess the condition of the pipeline; identifying and categorizing structural defects using NASSCO PACP standards; and prepared recommendations for rehabilitation with estimated costs.

Haikey Creek Interceptor Phase 1 Improvements, Broken Arrow, OK

» Served as Project Manager on engineering design for 4,343 LF of 48-inch sliplining of an existing 54-inch diameter concrete sanitary sewer interceptor, manhole rehabilitation (9), and coordination of CCTV and heavy cleaning to remove excess solids before sliplining. Services included hydraulic modeling to evaluate the final peak capacity of 29.1 MGD and preparing100% plans.

Upper Coal Creek Specific Remediation Plan, Tulsa, OK

» Served as Project Manager on a multi-year contract to provide design and construction observation services to improve capacity and eliminate recurring SSO sites. Design services upsized and replaced 43,673 LF of 8- to 36-inch pipe using open-cut, pipe bursting, and jack and bore for road crossings; sliplined 11,400 LF of 8-inch sewer; improved 1,660 LF of 24- to 60-inch interceptor using CIPP; and rehabilitated 1,500 manholes. Services also included field reconnaissance to verify connectivity and conditions, hydraulic modeling, preparation of 30%, 60%, 90%, and 100% design documents, survey and easements, geotechnical investigations, permitting, bidding assistance, and public outreach. Full-time construction observation services for the installation of 43,026 LF of 8- to 36-inch pipe were also provided. Pipeline capacity was increased by an average of 260%, eliminating over 20 chronic wet-weather overflow sites.

Spunky Creek Interceptor Main Design, Tulsa, OK

» Served as Project Manager on engineering design services for 3,850 LF of 36-inch sanitary sewer improvements in the Spunky Creek drainage basin. Services included a preliminary engineering report evaluating all feasible alternatives for the most cost-effective solution, and submittal of 60%, 90%, and 100% design documents; easement document preparation; land acquisition assistance; and a full-time resident project representative.

Wagoner County Trunk Sewer Improvements, Broken Arrow, OK

» Served as Project Manager on the design to replace 24- to 27-inch concrete pipe (4,850 LF) exhibiting significant levels of deterioration. Services included preliminary and final design of open-cut parallel piping and filling existing with cellular concrete. Services also included coordinating a railroad crossing, bidding assistance, and services during construction.

Sp

- Forcemain Inspection
- SSES
- Manhole Inspections
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title: Yann Gallin | Senior Project Manager

b. Email and Phone Number: ygallin@rjnmail.com | 630.682.4700

c. Project Assignment: Forcemain Inspection/SSES/ Manhole Inspections

d. Name of firm with which associated: RJN Group

e. Years' experience:With the firm: 8/With other firms: 10

f. Education:

MS | 2003 | National School for Water and Environmental Engineering of Strasbourg, France | ENGEES

g. Active registration: N/A

h. Other Experience and Qualifications relevant to the proposed project:

Yann Gallin is a Senior Project Manager who earned an MS from the National School for Water and Environmental Engineering of Strasbourg, France. He has provided project management expertise for more than 270 projects during his 8-year tenure with RJN Group. He possesses a robust knowledge of collection and distribution system design and real-world experience resolving challenges associated with water, wastewater, and stormwater infrastructure. His expertise with construction management and the application of no-dig technologies, supported by his extensive body of civil design work—including designing above and below ground, wet-weather sanitary sewer storage facilities, lift stations, and force mains—enables him to deftly identify solutions to even the most complex problems.

Stratford Lift Station Force Main Assessment, Bloomingdale, IL

» Served as Project Manager on the assessment of a 42-year-old force main (3,500 LF of 10-inch ductile iron pipe) to evaluate the overall condition of the pipe, including corrosion levels, following several breaks. Services included PICA Pipers® inspection. Corrosive soils surrounding the pipe caused the breaks. Cathodic protection and routine monitoring were recommended.

151st Street Lift Station and Force Main Inspection, Orland Park, IL

» Served as Project Manager on preliminary design to improve lift station performance, including a force main condition assessment. Services included a comprehensive condition assessment of the lift station structure, wet-well, backup systems, and pump configuration, including drawdown testing. Force main conditions at the lift station revealed signs of deterioration. An in-pipe inspection (1,972 LF of 20-inch ductile iron) was conducted to assess corrosion and determine the remaining useful life of the pipe. Three air pockets, pressure losses of over 10 times the expected levels, and uniform deposits/roughness throughout the pipe were found. Recommendations included developing a pigging program and cleaning the force main every five years with follow-up reinspections to monitor air pockets, deposits, and wall roughness.

PS16 FM Condition Assessment Planning, Madison Metropolitan Sewerage District, WI

» Served as Project Manager on condition assessment planning to develop a phased approach and work plan to

evaluate 2,900 LF of 16-inch force main. Services included performing a desktop assessment of the pipeline using as-builts, GIS data, maintenance histories, SCADA data, and findings from an alignment walk.

Bay Shores Lift Station Force Main Evaluation, Omaha, NE

» Served as Project Manager on the in-pipe acoustic inspection of an 8-inch dry-weather force main (2,400 LF) and a 16inch wet-weather force main (2,400 LF). PICA Pipers® multi-sensor inspection technology was used to measure acoustics, identify air/gas pockets, pressures, blockages and debris, and wall thickness. Engineering analysis was performed, and recommendations were provided for additional inspections using Broadband Electromagnetic Inspection technology, restoring hydraulic capacity using pigging, and developing a monitoring and inspection program.

Specialization/Professional Organizations or Committees

Forcemain Inspection

- SSES
- Manhole Inspections
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title:

Mac Compton, PE | Senior Project Manager

b. Email and Phone Number: mcompton@rjnmail.com | 501.224.2248

c. Project Assignment: Forcemain Inspection/SSES/ Manhole Inspections f. Education:

BS | 2007 | University of Arkansas | Civil Engineering

g. Active registration: 2014, Professional Engineer 2017, PACP, LACP, MACP

d. Name of firm with which associated: RJN Group e. Years' experience:

With the firm: 6/With other firms: 14

h. Other Experience and Qualifications relevant to the proposed project:

Mac Compton serves as a Senior Project Manager, is a licensed professional engineer in nine states, including Kansas, Oklahoma, and Arkansas, and earned a BS in Engineering from the University of Arkansas. Mac brings a diverse background in civil engineering services to his utility relationships. His applied expertise spans a wide range of environmental and utility engineering programs focused on inspecting and analyzing underground infrastructure conditions and performance, designing improvements, and managing construction-phase engineering services. He leads teams to provide system capacity and I/I mitigation solutions using hydraulic modeling, manhole inspections, smoke testing, dye water investigation, NASSCO CCTV review, I/I reduction prioritization and planning, and regulatory documentation.

Sanitary Sewer Evaluation Study, West Memphis, AR

» Served as Project Manager on a multi-phase sewer study where study areas were prioritized based on I/I levels determined from a systemwide flow study. Services included manhole inspections (545), smoke testing (136,000 LF), dye water flooding (15 setups), and management and review of TV pipe inspections (20,000 LF). All defects were categorized using NASSCO standards and engineering analysis was performed to develop a plan for I/I remediation with repair, replacement, and rehabilitation measures.

Multi-Year SSES Program, North Little Rock Wastewater, AR

» Served as Project Manager on a comprehensive multi-year sewer investigation. Services included flow data analysis, manhole inspections (17,444), smoke testing (3,300,337 LF), dye water flooding (461 setups with concurrent TV inspection testing), and review of internal pipe inspection video (863,399 LF). Data was collected/analyzed, GIS maps were updated, and prioritized rehabilitation recommendations were developed.

Rose Creek Longfellow and Sherrill Heights SSES, Garver Engineers, Little Rock Water Reclamation Authority, AR

» Served as Project Manager on a comprehensive SSES and rehabilitation program to identify pipe and manhole defects contributing to inflow and infiltration. Services provided as a subcontractor included manhole inspections (895), smoke testing (146,600 LF), dye water testing (30 setups), night flow isolations (25 setups), review, and quality control of CCTV footage (21,295 LF), and defect analysis with recommendations. Independent QA/QC reviews for constructability and completeness were provided for gravity and service line improvements, mainline improvements for verified overflows, and manhole rehabilitation.

- Jimerson Wet River Ridge and Overlook/Pinnacle Point Drainage Basins SSES, Crist Engineers, Little Rock, AR
 - » Served as Project Manager for comprehensive SSES services, provided as a subcontractor, including manhole inspections (793), smoke testing (136,017 LF), CCTV review and quality control (20,400 LF), dye water flooding (30 setups), flow isolations (25 setups), and engineering analysis of findings to develop recommendations for defect repair, replacement, or rehabilitation.

Design Lower Gulpha Basin Interceptor, Hot Springs, AR

» Served as Project Manager for conceptual and preliminary design involved conceptual design, preliminary design, design survey, multi-sensor pipe inspection (20,200 LF), geotechnical investigations, environmental investigations, SUE investigations, and easement preparation for the gravity sewer-related improvements. Assisted with acquiring railroad, USACE 404, and ADOT permits needed for sewer construction.

- Forcemain Inspection
- SSES
- Manhole Inspections
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title: Marissa Villafuerte, PE | Senior Project Engineer

b. Email and Phone Number: mvillafuerte@rjnmail.com | 630.682.4700

c. Project Assignment: Forcemain Inspection/SSES/ Manhole Inspections

d. Name of firm with which associated: RJN Group

e. Years' experience: With the firm: 6/With other firms: 0

f. Education:

BS | 2016 | University of Illinois at Urbana-Champaign | Environmental Engineering

g. Active registration: 2021, Professional Engineer 2018, PACP, LACP, MACP

h. Other Experience and Qualifications relevant to the proposed project:

Marissa Villafuerte serves as a Project Engineer and is a licensed professional engineer. Marissa has earned a BS degree in environmental engineering from the University of Illinois, is NASSCO certified (PACP/LACP/MACP), and has completed RJN's rigorous safety certification program. She offers more than five years of experience with municipal sewer and water assessment and design programs. She has been responsible for conducting condition assessments and evaluations, verifying collected data, performing analyses, and assisting with utility locates and design services for pipeline and manhole rehabilitation. She has also worked extensively with regulatory agencies assuring the Client's reporting compliance.

