

# **BHC RHODES**

*Civil Engineering • Surveying • Utilities*

April 24, 2015

## **Sales Tax Projects**

The County of Leavenworth

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April 24, 2015

Mr. Michael Spickelmier, P.E.  
Public Works Director  
Leavenworth County  
300 Walnut, Suite 007  
Leavenworth, KS 66048-2815

RE: Qualifications for Leavenworth County Sales Tax Projects

Dear Mr. Spickelmier and the Selection Committee:

In response to your letter dated March 25th, enclosed is a summary of our qualifications to provide professional services and assist the County with improvements to the projects slated to benefit from the extension of the County's sales tax. Our site reconnaissance, research, and familiarity with the project areas have allowed us to develop a good understanding of these projects. We are very well qualified to provide surveying, design, and construction engineering services to improve these three roads.

We are constantly striving to increase the value of our service to you. Following are highlights of ways we believe we provide you with enhanced value for this project:

**Expertise** - We provide you with a group of talented transportation design professionals and one that is seasoned on projects in Leavenworth County. The transportation team has recently completed projects which involve the same issues expected on these projects to make safety and capacity improvements.

**Utility Coordination** - We can provide you with a very proactive solution to coordinating utility issues on your projects. Given the various utility providers in the three project areas, we will be able to engage the utility companies, determine the locations of their facilities, and work with them during the design and construction process to minimize costs and delays due to utility relocations.

**Capacity** - Our present staff includes dedicated public works engineers, designers and technicians, plus survey and construction services staff that will be available to support the design team. We are currently completed several assignments, and we are ready to begin immediately on this project.

**Performance** - We maintain leading edge hardware, software, and survey instruments to support our staff, and have implemented processes and checks to build quality throughout our work. Our focus on schedules and incremental progress toward milestones helps our design teams meet or beat deadlines.

**Familiarity with Leavenworth County** - BHC RHODES has a significant amount of recent experience with communities in Leavenworth County, as well as local KDOT staff, on other design projects. We are able to leverage this familiarity to enhance communication and attempt to compress the project schedule to improve these roads as much as possible.

**Service** - We understand we must bring solutions and support, not just designs. Providing you service includes effective and timely communication, identifying and solving problems, being responsive and being responsible. We have developed an excellent relationship with County staff which will facilitate the design

process on this project. We will strive to anticipate your needs and be a step ahead of where you think we should be.

**Dedication** – As an entire company, we have a sincere interest in the success of the County’s mission to serve residents. BHC RHODES considers public safety to be of paramount importance and we pledge to help make any projects we are a part of successful.

Our team members were active in performing research for the proposal and drafting portions of this qualifications summary that would be their areas of responsibility. In doing this, the project team already fully understands the project requirements and expectations and has thought through how they will be accomplished. We will build upon processes that worked well on past projects. The project team members have developed a plan they will implement dealing not only with design, but also coordination with the utilities; providing public information, integrating with County and municipal staff, and to do it all within the defined schedule.

Leavenworth County and the city partners receive the commitment of me and the principals of our firm to be responsive to your needs and expectations, to provide a quality design, to provide excellent customer service, and to strive to help the County be successful at accomplishing the objectives for these projects.

We look forward to continuing our professional relationships in Leavenworth County.

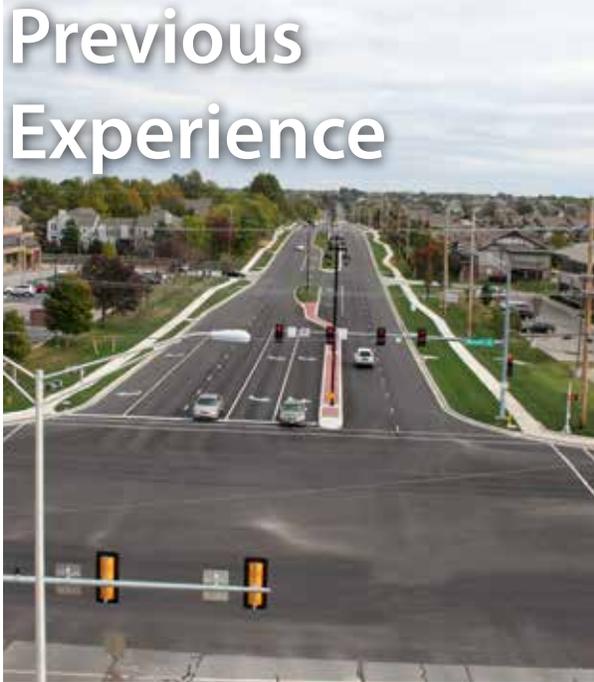
Sincerely,

Tom Degenhardt, P.E., L.S., PTOE  
Public Works Services Group Leader

enc.