Multi-Year SSES and Rehabilitation Program, Lincolnshire, IL

» Served as Project Engineer on a multi-year sewer inspection and rehabilitation program. Services included manhole inspections (935), manhole 360° scanning (238), smoke testing (230,650 LF), CCTV review (180,904 LF) with PACP coding, lift station assessments (9), and I/I analysis to develop recommendations for preventative maintenance and rehabilitation. Design services included CIPP lining (7,351 LF), point repairs (21), and manhole rehabilitation (13).

Multi-Year MWRD Program & SSES Services, Glencoe, IL

» Project Engineer. Multi-year sanitary sewer evaluation study to meet requirements of the MWRD IICP. Services included flow monitoring (14 meters/6 rain gauges), manhole inspections (384), smoke testing (75,122 LF), dye testing (57 setups), CCTV review (72,612 LF), I/I analysis (819 defects identified), and remediation recommendations, MWRD annual reporting, and design services for lining (5,962 LF), manhole rehabilitation (365), and point repairs (21). Parttime construction observation services for point repairs and manhole rehabilitation were also provided.

Multi-Year SSES and Rehabilitation Program, Joliet, IL

» Served as Project Engineer on a multi-year sanitary sewer evaluation and rehabilitation program to capture data and remediate I/I in separate and combined sewer areas. Services, to date (6 years), included permanent flow meter data collection and analysis; temporary metering for I/I analysis and post-rehab assessments involving 106 meters; CSO monitoring at 9 sites; manhole and storm inlet inspections (4,748); wet-weather investigations; smoke testing (957,366 LF); dye water flooding/tracing (73 setups); CCTV video review (957,366 LF); hydraulic modeling (596,195 LF); and private sector I/I removal programs in 10 neighborhoods involving building inspections (808), with follow-up dye tracing to develop recommendations for disconnection. Rehabilitation design to date included point repairs (65), CIPP (56,000 LF), lateral grouting (1,000 LF), lateral lining (800 T-liners), and manhole/storm inlet rehabilitation (420).

- Multi-Year SSES, I/I Analysis and Rehabilitation Program, Danville, IL
 - » Served as Project Engineer on a multi-year sewer study to assess I/I in the system and recommend mitigation measures. The project was initiated with a pilot study involving flow monitoring (1 meter/1 rain gauge), manhole inspections (50), smoke testing (8,700 LF), CCTV review (8,700 LF), and engineering analysis which identified 318,000 GPD of I/I. Following design, bidding, and construction observation services were provided to address high-priority defects. The pilot's success led to a citywide, multi-year program where study basins were prioritized by I/I levels. Services to date have included flow monitoring (15 meters/7 rain gauges), manhole inspections (867), smoke testing (187,000 LF), and CCTV review (187,000 LF) to develop prioritized I/I mitigation recommendations to support City maintenance and capital planning programs.

- Forcemain InspectionSSES
- Manhole Inspections
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title: Lewis Chellberg | Field Manager

b. Email and Phone Number: lchellberg@rjnmail.com | 630.682.4700

c. Project Assignment: Forcemain Inspection/SSES/ Manhole Inspections f. Education:

N/A

d. Name of firm with which associated: RJN Group

e. Years' experience: With the firm: 8/With other firms: 0 g. Active registration: 2015, PACP, LACP, MACP

h. Other Experience and Qualifications relevant to the proposed project:

Lewis Chellberg is a Field Manager with RJN and leads field operations for RJN's complex municipal sewer and water assessment and evaluation programs. He is NASSCO certified (PACP/LACP/MACP) and has completed RJN's rigorous safety certification program. He offers more than eight years of experience conducting and supervising a wide array of field inspection services including manhole inspections, smoke testing, dye water flooding, force main and lift station inspections, and CCTV coordination.

• Multi-Year SSES and Rehabilitation Program, Joliet, IL

» Served as Field Manager on a multi-year sanitary sewer evaluation and rehabilitation program to capture data and remediate I/I in separate and combined sewer areas. Services, to date (6 years), included permanent flow meter data collection and analysis; temporary metering for I/I analysis and post-rehab assessments involving 106 meters; CSO monitoring at 9 sites; manhole and storm inlet inspections (4,748); wet-weather investigations; smoke testing (957,366 LF); dye water flooding/ tracing (73 setups); CCTV video review (957,366 LF); hydraulic modeling (596,195 LF); and private sector I/I removal programs in 10 neighborhoods involving building inspections (808), with follow-up dye tracing to develop recommendations for disconnection. Rehabilitation design to date included point repairs (65), CIPP (56,000 LF), lateral grouting (1,000 LF), lateral lining (800 T-liners), and manhole/storm inlet rehabilitation (420).

Multi-Year SSES and Rehabilitation, Elmhurst, IL

» Field Manager. Multi-year sanitary sewer study to pinpoint the location and quantify the magnitude of public and private sector I/I defects. Services included flow monitoring (6 permanent meters/7 temporary meters/2 rain gauges), manhole inspections (3,382), smoke testing (487,025 LF), dye testing (188 setups), NASSCO CCTV review (44,813 LF/871 laterals), building inspections (3,992), hydraulic modeling (237,000 LF), and lift station and force main asset inventory updates (7). Inflow and infiltration (I/I) rehabilitation measures were designed and constructed including sanitary sewer lining (18,038 LF), storm sewer lining (16,277 LF), manholes (780), and T-lining laterals (753/mainline diameters ranging from 8- to 15-inches).

Bay Shores Lift Station Force Main Evaluation, Omaha, NE

» Field Manager. In-pipe acoustic inspection of an 8-inch dryweather force main (2,400 LF) and a 16-inch wet-weather force main (2,400 LF). PICA Pipers® multi-sensor inspection technology was used to measure acoustics, identify air/gas pockets, pressures, blockages and debris, and wall thickness. Engineering analysis was performed, and recommendations were provided for additional inspections using Broadband Electromagnetic Inspection, restoring hydraulic capacity using pigging, and developing a monitoring and inspection technologies program. There was no overwhelming evidence that there could be another force main break in the next 5-10 years.

Hoberg Force Main Assessment, Joliet, IL

» Field Manager. Acoustic in-pipe inspection of 10,000 LF of aging ductile iron and PVC force main to determine if leak sites exist, conducted using the MTA Pipe-Inspector. This was the first step in determining the best maintenance approach for the pipeline that had a recent history of breaks and required emergency repairs. The force main was originally built in 1988 as a 6,045 LF, 8-inch PVC force main. It was extended in 1999 with the addition of 2,745 LF of 10-inch ductile iron pipe, and again in the mid-2000s adding 1,325 LF of 10-inch PVC pipe. Following upgrades at the lift station, three known breaks required emergency repairs on the ductile iron portion of the force main. The tetherless device was located at the beginning of the journey through the force main and at key locations along its path. The Pipe-Inspector is a tetherless device equipped with an accelerometer to correlate observations and locate distances between these points. The inspection identified a number of air pockets (pre-leak indicators) and low leaks that correlated to observations made during the pre-inspection walk-through.



- Forcemain Inspection
- SSES
- Manhole Inspections
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title: James Smith | Technician

b. Email and Phone Number: theresa@acepipe.com | 816.241.2891

c. Project Assignment: Forcemain Inspection/SSES/ Manhole Inspections

d. Name of firm with which associated: Ace Pipe Cleaning

e. Years' experience: With the firm: 9/With other firms: 0 f. Education:

N/A

g. Active registration: 2014, ACP, MACP, LACP OSHA 10 Certification 15-004761012 2018, Confined Space Certification Hazwoper Certified 078641331020 10-10-2020

h. Other Experience and Qualifications relevant to the proposed project:

Mr. Smith has been with APC since 2013. James is qualified to perform PACP, MACP, and LACP CCTV work and is also trained to perform joint grouting.

- City Wide Clean & TV for Overflow Control Program
 Project 60810049 / Contract 1277-1, Kansas City, MO
 - » Project scope included Cleaning of 6-72" Combined Sewer and PACP CCTV of 6-72" Combined Sewer. Two Subcontractors (MBE and WBE) assisted the team and provided daily crews for cleaning, televising and data review as well as manhole opening and locating. This contract was valued at \$3.3 M and ocurred from 2016-2021.
- City Wide Clean & TV for Overflow Control Program

 Project 60810049 / Contract 1277-, Kansas City, MO
 - » Project scope included Cleaning of 6-72" Combined Sewer and PACP CCTV of 6-72" Combined Sewer. Two Subcontractors (MBE and WBE) assisted the team and provided daily crews for cleaning, televising and data review as well as manhole opening and locating. This contract was valued at \$4.1M and ocurred from 2014-2016.

SARP10 Phase IV Nonconnah South, Memphis, TN

- » Sonar, CCTV, Normal and Heavy Cleaning and remote trimming of protruding taps. Approximately 100,000 LF of 6-inch to 24-inch sewer working as a subcontractor to TREKK Design Group, LLC. This contract was valued at \$383,623.46 and occurred in 2016.
- 2018 & 2019 Evaluation and Rehabilitation of Wastewater Collection System, Joplin, MO
 - » Project scope included the evaluation of gravity sewer lines and manholes using CCTV inspection equipment, rehabilitation of gravity sewer lines utilizing the installation of cured-in-place pipe (CIPP), rehabilitation of manholes utilizing the application of a cementitious liner, and the rehabilitation of lateral connections by installing trenchless lateral connection repairs (LCR). This contract was valued at \$995,916 and occurred from 2018-2020.

- CIPP
- Manhole Inspections
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development gravity sewer projects
- Low pressure sewer projects



a. Name and Title: Jenna Niebuhr, PE | Project Manager

b. Email and Phone Number: jniebuhr@idexcorp.com | 314.954.6483

c. Project Assignment: Manhole Inspections, Flow d Water Testing, Data Analysis f. Education:

BS | 1997 | University of Missouri - Rolla | Civil Engineering

Monitoring, Smoke and Dyed Water Testing, Data Analysis

d. Name of firm with which associated: ADS Environmental Services

e. Years' experience: With the firm: 8/With other firms: 0 g. Active registration:2004, Professional Engineer2008, Leadership in Energy and Environmental Design

h. Other Experience and Qualifications relevant to the proposed project:

Ms. Niebuhr has been with ADS Environmental Services since 2017, and currently serves as Project Manager based out of the Bridgeton, Missouri office. In this role, she is responsible for the effective planning, delegating, coordinating, staffing and management of projects through the Missouri and Kansas areas of the Midwest Region. Success in this role is achieved through effective communication and coordination with the client, all local office personnel, engineers and Business Development Managers. Ms. Niebuhr's primary responsibility has been the management of the St. Louis MSD Flow Metering and Monitoring program but is also responsible for several other long-term and temporary flow monitoring networks in and around the St. Louis, MO and Topeka, KS Metropolitan areas. Prior to joining ADS, Ms. Niebuhr was a Principal Engineer for the St. Louis Metropolitan Sewer District from 2013 to 2017. In this role Ms. Niebuhr was responsible for all aspects of the annual flow monitoring program. Ms. Niebuhr also served as a Project Manager for Civil Design, Inc., from 2004 to 2013. As PM she was responsible for Flow Monitoring projects, SSES programs, Private Inflow Reduction (PIR) projects and CSO inspection efforts.

- Johnson County Wastewater, Johnson County, Kansas
 - » Project Manager responsible for the pilot study, installation, and training of JCW staff to maintain, troubleshoot, and relocate the ADS' ECHO level monitoring network.

St. Louis Metropolitan Sewer District – Flow Monitoring Program, St. Louis, MO

- » Project Manager responsible for the data collection, analysis, review, and finalization of data collected from the long-term and temporary flow monitoring network averaging 300+ sites annually. Responsibilities also included close coordination with the District to provide any deliverables for regulatory compliance.
- St. Louis Metropolitan Sewer District Critical Infrastructure Program, St. Louis, MO
 - » Project Manager responsible for the collection and analysis of data from the District's SSO sites collected for the current Critical Infrastructure project.
- City of Topeka Long-term Monitoring Network, Topeka, KS
 - » Project Manager for long-term metering network for over 30 sites performing data analysis and web-based reporting for the City.

- Village of Godfrey (Illinois American Water), Godfrey, IL
 - » Project Manager for multiple temporary flow-monitoring projects, performing data analysis, as well as providing webbased reporting, and final data sets.
- City of Jerseyville (Illinois American Water), Jerseyville, IL
 - » Project Manager for temporary flow-monitoring, performing data analysis, as well as providing web-based reporting, and final data sets.
- Rock Creek Public Sewer District, Arnold, MO
 - » Project Manager for multiple temporary flow-monitoring, performing data analysis, as well as providing web-based reporting, and final data sets.



- Manhole Inspections
- Flow Monitoring
- Smoke and Dyed Water Testing
- Data Analysis
- Accredited Professional (LEED AP)



a. Name and Title: Dan Packard, PE | Structural Engineer

b. Email and Phone Number: dan@packardstructuralengineering.com | 816.767.7222

c. Project Assignment: Structural Engineer f. Education:

BS | 1980 | University of Colorado - Boulder | Civil Engineering

d. Name of firm with which associated: Packard Engineering

e. Years' experience:

With the firm: 24/With other firms: 18

g. Active registration: 1990, Professional Engineer

h. Other Experience and Qualifications relevant to the proposed project:

Daniel J. Packard, d.b.a. Packard Engineering, has provided Structural Engineering as a consultant since 1980. Services include analysis; design; feasibility study; peer design review; report writing; AutoCAD; specification review/writing and construction review for framing and foundation systems.

Structure project work includes new construction; renovations; additions and repairs/lifts. Typical materials used include structural steel (including steel brackets/piers/piles/tie-backs/soil-nails); structural aluminum; reinforced concrete; reinforced masonry; and wood lumber/timber. Past vertical structures/buildings were for offices, recreation, education, medical, hotel/motel, parking, industrial/ manufacturing, religious services, treatment plants and multi-plex/custom residential. Previous horizontal structures have been for water/wastewater treatment plants, solar panels, poles/towers, bridges, culverts, retaining walls, tanks/basins, municipal pools and aquatic facilities.

Northeast Area and Gooseneck Creek Neighborhood Sewer Rehabilitation, Kansas City, MO

» As subconsultant to Lamp Rynearson, Dan provided structural engineering for the KCMO Northeast Area and Gooseneck Creek Neighborhood Sewer Rehabilitation project. This project included collection system risk analysis, review of over 400,000 linear feet of CCTV inspection, smoke testing, dyed water testing and manhole inspection data.

Louisburg Wastewater Treatment Plant , Louisburg, KS

- » As subconsultant to Lamp Rynearson, Dan provided structural engineering for the Louisburg Wastewater Treatment Plant project. Structural work includes new construction, renovations, additions, repairs, peer design review, feasibility/ condition analysis, and review/report. Materials used include: structural Steel, structural aluminum, mild-steel reinforced concrete, precast/pre-stressed concrete, mild-steel reinforced masonry and wood/timber.
- Sanitary Sewer Cradles and Encasements for Conflicts at Roe Lane and Southridge St, Roeland Park, KS
 - » As subconsultant to Lamp Rynearson for their on-call engineering contract with the City of Roeland Park, Dan provided structural engineering for sanitary sewer cradles and encasements for conflicts at Roe Lane and Southridge St.

South Lift Station and Storage Tank, Gardner, KS

» As subconsultant to Lamp Rynearson, Dan was Responsible for structural engineering on the South Lift Station and

Storage Tank in Gardner, KS. This project scope included reviewing the City's existing lift station and designing improvements to upgrade the discharge flow from the facility as well as providing a ground storage tank for sanitary sewer surges to the station. Construction phase services were also provided by Lamp Rynearson including the review of shop drawings by the contractor and responding to requests for information throughout the design process.

Crane foundation for Fiddler's Ridge Lift Station, Weston, MO

» As subconsultant to Lamp Rynearson, Dan was Responsible for structural engineering on the crane foundation for the Fiddler's Ridge lift station in Weston, MO. This project was part of a long time on-call city engineering contract between the City of Weston and Lamp Rynearson.

Casing Pipe for Naismith Valley Interceptor Tunnel, Lawrence, KS

» Dan provided structural engineering for casing pipe for Naismith Valley's Interceptor Tunnel in Lawrence, KS.

- Structural engineering on wastewater projects
- Existing infrastructure rehabilitation, repair, and improvements projects
 - New development gravity sewer projects
 - Low pressure sewer projects
- AutoCAD
- Construction review
- Familiarity with stuctural provisions of current International Building Code



e. Years' experience: With the firm: 15/With other firms: 9 2006, LEED Accredited Professional BD+C

h. Other Experience and Qualifications relevant to the proposed project:

David's career has provided the opportunity to provide project management and design of electrical systems for a variety of project types, including commercial, educational, public, hospitality, industrial, correctional, convention, hospitality and retail facilities. His project experience includes both new and renovation work and he typically follows his projects through from design conception to construction completion.

David provides significant leadership for PKMR in the areas of electrical and information technology as well as project management. His strengths are maintaining relationships and providing excellent client communication and project collaboration.

2021 CARS - Webster St., Spring Hill, KS

» As subconsultant to Lamp Rynearson, and part of their on-call City Engineering contract with the City of Spring Hill, David provided electrical/mechanical engineering for the 2021 CARS - Webster St. project in Spring Hill, KS. This project also included design, survey, and construction observation services. Concrete replacement, longitudinal joint repairs, pedestrian improvements for ADA compliance, macrotexturing and placement of Ultrathin Bonded Asphalt Surface (UBAS) and new pavement markings were included.

Louisburg Wastewater Treatment Plant, Louisburg, KS

» As subconsultant to Lamp Rynearson, David provided electrical/mechanical engineering for the Louisburg Wastewater Treatment Plant project. Design services by Lamp Rynearson included a new biological nutrient removal wastewater treatment facility that replaced two existing aerated lagoon treatment systems. A new pump station was installed at one lagoon that pumped flow from that facility to the new treatment facility, which was located at the second lagoon site. Portions of both lagoons were retained in service for peak flow and sludge storage.

Wastewater Treatment Plant Improvements, Leeton, MO

» As subconsultant to Lamp Rynearson, David provided electrical/mechanical engineering for the Wastewater Treatment Plant Improvements in Leeton, MO. This project improved existing wastewater treatment plant with new Nitrox and UV system. Lamp Rynearson rovided the design of a well structure to transfer flow from basin to treatment system and performed hydraulic analysis to ensure flow can move through the treatment systems sufficiently.

Wastewater Treatment Plant Improvements, Lake Lotawana, MO

- » As subconsultant to Lamp Rynearson, David provided electrical/mechanical engineering for the Wastewater Treatment Plant Improvements in Lake Lotawana, MO, Lamp Rynearson performed construction phase engineering services, specifications and submittal review, and simulated existing facilities and proposed improvements in Biowin modeling software.
- Headworks and Influent Pump Station Design & Construction, Kearney, MO
 - » As subconsultant to Lamp Rynearson, and part of a long time on-call city engineering contract with the City of Kearney, MO, David provided elctrical/mechanical engineering for the Headworks and Influent Pump Station Design project in Kearney, MO. The new wastewater treatment plant headworks included influent pumps, grit removal and a perforated screen.

Swimming Pool Renovation, Fairway, KS

» As subconsultant to Lamp Rynearson, David provided electrical/mechanical engineering for the renovation of the swimming pool at Fairway, KS. Aging mechanical equipment, sanitary upgrades, a new bathhouse and a shallow water addition were addressed. Now completed, the bathhouse is a modern facility with ample area for changing, staff, concessions and gatherings.



- Existing infrastructure rehabilitation, repair, and
- New development pump stations
- Low pressure sewer projects



a. Name and Title: Will Kent, PE | Principal

b. Email and Phone Number: will.kent@pkmreng.com | 913.492.2400

c. Project Assignment: Lead Mechanical Engineer f. Education:

BS | 1993 | Kansas State University | Architectural Engineering

d. Name of firm with which associated: **PKMR**

e. Years' experience: With the firm: 21/With other firms: 2 g. Active registration: 1993, Professional Engineer

h. Other Experience and Qualifications relevant to the proposed project:

With twenty two years of experience in project management and design for new and renovated facilities, Will is well suited to many types of projects. Many of his projects have been renovation projects which require a high amount of coordination and engineering to be maintained within budget. He has extensive experience in the educational market. Additionally, his experience includes: churches, restaurants, office buildings, retail stores, recreational facilities, post offices, banks, and assisted living and nursing. He has also worked with the Corps of Engineers, National Guard and US Army. Will was a past President of the Topeka Section of ASHRAE.