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## Previous Experience



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## Project Team



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## 223rd Street Reconstruction

Miami County, Kansas



### Scope

Engineering Design  
Surveying



### Construction Cost

\$650,000



### Start Date

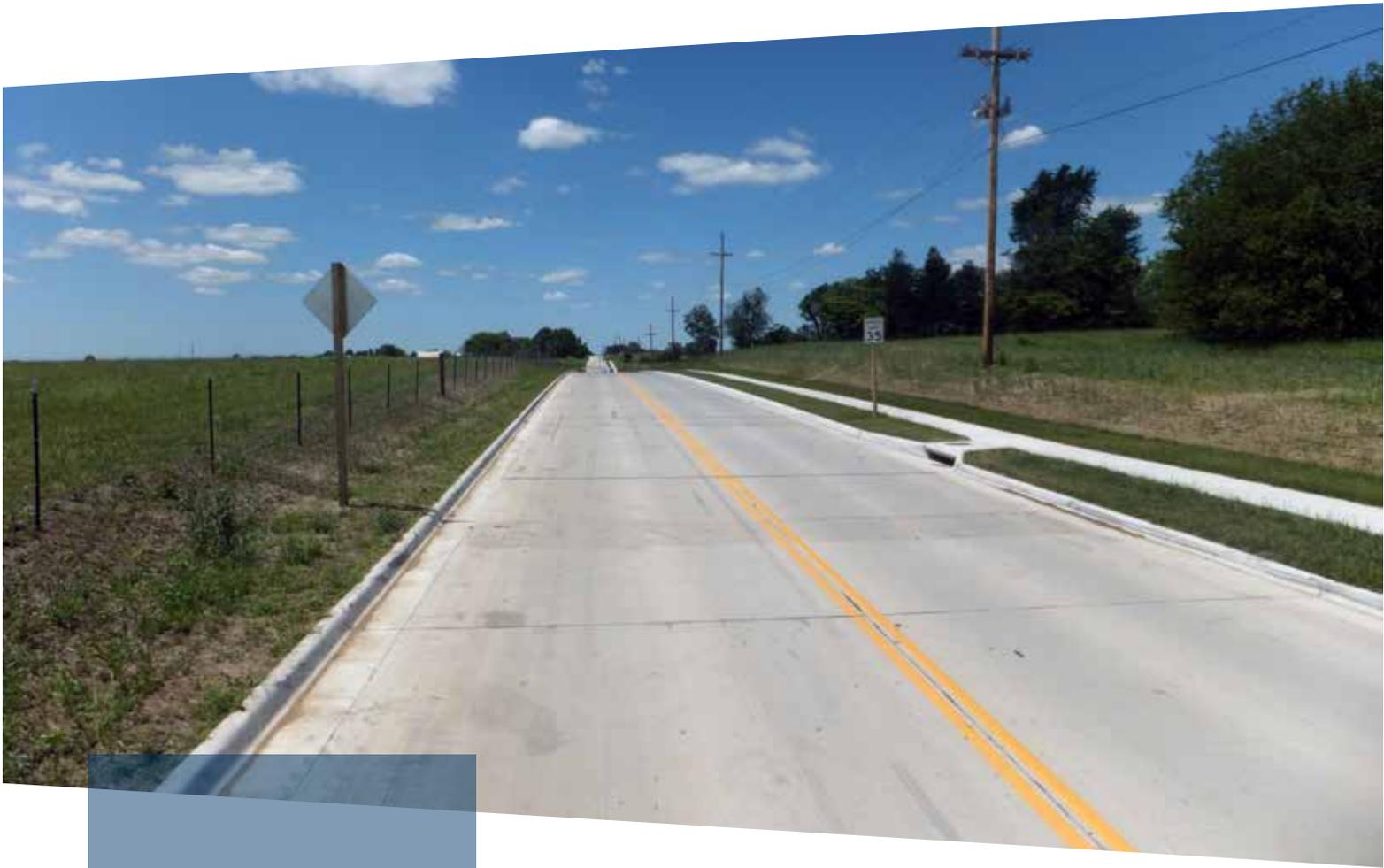
September 2012



### Customer

J.R. McMahon  
Miami County, KS  
(913) 294-4377

After a road safety audit for an 8-mile segment of 223rd Street, Miami County was awarded HRRR funds to improve the first 3/4 mile of roadway within the study corridor. The project is lowering the roadway, widening the pavement, and flattening the shoulders along the roadway to improve safety along this major rural route. BHC RHODES performed surveying and design services.



# Donahoo Road Improvements (K-7 Hwy to 131st St)

Kansas City, Kansas



## Scope

Arterial Street  
Reconstruction



## Construction Cost

\$2,500,000



## Start Date

July 2008



## Customer

Fred Backus (retired)  
Unified Government  
of Wyandotte County  
and Kansas City, KS  
(913) 573-5700

BHC RHODES was selected by the Unified Government of Wyandotte County/Kansas City, KS to provide surveying, final design, utility coordination and construction services to improve 1 mile of rural roadway to meet current urban street standards with curb and gutter, storm sewer and sidewalk. In addition, approximately 1/2 mile of improvements were made to K-7 Highway to allow for safer movement of vehicles at the Donahoo intersection. The design consisted of an interim two-lane section that will function as half of the ultimate four-lane divided roadway section. The project also included safety improvements to the K-7 Highway and Donahoo Road intersection. Construction was **administered by KDOT** through their **Bureau of Local Projects**.