City Hall Renovation, Roeland Park, KS

» As subconsultant to Lamp Rynearson, and part of their on-call City Engineering contract with the City of Roeland Park, David provided electrical/mechanical engineering for the renovation of City Hall. This project also included design, survey, and construction observation services.

Louisburg Wastewater Treatment Plant , Louisburg, KS

» As subconsultant to Lamp Rynearson, David provided electrical/mechanical engineering for the Louisburg Wastewater Treatment Plant project. Design services by Lamp Rynearson included a new biological nutrient removal wastewater treatment facility that replaced two existing aerated lagoon treatment systems. A new pump station was installed at one lagoon that pumped flow from that facility to the new treatment facility, which was located at the second lagoon site. Portions of both lagoons were retained in service for peak flow and sludge storage.

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- Mechanical engineering
- Existing infrastructure rehabilitation, repair, and improvements projects
- New development pump stations
- Low pressure sewer projects

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Team Experience Matr	ix							nents		ty Enhar				_						ering	
Our team's experience aligns with the experience requested in JCW's RFP. Below is a matrix acknowledging this experience.	New Development Sewers	Future Service Expansion Studies	Collection System Asset Management	Manhole Inspection and Renewal	Pipe Inspection and Renewal	Stream Crossing Imnprovements	Force Main Inspection	Existing Sewer Infrastructure Improvem	Pump Station Improvements	Wet Weather Management and Capacit	Private I/I Support	Backup Prevention Program Support	Flow Monitoring, Data Analysis	Smoke Testing and Dyed Water Testing	Survey, GIS, and Easements	Construction Phase Services	Regulatory Engagement Support	Public Involvement	Quality Assurance/Quality Control	On-Call Plan Review/On-Call City Engine	Landscape Architecture/Planning
Tony O'Malley, PE, ENV-SP	\square	\square	\square	\square	\square	\square		\square	\square	\square						\square	\square	\square	M		
Laura Gray, PE, ENV-SP																					
Jon Shellhorn, PE																				<u> </u>	
Andrew Conard, PE, ENV-SP																					
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Ann Frame Hertzog & Team																					
ADS																					
Jenna Niebunr, PE & Leam													\square								
Packard Engineering								,													
Dan Packard, PE																					
PKMR																					
David Deatherage & Team	4																				

Permit Experience Matrix

Our team's permit experience aligns with the experience requested KDOT Highway Crossing in JCW's RFP. Below is **KDHE** Sewer Extension a matrix acknowledging Land Disturbance Erosion Control this experience. City Applicable Kansas NOI Section 404 Section 401 Lamp Rynearson \square \square \square \square \square $\overline{\mathbf{V}}$ \square \square Tony O'Malley, PE, ENV-SP \square \square \square \square \square Laura Gray, PE, ENV-SP \square \square Jon Shellhorn, PE $\overline{\mathbf{N}}$ $\overline{\mathbf{N}}$ $\overline{\mathbf{N}}$ $\overline{\mathbf{N}}$ Andrew Conard, PE, ENV-SP \square Greg Kendall, PE, ENV-SP \square \square \square \square \Box $\Box \Box \Box \Box \Box$ Dan Miller, PE \square \square \square \square \Box Dan McGhee, PE, ENV-SP Amy Bunnell, PE, ENV-SP \square \square \square \square \square Greg Van Patten, PE \square Grant Zebold, PE \square $\Box \Box \Box$ \square \square Anh Le, EIT \square \square \square \square Mike McIntosh, PE, CFM \square \Box Scott Oswald, PE, ENV-SP \square Sam Howland, PLA, ASLA \square \square $\Box \Box \Box$







Experience Directly Relevant to JCW Sanitary Sewer Collection System:

- ✓ Existing infrastructure rehabilitation, repair, and improvements
- ✓ Construction phase services
 ✓ CCTV



a. Project Name & Location Sanitary Sewer System Rehabilitations, Kansas City, Missouri

b. Completion Date (Actual or Estimated) December 2020

Estimated Cost (in thousands)

d. Entire Project \$31,000 (Construction Cost for all Projects)



ouri		c. Project Owner's Name & Address City of Kansas City, MO Water Services Department 4800 E 63rd St. Kansas City, MO 64130
or E	stimated)	
ds)		f. Project Owner's Contact Person,
	e. Work for Which Firm Was/Is Responsible	Title, & Telephone Number Nicki Chestnut KC Smart Sewer Project Manager Taliaferro & Browne, Inc. 816.283.3456
	Cumulative 75% (Client mandated 25%	Email: nchestnut@tb-engr.com

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project

These projects were part of Kansas City Missouri's Smart Sewer negotiated Federal Consent Decree Program. These projects included repair of small diameter sewers in a combined sewer area to reduce the quantity of flow entering the system, reduce backups and overflows and improve water quality and public health.

Town Fork Creek Combined Sewer Evaluation and Rehabilitation

Lamp Rynearson evaluated field inspection data provided by WSD and smoke and dyed water testing completed by our project team to identify and quantify structural deficiencies. Field data included:

- 300,000 linear feet of CCTV and smoke testing
- 2,250 manhole inspections

Assets prioritized for rehabilitation were those with high quick structural ratings and were above the first storm inlet point. Construction plans and specifications as well as RPR services were provided by Lamp Rynearson for the \$13 Million project which included:

- 511 open cut repairs
- 5,000 feet of pipe bursting
- 88,000 feet of CIPP
- 140 manholes rehabilitated
- 500 lateral liners

Northeast Area and Gooseneck Creek Combined Sewer Evaluation and Rehabilitation

Lamp Rynearson was hired to evaluate field data provided by the WSD and 400,000 feet of smoke testing completed by our team to identify and quantify structural deficiencies, on 6 to 12-inch sewer mains, associated manholes, and other structures. Final recommendations prioritized repair of assets with a high risk of failure and a high consequence of failure as well as under-sized line segments. Priority was also given to assets in poor condition above the first storm inlet. The area was divided into two construction projects and our team produced two sets of construction plans and specifications. Lamp Rynearson staff also provided construction phase services including contract administration and full-time construction observation on the two \$9 million-dollar contracts.

- 522 open cut repairs
- 10,000 feet of pipe bursting
- 120.000 feet of CIPP
- 150 manholes rehabilitated
- 1,400 lateral liners

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Tony O'Malley, PE, ENV-SP – Office Leader, QA/QC Laura Gray, PE, ENV-SP – Project Manager Jon Shellhorn, PE– Project Engineer Andrew Conard, PE, ENV-SP – Project Engineer Mike Deboer – GIS/360 Manhole Scanning Kenny Jones – Construction Observation Anh Le, EIT – Project Engineer Grant Zebold, PE – Project Engineer



a. Project Name & Location **2021 Sanitary Sewer** Rehabilitation, Raytown, Missouri

b. Completion Date (Actual or Estimated) 2022

- d. Entire F
- \$1.500



c. Project Owner's Name & Address City of Raytown, MO 10000 East 59th Street Raytown, MO 64133

Estimated Cost (in thous	ands)	f. Project Owner's Contact Person,
d. Entire Project \$1,500	e. Work for Which Firm Was/Is Responsible 75%	Title, & Telephone Number Stephanie Boyce Public Works Director 816.358.4100 City of Raytown, MO Email: stephanieb@raytown.mo.us Jose Leon Director of Operations & Maintenance Johnson County Wastewater 913.715.8500 Email: Jose Leon@icw.org

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project (Please give quantitative indications wherever possible)

The 2021 Sanitary Sewer Rehabilitation Project utilized new methodology for the project area selection and

Experience Directly Relevant to JCW Sanitary Sewer Collection System:

- ✓ Existing infrastructure rehabilitation, repair, and improvements
- $\sqrt{}$ Stream Crossing Improvements
- Asset Management
- ✓ Hydraulic Modeling

plan production. The project area was selected by the city utilizing new data analysis and artificial intelligence processes developed by NEER. After PACP data was collected along with CCTV, the data was compared with NEER and was found to have a high correlation. The NEER data had a 92% correlation with-PACP. Only 8% of the line segments were considered 'false negatives, where the AI had underestimated the severity of the pipe condition.' This strong correlation presents an opportunity to save money being spent on field inspections to identify and prioritize future project areas.

Lamp Rynearson Engineers created a new plan production process using ArcGIS Pro software to accelerate the project and cut the cost of plan production by half. This highly efficient plan production process was achieved by utilizing map series layouts, batch processes, and programming. This project included:

- 27 open cut repairs
- 21,650 feet of CIPP
- 70 lateral liners
- 10 manholes rehabilitated

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Laura Gray, PE, ENV-SP - Project Principal Andrew Conard, PE, ENV-SP – Project Manager Dan Miller, PE - On-Call City Engineer Grant Zebold, PE - Project Engineer Anh Le, EIT - Project Engineer

Mike Deboer - GIS Specialist Scott Morrow - Project Designer Kenny Jones - Construction Observer Elango Thevar - NEER; Modeling Analysis



a. Project Name & Location North of the River Inflow & Infiltration, Phase 1 Buckeye, Kansas City, Missouri

b. Completion Date (Actual or Estimated) Bid date May 2025 (estimated)

Estimated Cost (in thousands) f. Project Owner's Contact Person, Title, & Telephone Number e. Work d. Entire Project Reza Zonooz | Project Manager \$12,500 Est. for Which 816.513.0454 Firm Was/Is Email: Responsible Reza.Zonooz@kcmo.org Cumulative 75% (Client mandated 25%

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project (Please give quantitative indications wherever possible)

MBE/WBE)

This project is included in the Federal Consent Decree for the City of Kansas City, Missouri's Overflow Control Program. The project is intended to reduce Inflow and Infiltration (I & I) flows in the sanitary sewer system by implementing rehabilitation in a generalized area North of the River, including the Buckeye Creek Area as Phase 1. The City contracted with Lamp Rynearson to provide the necessary professional services which include:

- Project Management and Administration
- Public Involvement and Coordination
- Flow and Rainfall Data Analyses
- Smoke Testing & Dyed Water Testing
- Field Data Evaluations and Rehabilitation Recommendatic
 Development of Construction Contract Drawings and
- Limited Specifications
- Work Tracking Application
- GIS Update
- Bid Phase Service

Experience Directly Relevant to JCW Sanitary Sewer Collection System:

- ✓ Existing infrastructure rehabilitation, repair, and improvements
- ✓ Flow monitoring data analysis
- ✓ CCTV review

Specific project activities included collection of field data (smoke and dyed water testing). Public notifications as well as the field work were performed by a subconsultant. Other field data provided by the client included:

- Flow monitoring data of 8 sites in the project area
- CCTV of 260,000 LF of Sanitary Sewers diameters 8-inch to 36-inch
- Field inspection data of 1,200 manholes
- Water in Basement complaint records
- City work orders

Field data was analyzed and results were presented in two

reports: a Flow and Rainfall Monitoring Data Analysis Report followed by a Preliminary Design Report. The repair recommendations in the report were selected using a ranking system based on the cost-effectiveness to remove I & I measured in \$/gpd. The anticipated construction budget for the project is \$12.5M. It is currently in design and is anticipated to go out to bid in 2025.

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Tony O'Malley, PE, ENV-SP – Office Leader, QA/QC Laura Gray, PE, ENV-SP – Project Manager Andrew Conard, PE, ENV-SP – Project Engineer Anh Le, EIT – Project Engineer Grant Zebold, PE – Project Engineer Mike Deboer – GIS/360 Manhole Scanning



c. Project Owner's Name & Address

City of Kansas City, MO

4800 E 63rd St. Kansas City, MO 64130

Water Services Department

	Natio Par L Sever Farmin
8	
	Date (I)



a. Project Name & Location **Nicholas Street Sewer Extension Phases 1-3, Omaha,** Nebraska

b. Completion Date (Actual or Estimated) 2016 Estimated Cost (in thousands)

Estimated Cost (in thous	Estimated Cost (in thousands)		
d. Entire Project \$20,000	e. Work for Which Firm Was/Is Responsible 100%	& Telephone Number Jim Theiler Assistant Director for Environmental Services 402.444.5225 Email:	



c. Project Owner's Name & Address City of Omaha, NE 1819 Farnam Street 6th Floor Omaha. NE 68183

heiler | Assistant tor for Environmental Ces 44.5225 il: james.theiler@cityofomaha.org

g. Scope of Entire Project and h. Nature of Firms Responsibility in **Project**

Lamp Rynearson was contracted by the City of Omaha to lead the Nicholas Street Sewer Extension Phase 1-3 projects, which provided a further extension of sanitary and storm sewers previously designed by our firm in phase 1. Phase 1 extended three 108" diameter storm sewer pipes and a 24" sanitary pipe through an urbanized industrial corridor north of Nicholas Street. Phase 2 provided combined sewer overflow relief to the north downtown area of Omaha, Nebraska, in accordance with the city's long-term control plan approved by the Environmental Protection Agency. Tasks included design and construction engineering services.

Due to the required depths for both the storm and sanitary sewers, pilot tube microtunneling and traditional bore-and-jack techniques were used to meet depth requirements without impacting surrounding infrastructure. One significant challenge included tunneling storm sewer under the City's Sewer No. 2, an old three-ring, 96" brick combined sewer.

Experience Directly Relevant to JCW Sanitary Sewer Collection System:

- √ New Development Sanitary Sewer
- Wet-Weather Storage
- Tunneling linstallation $\sqrt{}$



This project extended one 108" to 54" diameter storm sewer pipe and one 24" diameter sanitary sewer pipe though an urbanized industrial corridor, Kellom Greenbelt and single-housing residential neighborhoods. It eliminated one lift station at 20th and Charles and converted a second lift station at 23rd and Grace into a gravity sanitary trunk sewer.

These extensions will help improve water quality through sewer separation and will alleviate basement backups and street flooding issues in the North Downtown area.

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Mike McIntosh - Project Manager Dave McIvor - Senior Construction Engineer Mike DeBoer - GIS Specialist Scott Oswald - Senior Project Engineer Jon Shellhorn, PE - Project Engineer



a. Project Name & Location New Development Sanitary Sewer Projects, Kearney, Missouri

b. Completion Date (Actual or Estimated) 2019

2019		
Estimated Cost (in thousands)		f. Project Owner's Contact Person,
d. Entire Project >\$5,000 (cumulative)	e. Work for Which Firm Was/Is Responsible 100%	Jitle, & Telephone Number Jim Eldridge City Administrator 816.628.4142 Email: jeldridge@kearneymo.us

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project (Please give quantitative indications wherever possible)

For almost 30 years, Lamp Rynearson has provided engineering services for the City of Kearney to address their wastewater and water system needs. Our sanitary sewer collection system work has included the following:

Lamp Rynearson completed a Sewer System Master Plan for the City of Kearney, which included a planning area of approximately 30 sections of land in and around Kearney, Missouri. The study established a basis of design for the ultimate development of the Fishing River and Clear Creek Drainage areas. Each watershed was broken down into sub-drainage areas. The design population density for the drainage areas was estimated at 10 people per acre for sizing the sewers. The acreage, ultimate population, estimated sewage flow and sewer size were developed to serve the entire planning area.

Experience Directly Relevant to JCW Sanitary Sewer Collection System:

- ✓ Existing infrastructure rehabilitation, repair, and improvements
- $\sqrt{}$ New Development Sewers
- $\sqrt{}$ Service Expansion Studies
- ✓ Regulatory Engagement Support
 ✓ Construction Phase
- Services

As a result of the planning study, Phase I of the West Creek Sewer, which was completed in 2004, was constructed to serve a portion of the Fishing Creek Watershed. The \$1.7 million interceptor sewer, which included approximately 13,000 linear feet of 24" and 27" diameter interceptor sewer and creek and interstate highway crossings, provided the City of Kearney with the ability to serve patrons west of Highway I-35. Phase II of the interceptor allowed decommissioning of two lift stations and opened up a 1,700 acre area on the northwest side of the City to new development. Design of Phase II of the interceptor was completed by our firm in 2018 and construction of the 8,840

2en Developmen

c. Project Owner's Name & Address

City of Kearney, MO

PO Box 797 Kearney, MO 64060

feet of 8" through 24" PVC sewer completed in 2019.

Lamp Rynearson provided regulatory engagement support, assisting with construction permitting with Missouri Department of Natural Resources and the United States Army Corps of Engineers. Construction phase services included on-site RPR, review of submittals, applications for payment, and final inspection.

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Tony O'Malley, PE, ENV-SP – Office Leader, QA/QC Laura Gray, PE, ENV-SP – Project Principal, QA/QC Greg Kendall, PE, ENV-SP – Senior Project Manager Jon Shellhorn, PE – Project Manager Andrew Conard, PE, ENV-SP – Project Engineer Anh Le, EIT – Project Engineer

Experience Directly Relevant to JCW Sanitary Sewer **Collection System:**

- New development gravity sewer
- CCTV review
- Hydraulic modeling

a. Project Name & Location

Lower Blue River Basin Relief **Sewer; Hardesty Avenue and** 31st Street, Kansas City, Missouri

b. Completion Date (Actual or Estimated) 2024 (Currently in design)

Estimated Cost (in thousands)

d. Entire Project Cost \$6,700 (Estimated) (Construction); \$5,400 (Design)

e. Work for Which Firm Was/Is Responsible Cumulative 75% (Client mandated 25% MBE/WBE)

2en Developmen

c. Project Owner's Name & Address

City of Kansas City, MO Water Services Department 4800 E 63rd St. Kansas City, MO 64130

f. Project Owner's Contact Person, Title, & Telephone Number

Ben McCabe | Assistant Public Works Director 816.719.4999

Email:

ben.mccabe@kcmo.org*

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project (Please give quantitative indications wherever possible)

This project is a component of the larger consent degree being enforced by the Environmental Protection Agency (EPA) on the City of Kansas City, Missouri (the City). The project reviewed approaches to remove more sanitary sewer flow from the combined sewer system. The project was a comprehensive review of the existing infrastructure and design of a new sewer to address deficiencies and meet mandated flow capacity requirements. Existing infrastructure components consisted of a basis of design memorandum reviewing the condition of the existing infrastructure. This was accomplished through review of 34 manhole inspections and CCTV of approximately 6000-feet of sewer ranging in size from 8-inches to a triple-6'0"x6'0" box sewer. Field services was performed as part of a separate contract with the City.

Design consisted of modeling to determine rainfall event impacts on flow quantity, appropriate sizing of new sanitary sewer pipe and review of conflicts with landowners and existing utilities. The sanitary sewer was installed to minimize impacts to the surrounding commercial and industrial sites while providing an approach that would meet EPA requirements.

The project consisted of conceptual and preliminary study and design, final design and construction phase services. The project consisted of the installation of over 3,000-feet of the combination of 36, 42 and 48-inch pipe with a flow capacity of a minimum of 64 MGD. The project also included the construction of a grit structure to allow for removal of large debris and material located at the connection point to the existing combined system. Connection of the sanitary system at the north end was accomplished by an installed weir and rectangular box connection. Connection at the south end was at the Blue River Interceptor.

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Laura Gray, PE, ENV-SP - Project Manager Anh Le, EIT - Project Engineer Jon Shellhorn, PE – Lead Project Engineer

Scott Morrow - Project Technician

*Leaving KCMO and starting a new position after 8/12/2022. Phone number is personal mobile and is active.