# Comanche St. Improvements (US-50 Hwy to 14th Ave)

Dodge City, Kansas



**Scope**  
Design of Arterial  
Street Improvements



**Construction Cost**  
\$6,100,000 (est.)



**Start Date**  
December 2009



**Customer**  
Ray Slattery  
Dodge City, KS  
(620) 225-8106

While the City of Dodge City, Kansas continues to grow, public infrastructure must stay current to keep up with the growing community. The City engaged BHC RHODES to determine how best to improve an existing two lane rural road to create a distinctive connection between existing commercial areas and the Boot Hill Casino & Resort. Plans are being completed for 1.3 miles of new arterial parkway. BHC RHODES completed a preliminary engineering study, drafted a conceptual study to help the City decide what public infrastructure is required.



# Humphrey's Road Improvements

Platte County, Missouri



**Scope**  
Civil Engineering



**Construction Cost**  
\$600,000



**Start Date**  
October 2005



**Customer**  
Greg Sager  
Platte County Public Works  
(816) 858-2223

Platte County, Missouri is one of the fastest growing areas in the Kansas City Metropolitan area. Humphrey's Road is one of multiple roads requiring public improvements to enhance safety in the growing community. BHC RHODES provided engineering services for design consisting of grading, widening, asphalt paving, and culvert extensions. Our preliminary design included a field survey of existing conditions, preparation of a drainage area map, determined the needs for pipes and structures, and reviewed conceptual design alternatives for preferred criteria. The final design consisted of construction plans, coordination of road intersection improvements with MoDOT, and utility coordination.



# 287th and Old KC Road Improvements

Miami County, Kansas



## Scope

Design Services  
Traffic Services  
Surveying



## Construction Cost

\$600,000 (est.)



## Start Date

February 2010



## Customer

J.R. McMahon  
Miami County, KS  
(913) 294-4377

The intersection at 287th and Old KC Road has a history of accidents due to the intersection configuration and limited site distance to the north. BHC RHODES was originally retained to design improvements which included installing an advanced warning sign system to alert the southbound drivers of the intersection ahead. The County subsequently was able to secure adequate funding to lower the intersection to improve site distance and construct a left turn lane. The project used [KDOT HRRR funds](#) to make these improvements.



# 127th Street Improvements (Metcalf Ave to Nall Ave)

Overland Park, Kansas



**Scope**  
Arterial Street  
Widening



**Construction Cost**  
\$5,500,000



**Start Date**  
July 2006



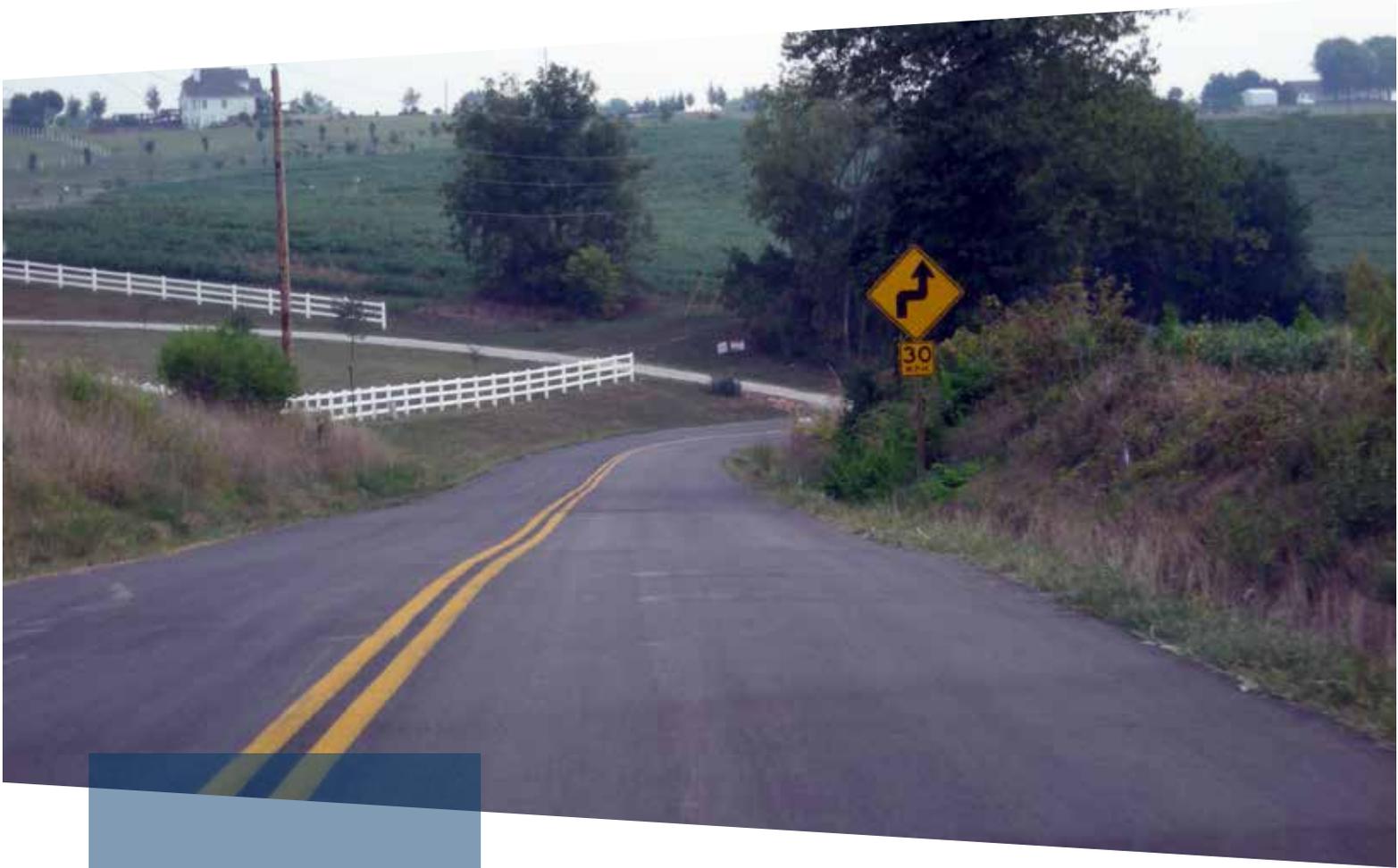
**Customer**  
Justin Nickel  
Overland Park, KS  
(913) 895-6180