Experience Directly Relevant to JCW Sanitary Sewer **Collection System:**

 $\sqrt{}$ Existing infrastructure rehabilitation, repair, and improvements

LampRynearson.com

✓ Field services



a. Project Name & Location

Field Services

St. Louis, Missouri Indianapolis, Indiana Hot Springs, Arkansas



b. Completion Date (Actual or Estimated) Ongoing Ongoing 2008 - ongoing

Estimated Cost (in thousands)

d. Entire Project \$2,200 (St. Louis, MO)

\$1,500 (Indianapolis, IN)

\$6,820 (Hot Springs, AR)

e. Work for Which Firm Was/Is Responsible 100% (all projects)

Utilities Director rkauffman@stlmsd.com 501.651.7730 Derek SuttonSupervisor of System Modeling 317.927.4322 DSutton@CitizensEnergyGroup.com

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project

St. Louis MSD's Flow Monitoring Program

St. Louis MSD's flow monitoring program is based on the experience and knowledge of ADS as a trusted advisor and partner. Pipe sizes in the District's separate system have ranged from 8 to 72-inches, while pipe sizes in the combined system as large as 32-feet in diameter were successfully metered using special flow meter technologies. Average temporary monitoring project each Spring ranged from 120 to 240 days, depending on the rainfall amounts experienced during the metering period.

Long-Term and Temporary Flow Monitoring

In 1988, ADS assisted the City of Indianapolis (Citizens Energy Group) with Long-Term and Temporary flow monitoring providing equipment, maintenance, analysis, and reporting services. Today's program includes 60 flow meters, 90+ level meters, and 21 rain gauges being used for capacity studies, RDII analysis, billing, CSO alarming, model calibration and system maintenance. Over the past three years, ADS has supported their hydraulic model expansion with ~70 flow meters installed in nine (9) separate project areas for ~3 months each. Data has been collected from over 600 locations during that time.

Flow/Rainfall Monitoring, Manhole Inspections, Smoke & Dye Testing, and CCTV Review The City of Hot Springs. in compliance with an ADEQ/EPA Consent Administrative Order (CAO) initiated a program to address recurring sanitary sewer overflow (SSO) violations—a rate of 18 reported SSOs per 100 miles of sewer. RJN Group, Inc. worked with the City to develop a targeted program to identify capacity issues leading to SSOs with a goal to eliminate all wet-weather SSOs under the CAO design storm event. Using a combination of I/I reduction measures and capacity improvements. The Sewer Evaluation and Capacity Assurance Plan (SECAP) identified mitigation improvements with an estimated cost of \$68.000.000.

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Randy Brodner, PE Maxwell Compton, PE James Smith



c. Project Owner's Name & Address

St. Louis Metropolitan Sewer District 2350 Market Street, Walnut Pl St. Louis, MO 63103

Citizens Energy Group 2020 N Meridian St Indianapolis, IN 46202

City of Hot Springs, AR 133 Convention Boulevard Hot Springs National Park, AR 71901

f. Project Owner's Contact Person, Title, & Telephone Number

James Kauffman 314.335.2052

Monty Ledbetter



Experience Directly Relevant to JCW Sanitary Sewer Collection System:

✓ Low pressure sewer (LPS) system Pressure on Pressure Sure Projects

c. Project Owner's Name & Address

City of Camden Point, MO

Camden Point. MO 64018

11440 West Center Road, Suite C

101 3rd Street (City Hall)

SID 547 Timber Shores

Omaha, NE 68144

a. Project Name & Location Low Pressure Sewer (LPS) Projects,

Camden Point, Missouri Sanitary & Improvement District (SID) No. 547 of Douglas County, NE

b. Completion Date (Actual or Estimated) Ongoing (Est. Completion 2024) 2009/2023 **Estimated Cost (in thousands)**

Estimated Cost (in thousands)	f. Project Owner's Contact Person,	
d. Entire Project \$8,200 (Est.); \$579,000 (Design fee) \$1,000/\$650,000 (Construction Est.); \$250,000/\$130,000 (Design fee)	e. Work for Which Firm Was/Is Responsible 100%/ 100%	Title, & Telephone Number Mark Wagoner Mayor 816.445.3516 City of Camden Point, MO Larry Jobeun, Attorney SID 547 402.334.0700

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project

Camden Point Wastewater Facility and Collection System

In 2014, Lamp Rynearson completed a Preliminary Engineering Report (PER) for the City of Camden Point, Missouri (the City) that included an evaluation of a complete sewage collection system and treatment facility. The project design consisted of the design of a low-pressure sewer system (LPS) with grinder pumps at over 200 residences. Each connection included the removal of the septic connection, installation of a dedicated electrical panel and installation of a single submersible grinder pump. The LPS discharged to a new 80,000 gpm recirculating media filter wastewater treatment facility (WWTF).

Grading, Sanitary Sewer Collection System, and Storm Drainage Improvements SID 547

In 2007, Lamp Rynearson completed the design for a lakefront subdivision in Valley, Nebraska, including both gravity and low-pressure force main sanitary sewers with grinder pumps and a vacuum-primed lift station. The subdivision has 37 individual lots that are built on an old sand-and-gravel pit, with shallow shallow sewers both within the neighborhood and at the connection point to the interceptor sewer.

Lamp Rynearson has continued to provide engineering services to the neighborhood, generally in the form of routine maintenance inspections and coordination of periodic repairs on the sewers and streets, including significant repairs to the lift station in 2017.

In 2022, Lamp Rynearson completed the design of a new road for the subdivision, including new lowpressure force main sanitary sewer with new grinder pumps to serve three new lots, along with storm sewer and water main realignments. This project will likely begin construction in 2022 and be completed in the spring of 2023

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Assigned to the County's Project

Greg Kendall, PE, ENV-SP – WWTF Lead Engineer Tony O'Malley, PE, ENV-SP – QA/QC Jon Shellhorn, PE – LPS Lead Engineer Laura Gray, PE, ENV-SP – Project Manager Scott Morrow – Project Technician Dave McIvor, PE – Construction Engineering Lead



Experience Directly Relevant to JCW Sanitary Sewer **Collection System:**

- Existing infrastructure rehabilitation, repair, and improvements
- New development gravity sewer projects
- **On-Call Plan Review**
- $\sqrt{}$ **On-Call Inspection**



a. Project Name & Location **On-Call City** Engineerin Spring Hill, KS; L

b.	Completion	Date	(Actual	or I	Estimated)	
Ong	going				-	

Estimated Cost

d. Entire Project >\$10.000



g Services .ake Lotawana, N	10	c. Project Owner's Name & Address City of Spring Hill, KS P.O. Box 424 Spring Hill, KS 66083 City of Lake Lotawana, MO					
Date (Actual or Es	stimated)	Lucia Lotawana Rd Lake Lotawana, MO 64086					
(in thousands)		f. Project Owner's Contact Person, Title, & Telephone Number					
t	e. Work for Which Firm Was/Is Responsible 100%	Patrick Burton Community Development Director City of Spring Hill, KS 913.592.3317 patrick.burton@springhillks.gov Nick Shigouri City Administrator City of Lake Lotawana, MO 816. 578.4215 nshigouri@lakelotawana.org					

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project (Please give quantitative indications wherever possible)

Lamp Rynearson specializes in providing a wide variety of on-call city engineering services for Clients in the Kansas City Metro Region. These services can include the following:

Plan Reviews

Lamp Rynearson provides plan reviews for our on-call Clients that can include re-zoning permits, final plats and utility reviews. The utility reviews can include sanitary sewer, storm sewer, water and private utilities. We provide plan reviews from other consultants working with the respective community as well as private developers within the City. Each of these plan reviews are performed to ensure they meet all applicable codes and design standards.

Design Services

We provide a range of design phase services for communities as the need arises. The City of Spring Hill, Kansas asked us to perform work recently that included an existing sewer rehabilitation project, and the addition of disinfection to their wastewater treatment facility. The City of Lake Lotawana also recently tasked us with design of a new gravity sewer, pump station and 10,000 linear feet of forcemain to a new portion of the City. We were also tasked with the preparation of preparing an anti-degradation study in conjunction with improvements to their wastewater treatment plant.

Construction Phase Services

We provide construction phase services ranging from submittal reviews, requests for information responses and coordination with contractors. Recent work from the City of Spring Hill included on-site inspection services of eight (8) open cut point repairs, manhole inspections and the review of pipe bursting.

Standards and Specification Review

Lamp Rynearson has provided our clients with updated specifications and design standards to allow the communities to provide their residents with the best possible product whether we design it or through another consultant. We have provided code reviews to make sure the City is selecting projects that meet the current design codes.

Other tasks we have been contracted with our on-call contracts includes the following:

Surveying Services

Public Workshops

- Regulatory Interaction with both KDHE and MDNR Presentations to City Council
- Pavement Management Subsurface Utility Engineering (SUE)
- Capital Improvement Planning

i. Firm's Personnel (Name/Project Role) Who Worked on the Stated Project and Shall be Greg Kendall, PE, ENV- SP – Project Manager Dan McGhee, PE, ENV-SP – Supporting On-Call City Engineer Assigned to the County's Project

Tony O'Malley, PE, ENV-SP - Office Leader, QA/QC Laura Gray, PE, ENV-SP - Project Principal Jon Shellhorn, PE – Project Engineer Dan Miller, PE – On-Call Services - Project Manager Greg Van Patten, PE – Project Engineer/Construction Inspection Andrew Conard, PE, ENV-SP – Project Manager Grant Zebold, PE – Project Engineer Anh Le, EIT - Project Engineer



Experience Directly Relevant to JCW Sanitary Sewer **Collection System:**

- \checkmark Existing infrastructure rehabilitation, repair, and improvements
- On-call inspection
- ✓ New development
- $\sqrt{}$ Wet-weather storage



a. Project Name & Location **New Pump Station Projects** Gardner, and Louisburg, Kansas

b. Completion Date (Actual or Estimated)

2019 (Gardner), 2021 (Louisburg), 2023 (Offutt-Estimated)

Offutt Air Force Base, Omaha, NE

Estimated Cost (in thousands)

(under construction)

d. Entire Project

\$12,300 (Louisburg)

\$1,905 (Gardner)

\$27,000 (Offutt)

20^N Developmen, Shitary Sewer

ting Infrastru ary Sew

c. Project Owner's Name & Address

City of Gardner, KS 1150 E. Santa Fe Street Sarpy County NE Gardner. KS 66030

Offutt Air Force Base (Classified)

City of Louisburg, KS 215 S. Broadway Street Louisburg, KS 66053

f. Project Owner's Contact Person, Title, & Telephone Number Jeff LeMire | Utilities Senior Staff Engineer.

e. Work for Which Firm Was/Is Responsible 100%/100%/ 100%

913.856.0980 jlemire@gardnerkansas.gov Nathan Law | City Administrator

913.837.5371 nlaw@louisburgkansas.gov

Ken Hahn | President Kenneth Hahn Architects, Inc. 402.391.2111 ken@kharch.com

g. Scope of Entire Project and h. Nature of Firms Responsibility in Project

Gardner South Lift Station and Storage Tank

The South Lift Station and Storage Tank project involved the design of a 1.0 MG storage tank, new wet weather pump station, water line, new generator, and improvements to the existing facility. Lamp Rynearson worked on coordinating these design aspects to allow the City to control the flow to and from the lift station. Our wastewater experts completed a draw down test that determined the 750 gpm pumps were operating at about 270 gpm. Using Google Earth for the profile and desktop calculations, the system head was calculated, and correctly selected replacements pumps were specified and installed. The design included many aspects that reused existing infrastructure allowing the project cost to come in under the anticipated budget.