127th Street from Metcalf to Nall is a 1 mile section that required improvement due to the expanding population of Overland Park. This highly traveled section of roadway provides a route to the South Creek Business Park from residential neighborhoods to the east. BHC RHODES provided survey and engineering design for the improvements which consisted of reconstructing the two-lane roadway to a divided four-lane thoroughfare section; the addition of dual southbound left-turn lanes on Metcalf, and sidewalks (with ADA ramp designs) that connect to the Tomahawk Creek trail system. Landscaping enhancements, storm sewer design, decorative street lighting, bridge maintenance, RCB connection, traffic signal modifications and utility coordination were also included along with extensive public involvement.



## Award Winner

Public Improvement Award, ACEC of Kansas  
Outstanding Engineering Achievement Award, KSPE



# Baker, Farley-Hampton & Hillsboro Rd Improvements

Platte County, Missouri



## Scope

Transportation  
Engineering  
Surveying



## Construction Cost

\$2,000,000



## Start Date

August 2004



## Customer

Greg Sager  
Platte County, MO  
(816) 858-2223

Due to identified deficiencies on Baker, Farley-Hampton, and Hillsboro Roads, upgrades were necessary to meet the standards noted in the County's Road Master Plan. The main deficiency that needed improvement was to pave the existing gravel surfaces of these roads. The roads consisted of a total of 6 miles in Platte County. BHC RHODES provided conceptual road improvement designs for all three roads. The design improvements were evaluated and prioritized to best utilize the available funding at that time. BHC RHODES then provided final plans that were prepared to construct improvements that best leveraged available sales tax funding.

# Ability to Perform Work

BHC RHODES is prepared to work immediately upon notice to proceed. Our surveyors are located in our Kansas City, Kansas office and can be at any of the 3 locations in less than 30 minutes. The designers will be based out of the Overland Park office and can be available at a moment's notice. The chart shown below reflects the personnel that will be involved and their current projects they are working on. The percent available information shows the capacity of each individual during the listed month.

Personnel/ Current Projects	Percent Available											
	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Tom Degenhardt	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
<i>Various projects and office management</i>												
Randy Gorton	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
<i>8th &amp; Minnesota - KCK</i>												
David Nolte	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
<i>2016 NSRP - Overland Park</i>												
Kurt Mester	20%	50%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%
<i>2016 NSRP - Overland Park</i>												
Patrick Joyce			50%	50%	50%	50%	50%	50%				
<i>Farley Street - Merriam</i>												
Carla Hayes				10%	10%	10%		10%	10%			10%
Will Anderson	15%	15%	15%	15%	15%	15%						
<i>Various projects and office management</i>												
Joe White				5%	10%	25%	75%	75%	75%			
<i>Fort Scott; 24th &amp; Metropolitan - KCK</i>												
Murv Morehead	10%	10%	10%	10%	10%	10%	10%	10%				
<i>ROW Projects - Overland Park; ROW Projects - Shawnee</i>												

147th Street - Parallel to Fairmont

Task Name	Start	Finish	Duration	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April
Contract Award by County Commission	6/1/15				X										
Notice to Proceed	6/5/15				X										
Kick Off Meeting - Design Criteria	6/8/15				X										
Field Data Collection	6/8/15	8/10/15	63		1										
Utility Notifications/Meetings	6/8/15														
Field Check Plans	8/10/15	9/7/15	28				2								
Order Title Info	7/1/15					X									
Field Check - Plan Review Submittal	9/7/15	9/21/15	14												
Address FC Comments	9/21/15	9/28/15	7												
Office Check Plans	9/7/15	10/16/15	39												
Office Check - Plan Review Submittal	10/19/15	11/2/15	14												
Address OC Comments	11/2/15	11/9/15	7												
Submit R/W - Easement Docs	11/9/15														
Acquisition Negotiations	11/9/15	2/12/16	95												
Final Plans	10/16/15	11/25/15	40												
Final Plan - Plan Review Submittal	11/25/15	12/9/15	14												
Address Final Comments & Specifications	12/9/15	12/16/15	7												
Advertise for Construction	1/6/16	1/27/16	21												
Bid Opening	1/27/16														
Award to Contractor	2/15/16														
Preconstruction Meeting	2/22/16														

BHC RHODES  
Leavenworth County

McIntyre - K-7 to K-5

Task Name	Start	Finish	Duration	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April
Contract Award by County Commission	6/1/15				X										
Notice to Proceed	6/5/15				X										
Kick Off Meeting - Design Criteria	6/8/15				X										
Field Data Collection	6/8/15	7/27/15	49		1										
Utility Notifications/Meetings	6/8/15														
Field Check Plans	7/27/15	8/24/15	28				2								
Order Title Info	6/29/15					X									
Field Check - Plan Review Submittal	8/24/15	9/7/15	14												
Address FC Comments	9/7/15	9/11/15	4												
Office Check Plans	8/24/15	10/2/15	39												
Office Check - Plan Review Submittal	10/5/15	10/19/15	14												
Address OC Comments	10/19/15	10/23/15	4												
Submit R/W - Easement Docs	10/26/15														
Acquisition Negotiations	10/26/15	1/25/16	91												
Final Plans	10/2/15	11/16/15	45												
Final Plan - Plan Review Submittal	11/16/15	12/4/15	18												
Address Final Comments & Specifications	12/7/15	12/22/15	15												
Advertise for Construction	12/30/15	1/20/16	21												
Bid Opening	1/20/16														
Award to Contractor	2/5/16														
Preconstruction Meeting	2/8/16														