Louisburg Facility Plan BNR Wastewater Treatment Plant, and North Pump Station

The North Pump Station was designed for the City of Louisburg as part of the decommissioning of their existing lagoon based WWTP. The new pump station is responsible for the transfer of flow to the new WWTP. The pump station was comprised of three-600 gallon per minute submersible pumps that are each provided with a variable frequency drive. The pump station will serve the north drainage area of the City and will use the existing lagoons as extraneous flow basins to allow for operational flexibility. The forcemain constructed as part of this project was designed to be a 12-inch PVC main that will provide sufficient capacity for current and future flow demands.

B503, B592, AND B495 Lift Stations

Our team's work included an upgrade of two lift stations on base which were damaged from flooding in 2019. The schedule for the project was compressed and resulted in a full design delivered to the Corps of Engineers in approximately four months. The work for one of the lift stations (B495/B503) consisted of retrofitting a current lift station wetwell and building with three new 800 gpm pumps, updating their pumps from an above grade valve vault and previous suction prime configuration to a preferred submersible station with a below grade valve vault. Lift Station 592 consisted of a new submersible lift station with three-450 gpm submersible pumps located in a new wetwell. Other work associated with the overall project consisted of sanitary sewer upgrades, water distribution, storm sewer upgrades and major site grading.

. Firm's Personnel (Name/Project Role) V	Vho Worked on the Stated Project and Shall be
Assigned to the County's Project	Kellan Gregory, PLS/Easements and Construction Staking

Tony O'Malley, PE, ENV-SP/Office Leader, QA/QC Laura Gray, PE, ENV-SP/Project Principal, QA/QC Jon Shellhorn, PE/Project Manager Kenny Jones, Construction Inspection

Mike McIntosh, PE- Project Manager Dave McIvor - Senior Construction Engineer Mike DeBoer - GIS Specialist Scott Oswald - Senior Project Engineer



I. Additional Information or Resources (Form 5)

Lamp Rynearson is the Trusted Engineer for On-Call City Engineering

A partnership. Providing responsive and city-focused on-call engineering services is what we do. Communication will occur consistently, keeping you informed of progress so important project goal are met. When working with on-call contracts, a partnership between JCW and Lamp Rynearson is a must! We know that as your on-call engineer, we are part of your team, working vigilantly to discover solutions for both the technical and non-technical answers your community needs. **What you**

will see from us as an on-call partner is this:

- \checkmark Immediate response
- $\checkmark~$ Communication with JCW to determine expectations and schedules
- \checkmark Selection of the appropriate team for the job
- ✓ Adherence to JCW design criteria, KDOT, & state/federal procedures
- \checkmark Acting as an extension to JCW staff

Below is a list of communities where we currently serve as the on-call engineer, demonstrating our ability to effectively provide the services you need to improve your community.

0	Spring Hill, KS (2019-Present) Client since 1999
0	Mission Woods, KS (2017-Present)
0	Roeland Park, KS (2017-Present)
0	Raytown, MO (2020-Present)
9	Lake Lotawana, MO (2016-Present)
0	Kearney, MO (2014-Present) Client since 1990
0	Grain Valley, MO (2019-Present)
0	Excelsior Springs, MO (2017-Present) Client since 1976

Development Plan Review

Development plan review is a specialty of Civil Design Group Leader, **Dan Miller, PE.** He performs plan reviews daily for our on-call city engineering contracts with the City of Spring Hill, Kansas and the City of Lake Lotawana, Missouri. These reviews include KDHE and MDNR permitting for all public and private sanitary sewer main extensions in the area. After plans are submitted to JCW, they will be forwarded to Lamp Rynearson. We will identify appropriate team member(s) to provide detailed review of the plans. Review comments will be forwarded to Dan, who will prepare a single review comment letter to be sent to JCW. The developer will revise the plans based on the review comments and resubmit the plans for final approval. Once all comments are addressed, a Letter of Recommendation to approve the plan will be sent to JCW for the project file. Throughout the entire review process, Dan and any of our team members will be available to answer questions or to discuss the plans with the developer and JCW staff.

Survey

Scanning Technology. Lamp Rynearson has invested in scanning technology that increases efficiencies and enhances workplace safety. With our terrestrial and mobile scanners, we're able to easily scan environments that are difficult to access or have hard to reach features. These hand-held and stationary sensors are our most versatile equipment to produce 3D point clouds that can be used to create 3D representations of the scanned environment. Applications include:



Scan to see the manhole scanning at Offutt AFB!

- Confined space
- Pipe networks
- Mechanical installations

Aerial Drone

With the use of an aerial drone, high definition camera, and photogrammetry, we can help you capture the "bigger picture" for your project. Applications include:

- Large outdoor spaces
- Volumetric surveys
- Orthomosaic photos
- Construction progress monitoring
- Updated photography
- Site development and planning

Bathymetric

Sonar equipment mounted to either manned or unmanned boats gives Lamp Rynearson the ability to map the bottom of ponds, rivers, ditches, and lakes with increased accuracy.



Clients use this data to maximize their water resources. Applications include:

- Measuring reservoir capacity
- Reservoir dredging planning
- Flood inundation studies
- Bridge structure sizing
- Construction boring

Geographic Information Systems (GIS)

Our GIS team develops technically sound, long-term GIS solutions for government and private agencies. Services include: Systems Needs Assessments, Utility Mapping, 3D Mapping, Application Development, GIS/GPS Mapping & Training, CAD to GIS Conversion, Custom Cartography & Geocoding (locating).

Landscape Architecture and Planning

Outdoor spaces are full of opportunity to explore the world around us, connect with each other, relate to our surroundings, and celebrate the unique features of the land. The Landscape Architects and Planners at Lamp Rynearson are dedicated to developing beautiful, inclusive, sustainable, and functional outdoor spaces centered around the people who use them.

You want the best for your community, and so do we. Any new improvements through Johnson County that disrupt the community must be built back with the community in mind.

We combine art and science to awaken the built environment, creating beautiful, functional, and sustainable spaces everyone can access and enjoy. Our landscape architecture services elevate any project through our dynamic services including:

Land Planning

- Land is a community's most precious resource. Protecting it, developing it, and planning for its future ensures it serves its highest and best purpose for the community for years to come.
- By assessing whether land meets its current zoning requirements, studying the condition and structure of the land, and evaluating the demand present in your

community, our staff can help you find the right land for your project.

• Our planners work in partnership with municipalities and developers to determine the best use of land-from adaptive re-use, infill development to greenfield sites. Lamp can assist you with residential, mixed use, green and open space, commercial, and industrial development.

Planting Design

• Trees, shrubs, grasses, and ground cover are a critical part of ensuring your outdoor space remains a welcoming, sustainable, and beautiful space. By selecting native and non-invasive plants, our landscape architects create stunning planting designs that are environmentally responsible and easy to maintain.



Streetscapes, parkways, and walkways

 A well-designed streetscape helps your community display its unique identity and invite economic development, walkability, and connection. Our landscape architects and designers incorporate each community and neighborhood's unique character, identity, and plans for the future into their streetscape, parkway, and walkway designs.



LampRynearson.com

Sustainability

Lamp Rynearson understands the "triple bottom line" – the environmental, economic, and social impacts of our projects. Our commitment to sustainability goes beyond rhetoric as we have devoted ourselves to community sustainability projects and principles.

Our approach to infusing sustainability principles into our projects begins with thorough communication with our client to develop a clear understanding of your vision and expectations, while supporting JCW's goals to incorporate sustainability into capital improvement projects. We believe:

- Sustainability can and should be applied to all of our projects.
- Sustainable strategies are vital to good, durable design.
- Site specific variables and budgetary constraints are always key components during the early planning stages of a project to ultimately develop a comprehensive and viable sustainability approach.
- Alternate sustainable methods and materials will be identified early so that JCW can make informed choices on possible inclusion in the project.

Benefits of sustainable design practices:

- Costs and benefits are assessed over the entire project lifecycle
- · Environmental impacts and benefits are evaluated
- Ensures meaningful stakeholder input is incorporated into the project wherever feasible
- · Outcome-based objectives are used
- Higher levels of sustainability achievement are reached by considering project enhancements that may not otherwise have been considered
- · Contributes to a more equitable quality of life for all

Envision[™] Rating System

We are proud to be a sustaining member of the Institute for Sustainable Infrastructure (ISI). We assisted in developing the ISI Envision[™] rating system and have worked with the system from its pilot project stage. With 18 qualified professionals credentialed within the Envision[™] system, our firm has experience in applying Envision[™] to sanitary sewer collection system projects.

Socio-Environmental

- Environmental Justice
- Natural Resources Stewardship Locally and Globally

Social

- Standard of Living
- Education
- Community
- Equal Opportunity

Economic

- Profit
- Cost Savings
- Economic Growth
- Research and Development

Economic Social

Environmental

Natural Resources Stewardship Locally and Globally

Business Ethics, Fair Trade, and Workers' Rights

Environmental-Economic

- Energy Efficiency
- Studies/Incentives for use of Natural Resources



Sustainability

Sustainable efforts are important

to Johnson County, and also to Lamp Rynearson. Nancy Pridal, PE, CEO, shares our philosophy and environmental stance in a recent podcast, <u>Creating Value for Our</u> <u>Communities Podcast.</u>

Lamp Rynearson has been involved with Envision[™] Sustainability since its inception. As a firm we have 18 Envision Sustainability Certified individuals as identified in our resumes with the ENV-SP designation. Recent steps toward adding environmental stewardship to our project delivery is creation of our <u>"Legacy Design Guide for</u> Equity and Sustainability[™]" which is available for your review. The Design Guide provides actionable steps for our Project Managers and Engineers to include sustainability

on projects. Whether a project is submitted for certification through Envision™, our team will work with JCW to provide sustainable outcomes.