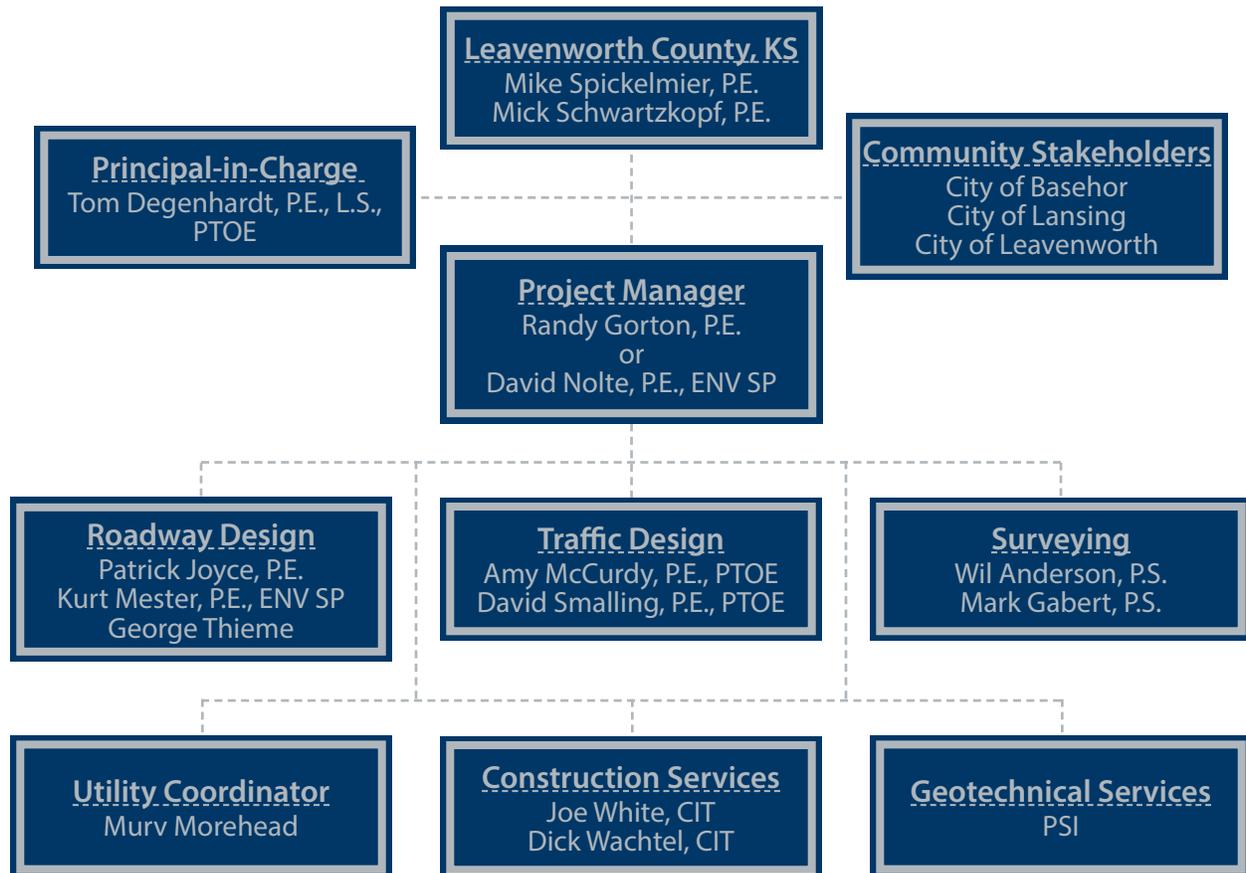
BHC RHODES  
Leavenworth County

Eisenhower Road - 155th to Tonganoxie Rd.

Task Name	Start	Finish	Duration	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April
Contract Award by County Commission	6/1/15				X										
Notice to Proceed	6/5/15				X										
Kick Off Meeting - Design Criteria	6/8/15				X										
Field Data Collection	6/8/15	8/10/15	63		1										
Utility Notifications/Meetings	6/8/15														
Field Check Plans	8/10/15	9/21/15	42				2								
Order Title Info	7/1/15					X									
Field Check - Plan Review Submittal	9/21/15	10/5/15	14												
Address FC Comments	10/5/15	10/12/15	7												
Office Check Plans	9/21/15	11/25/15	65												
Office Check - Plan Review Submittal	11/25/15	12/11/15	16												
Address OC Comments	12/14/15	12/18/15	4												
Submit R/W - Easement Docs	12/18/15														
Acquisition Negotiations	12/18/15	3/18/16	91												
Final Plans	11/25/15	1/15/16	51												
Final Plan - Plan Review Submittal	1/15/16	1/29/16	14												
Address Final Comments & Specifications	2/1/16	2/12/16	11												
Advertise for Construction	2/17/16	3/9/16	21												
Bid Opening	3/9/16														
Award to Contractor	3/31/16														
Preconstruction Meeting	4/4/16														

BHC RHODES  
Leavenworth County

# Project Team



Based on successful projects for Leavenworth County communities and other similar locations in the Metro area, BHC RHODES proposes the following team for this project. The people identified for the team will be the “do-ers” who will be leading and performing the major project elements and assignments. For this proposal we have identified two alternative project managers. Both Randy Gorton and David Nolte have relevant experience, technical expertise, and the ability to communicate proactively with our customers. We want to accommodate any preferences that you may have regarding who serves you. Our proposed project team is reflected in the Organizational Chart and their corresponding resumes in this proposal.

The BHC RHODES project team offers the following advantages:

- Proven high level of performance on similar projects.
- Familiarity with Leavenworth County and its municipalities.
- Integrated surveying, roadway design, and utility expertise.
- Key design professionals and staff members who can interact with the public and be excellent representatives of the local agencies involved.
- Construction inspectors with KDOT certifications and decades of experience.

# Tom Degenhardt, P.E., L.S., PTOE

Public Works Services Group Leader



Mr. Degenhardt is a professional engineer, land surveyor and professional traffic operations engineer with twenty-four years of experience in civil engineering. He spent twenty years in large municipal government work with the City of Kansas City, Missouri and four years in the private sector. While with the City, he spent sixteen years in program management including street lighting, capital planning, transportation planning, asset management, street preservation, street and sidewalk design services, MoDOT coordination and land surveys. His design experience includes roadways, rural and urban highways, closed system storm drainage and corridor planning studies.

## Representative Professional Experience

- 8th & Minnesota Improvements, Kansas City, KS
- Blue Ridge Sidewalk to School Improvements, Independence, MO
- Central Avenue Assessment, Kansas City, KS
- 75th Street Improvements (Switzer Road to Frontage Road), Overland Park, KS
- 24th Street & Metropolitan Avenue Intersection Improvements, Kansas City, KS

Mr. Gorton is a professional engineer with nineteen years experience in civil engineering design, construction management, and public planning. His experience includes land development and site design projects, roadway design, hydrology and hydraulic analyses for road and bridge projects. He is also experienced in water and sanitary sewer system design, municipal on-call services, public planning projects and construction inspection.

## Representative Professional Experience

- 223rd Street Road Safety Audit, Miami County, KS
- Donahoo Road Improvements (K-7 Highway to 131st Street), Kansas City, KS
- Comanche Street Improvements (US-50 Highway to 14th Avenue), Dodge City, KS
- Humphrey's Road Improvements, Platte County, MO
- 287th and Old KC Road Improvements, Miami County, KS
- Baker, Farley-Hampton, and Hillsboro Road Improvements, Platte County, MO
- 8th & Minnesota Improvements, Kansas City, KS
- Central Avenue Assessment, Kansas City, KS

# Randy Gorton, P.E.

Project Manager



# David Nolte, P.E., ENV SP

Project Manager

Mr. Nolte is a professional engineer with twenty-seven years of experience in project management, design and construction of roadway, bridge, stormwater, water and sanitary sewer projects throughout the midwest. During his career he also worked several years with a local municipality, providing insight into the priorities and constraints that local governments manage while meeting infrastructure needs of residents.

## Representative Professional Experience

- 2016 Neighborhood Street Reconstruction Program, Overland Park, KS
- 24th Street & Metropolitan Avenue Intersection Improvements, Kansas City, KS
- 199th and Webster Improvements, Spring Hill, KS
- 143rd Street Overpass (Quivira to Switzer), Overland Park, KS *(with another firm)*
- 127th Street Overpass (Kansas City Road to Mur-Len Road), Olathe, KS *(with another firm)*
- Moonlight Road Improvements, City of Gardner, KS *(with another firm)*

Mr. Anderson has forty-two years of experience in the surveying industry. His background includes mapping, boundary, mining, defense, and construction markets, both within the USA and internationally.

## Representative Professional Experience

- Comanche Street Improvements (US-50 Highway to 14th Avenue), Dodge City, KS
- 75th Street Improvements (Switzer Road to Frontage Road), Overland Park, KS
- 2014 Neighborhood Street Program, Overland Park, KS
- US 69 Improvements, Ft. Scott, KS
- On-Call Engineering Services, Edwardsville, KS
- State Avenue Improvements (73rd Street to 82nd Street), Kansas City, KS
- Dodge City Pedestrian Bike Trail, Dodge City, KS
- Main Street Revitalization, Grandview, MO
- Fort Scott Riverfront Park Loop Design, Ft. Scott, KS

# Wil Anderson, P.S.

Survey Services Group Leader



# Kurt Mester, P.E., ENV SP

Project Engineer

Mr. Mester has six years of experience in public transportation and private site development projects.

## Representative Professional Experience

- 75th Street Improvements (Switzer Road to Frontage Road), Overland Park, KS
- 2016 Neighborhood Street Reconstruction Program, Overland Park, KS
- 24th and Metropolitan Intersection Improvements, Unified Government of Wyandotte County / Kansas City, KS
- Merriam Pointe Roundabout, Merriam, KS
- 8th & Minnesota Improvements, Kansas City, KS
- 2014 Neighborhood Street Reconstruction, Overland Park, KS
- 2013 Priority Traffic Signals, Kansas City, KS
- Central Avenue Assessment, Kansas City, KS
- US 69 Highway Improvements, Fort Scott, KS

# Patrick Joyce, P.E.

Project Engineer

Mr. Joyce is a professional engineer with ten years experience in civil engineering, managing and completing a wide variety of civil related projects. His experience includes projects involving water resources, environmental, traffic, materials and construction.

## Representative Professional Experience *(with another firm)*

- Loch Lloyd Residential Expansion, Loch Lloyd, MO
- Birmingham Levee Recertification, Kansas City, Birmingham, Randolph & Liberty, MO
- Building 465 Renovation, Fort Leavenworth, KS
- Golf Course Expansion, Village of Loch Lloyd, MO
- Walmart Supercenters, Sam's Clubs and Neighborhood Markets, Missouri and Kansas
- AT&T Distributed Antenna System

Mr. Morehead recently joined BHC RHODES with twenty-seven years experience working for the City of Overland Park in municipalities. For the last fourteen years he served as the first ROW Coordinator for the City where he was responsible for development and operation of the newly created ROW Management Program. Primary responsibilities included, but were not limited to, ROW work permit application review, issuance of work permits, field inspection of permitted work and utility coordination. Additional responsibilities included serving as the primary temporary work zone traffic control enforcement agent for the City, responding to numerous contractor inquiries and collaboration with other municipalities on various ROW management issues.

**Representative Professional Experience** *(with another company)*

- Axon, Overland Park, KS
- Everest Communications, Overland Park, KS
- AT&T, Overland Park, KS
- WaterOne of Johnson County, Overland Park, KS
- Extenet, Overland Park, KS

## Murv Morehead

Senior Engineering Technician



## Joe White

Resident Project Representative

Mr. White has fourteen years experience in construction inspection services in the practice areas of utilities, roads and bridges. He utilizes his past experience as an engineering technician at KDOT to serve BHC RHODES as a Field Engineering Technician for projects throughout Kansas.