L A M P R Y N E A R S O N



Public Relations, Websites, FTP

We have an internal team that has conducted public meetings, met with City Councils/Commissions and conducted workshops for various projects. We have also further bolstered our resume with the addition of Shockey Consulting Services who has been involved in JCW projects such as the Tomahawk Creek Wastewater Treatment Facility Expansion and Nelson Wastewater Treatment Facility Improvements Project, and provides the following services:

- Finding common ground and building consensus
- Facilitating strategy, planning, and information sessions
- Building community understanding
- Developing education and outreach efforts
- Websites and FTP

Lamp Rynearson and Shockey Consulting each have experience in

the development of websites that display pertanent information regarding specific projects. We have created a <u>landing page to</u> <u>demonstrate our digital capabilities to support JCW.</u>



Wetland Assessments



In-house environmental experts help us mitigate impacts to wildlife, trees, and wetlands in our work. Wetlands assessments, when done early in a project, can save a project's budget and schedule. By determining whether a project will impact a wetland, our in-house Environmental

specialists, such as Sam Howland, PLA, can help make changes early in a project to mitigate impacts or select an alternate location before ground is broken.

In-Pipe Force Main Inspections

Internal non-destructive pipe inspections identify cracks, corrosion, coating damage, offset joints, pipe deformation, debris



accumulation, and deterioration. The primary consideration when selecting an inspection technology is the ease of inspection device insertion, material risk of pipe failure, and limiting service interruptions. We have experience working with all the major specialty in-pipe technologies, including the Ingu Pipers® device, which is easy to mobilize and captures acoustics, air/gas pockets, pressures, blockages/debris, and structural assessment data.

External Force Main Inspections

External pipe inspections typically require excavation to evaluate cracks, corrosion, erosion, or physical damage. Inspection technologies and techniques may include ultrasonic examination, electromagnetic inspections, pipe wall sampling (coupons), etc. We can use the Broadband Electromagnetic (BEM) technology to evaluate wall thickness and assess remaining useful life.



Lift Station Assessment

Lift stations serve a critical role in the healthy operation of sewer systems. Lift station maintenance issues and failures have the potential to put the system under stress and negatively impact services to community residents and businesses. The proven RJN lift station assessment process is designed to preempt issues by holistically evaluating pump performance and capacities, structural conditions, and tributary system components (i.e., force mains, downstream manholes, valves, etc.). An assessment of this type involves:

- Historical data review—existing as-builts and maintenance and operations histories, including pump curves and pump run times
- General condition assessment
- Structural assessment—wet-wells, dry-wells, valve vaults, and downstream manholes
- Operations assessment—fill-and-draw testing for each pumping configuration.
- Controls assessment—monitoring and control systems
 including installed flow meters or runtime recorders, SCADA
 connectivity and telemetry, alarming capabilities, and
 backup power and emergency controls

Asset Data Management

Internal non-destructive pipe inspections identify cracks, corrosion, coating damage, offset joints, pipe deformation, debris accumulation, and deterioration. The primary consideration when selecting an inspection technology is the ease of inspection device



insertion, material risk of pipe failure, and limiting service interruptions. RJN has worked with all the major specialty in-pipe technologies, including the Ingu Pipers® device, which is easy to mobilize and captures acoustics, air/gas pockets, pressures, blockages/debris, and structural assessment data.

RJN's Clarity® Data Management Hub is designed to facilitate and streamline the management and review of the large volumes of condition assessment and performance study data. It is a single-source, project life cycle tool providing sophisticated and customizable tools to store, view, and analyze data via 24/7 access using secure, password-protected user login credentials via standard Internet browsers.

Clarity organizes study data and results using inspection/defect site GPS coordinates. Manhole inspection, smoke testing, dye testing, CCTV, and lift station inspection results are quickly accessible using color-coded thematic maps, including photos, estimated I&I quantification rates, and defect locations. Intuitive heat maps and trending analytics bring data to life, clearly supporting planning and maintenance decisions.



Customizable Dashboards

NEER Platform offers real time wastewater collection system modeling for the continuous real time simulation. NEER has additional capabilities in forecasting dry



weather and wet weather sanitary sewer flows in the collection system upto 48-hrs. This real time model has additional capabilities to identify inflow/infiltration locations and blockages in the collection system. NEER leverages Machine Learning and state of the art Application Programming Interface (API) to bring real time SCADA and National Weather Service (NWS) weather information to forecast what will happen in the system. The figures 1 thru 3 shows the collection system map, Inflow/Infiltration locations, blockage locations, flows, velocity, and depth at specific pipe/manhole in the collection system.



ADS worked with JCW Engineering in 2020 to develop and deploy a level monitoring program utilizing our ECHO level monitoring system. The program was first piloted to prove the concept, as well as the reliability and accuracy of the ADS solution. The ADS ECHO solution not only included hardware, but our PRISM software as well. During the pilot, several applications for the ECHO system were explored, with some ECHO monitors being relocated to various parts of JCW's collection system. One example is where JCW utilized an ECHO to temporarily monitor a bypass line during a construction project in Olathe, KS. After a successful pilot of the level monitoring program, Johnson County Engineering procured seven (7) ECHO monitoring systems and began to utilize our PRISM software for data collection, data viewing, alarm notifications, machine learning, and advanced analytics. ADS has continued to support JCW Engineering throughout their level monitoring program and will continue to support their efforts going forward.


Wet Weather Storage

We have experience with providing wet weather storage solutions for several clients with varying degrees of needs. We have provided a ground storage tank solution for the City of Gardner, Relief Sewer for the City of Kansas City, and also repurposed an existing lagoon for the City of Louisburg, Kansas. Whatever the project calls for in regard to wet weather storage we can provide the modeling, design and approval for JCW.

Awards

The Louisburg, Kansas Wastewater Treatment Plant and North Pump Station Project was selected for a 2022 KC Metro Chapter APWA Public Works Project of the Year Award for Small Cities/Rural Communities in the Environment category. In 2021, the project received an Excellence in Construction award from the Associated Builders and Contractors organization.

The foregoing is a statement of facts:

Signature:

Telephone Number: 816.361.0440

Type Name and Title: Laura Gray, PE, ENV-SP, Contract Manager; Principal in Charge

Date: August 12, 2022



LampRynearson.com

Proposed Revisions to Standard Terms and Conditions

Lamp Rynearson requested revisions to Section 9. Standard Terms and Conditions (these questions were submitted through lonwave):

- Standard Term and Condition No. 9.11: Warranty statement is uninsurable under our professional liability insurance. In its place we suggest a Standard of Care clause. **"In providing services under this Agreement, the Consultant shall perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances at the same time and in the same or similar locality."**
- Standard Term and Condition No. 9.18: The indemnity is very broad and creates uninsured issues for a design professional. We request modification with the following indemnity language that is better aligned for a design professional and it includes an obligation to reimburse the client their legal expenses if the design professional is negligent: "The Consultant agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Client, its officers, directors and employees (collectively, Client) against damages, liabilities and costs arising from the negligent acts of the Consultant in the performance of professional services under this Agreement, to the extent that the Consultant is responsible for such damages or liabilities on a comparative fault basis between the Consultant and the Client. The Consultant shall not be obligated to indemnify the Client for the Client's own negligence or for the negligence of others. Notwithstanding the duty to indemnify and hold harmless, the Consultant expressly agrees, after adjudication by a court of competent jurisdiction, to reimburse the Client pursuant to this provision for any costs and fees determined by the court to have been reasonably, necessarily and actually incurred by the Client in the defense of those claims specifically caused by the Consultant's negligence."
- Standard Terms and Condition Paragraph 9.35 Performance and Statutory Bonds: A performance bond is not normal for a design professional. It is noted as "may be required to furnish" Lamp Rynearson cannot acquire a bond.
- Special Conditions Paragraph 10.1, page 43, requires that "Contractor shall require and verify that any and all subconstractors
 maintain insurance meeting all requirements ..." Please note that none of our partner firms can meet the Professional Liability
 limit of \$5 million. Our partner firms carry between \$2 million and \$3 million professional liability limit policies. In addition, our
 proposed subconsultant for geotechnical investigation, who we partner with regularly, could not commit to being included in
 this response without the insurance requirement being modified by Addendum to the RFP.
- We will work in good faith with JCW on these items and they will not impact our ability to perform the noted projects.



Cooperative Procurement with Other Jurisdictions

11. COOPERATIVE PROCUREMENT WITH OTHER JURISDICTIONS

If Johnson County, Kansas awarded you the proposed contract, would you sell under the prices and terms of this Contract to any Municipality, County Public Utility, Hospital, Educational Institution, or any other non-profit organization? (All deliveries shall be F.O.B. Destination and there shall be no obligations on the part of any member of said Council to utilize this Contract). This section will not affect award.



- Sales will be made in accordance with the prices, terms, and conditions of the Request for Proposal and any subsequent contract.
- There shall, however, be no obligation under the cooperative procurement agreement for any organization to utilize the RFP or contract unless they are specifically named in the Request For Proposal.
- All sales to other jurisdictions will be made on purchase orders issued by that jurisdiction. All receiving, inspection, payments and other contract administration will be the responsibility of the ordering jurisdiction.
- The principal contracting officer (PCO) is responsible to handle the solicitation and award the contract. The PCO has authority to modify the contract and handle disputes regarding the substance of the contract. The PCO is the Purchasing Administrator, Johnson County, Kansas.
- Each jurisdiction that is a party to the joint RFP has authority to act as Administrative Contracting Officer with responsibility to issue purchase orders, inspect and receive goods, make payments and handle disputes involving shipment to the jurisdiction.

12. INVOICE DISCOUNT TERMS

Is a discount offered for prompt payment of invoices?



Is a discount offered for prompt payment of invoices?

YES___ NO_X

- a. Vendor Terms: _____
- b. % Discount: _____
- c. Net _____ Days