**Representative Professional Experience**

- Donahoo Road (K-7 to 131st Street) LPA Inspection, Kansas City, KS
- KDOT On-Call Inspection, Kansas City, KS
- 78th Street LPA Inspection, Kansas City, KS
- 90th and Conser Storm Improvements, Overland Park, KS
- Quivira Road Inspection, Overland Park, KS
- Woodend Road, Edwardsville, KS
- Old 56 / US 56 Intersection Inspection, Gardner, KS



# Project Execution

## Approach and Capabilities

“Communication leads to success.” BHC RHODES would first meet with the County and involved City to gain the details and insight associated with each project. Some of the design criteria elements needed would include: design speed, shoulder widths, utility corridors, access points, and drainage. Upon complete understanding of the expectations, our surveyors would begin gathering field information.

## Survey

Our survey approach will be dependent upon the type of project we are working on. BHC RHODES believes in using the right tool for the job. The approach to a rural two-lane highway is different than a suburban four-lane roadway and intersection project.

Our methods are mostly reflected by the KDOT Survey Manual for horizontal and vertical control, alignment re-establishment, determination of rights-of-way and safety.

We use a wide range of survey instrumentation from traditional survey methods, to GPS surveys, to 3D laser scanning. These decisions are based upon safety for the field crews, the public traveling the roadways and the level of detail needed for the project.

Our surveys start with a primary control plan for the horizontal and vertical control. Discussions need to be had as to the datum basis of these. We employ the KDOT manual procedures for setting and performing our control.

With the variety of the projects, alignment recovery will

be based upon existing plans when provided, property corners, discussions with owners, existing culverts, bridges, right-of-way markers, etc.

The use of 3D scanning to obtain pavement data is a much safer way to gather points in congested or high traffic areas. On rural two-lane highways 50 foot interval cross sections are usually obtained via a total station. Soft shots such as grass and edge of gravel, utilities, trees, fence lines, signs, and other objects of interest are located via RTK GPS.

Extensive field notes are maintained throughout the project. Section corners that are observed will be reference tied and provided to the county and state departments.

## Design

While the survey crews are busy in the field, the designers would start setting up sheets such as the cover sheet, typical details and standard details. Also at this time the utilities would be notified and general location maps obtained. Once the field work has been completed, the design team would proceed with the roadway improvements such as plan and profiles, cross-sections and drainage structures. The design team and representatives from each agency would complete a “field check”, making sure all the items in the field and required design elements are addressed in the plans. A cost estimate would also be developed at this time.

As plans progress, proposed right-of-way and easements are incorporated. Upon completion of the “office check” review, legal descriptions would be developed for acquisition purposes. With these documents being

completed early, it allows adequate time for negotiations with property owners. At the same time it allows the utility companies to complete their relocation plans in preparation of moving their facilities into the new easements, if necessary. The cost estimate would be refined from the previous submittal and provided to reflect the most accurate information as this stage.

As intersection details, driveway profiles, construction phasing, pavement marking and signing and quantities are completed, "final plans" will be submitted along with the final cost estimate.

As previously indicated, BHC RHODES has significant experience working with communities in Leavenworth County and will provide best design practices with a budget in mind. Communication with the involved stakeholders throughout the project is crucial to the project's success.

## Utilities Mapping and Relocation Experience

Communication with utility companies and coordination between project design and property owner concerns for the relocation of utilities are key success factors for this project. BHC RHODES will assign Mr. Murv Moorehead as our dedicated utility coordinator and he will be available from the initial kick-off meeting through the construction phase to provide continuity. BHC RHODES is uniquely qualified to perform utility coordination due to our experience working in the utility industry. Our utility coordination approach has been successfully used on our past projects.

The first step in utility coordination is to research the utility companies having facilities in the areas of the project. BHC RHODES views the utility companies as

important stakeholders and we understand these projects may have a financial and operational impact on them. The property owners in the project areas depend on uninterrupted services from their utility providers, so utility facilities are an integral part of these projects and a key factor in the project success.

BHC RHODES also has over 22 years of experience providing design and inspection services for telecommunications installations of all types. Over this time period, BHC RHODES has employed hundreds of designers and inspectors, many of whom have been with us on a contract basis for many years. We currently have over 20 inspectors of various types working on projects throughout the United States. We maintain an extensive list of qualified and capable telecommunications inspection personnel.

Having this expertise helps in planning for future facilities, coordinating relocation of existing facilities, and most important, knowing who to contact during the design process and construction periods. BHC RHODES' Technical Manager, Murv Morehead spent the past 15 years inspecting utility installations of all types within the City of Overland Park right-of-ways and is intimately familiar with the requirement and challenges these installations place on city resources and infrastructure.



BHC RHODES is aware of the waterline concerns along 147th Street and we would work with the involved agencies to minimize relocations, decreasing the actual construction costs along with minimizing the easement acquisition time and cost.

## Temporary Work Zone Traffic Control

BHC RHODES provides traffic control design services in all types of scenarios. With traffic engineers readily available, we are adept at designing traffic control for temporary construction scenarios as well as performing studies for long term planning purposes. Many of the permitting activities noted above required temporary traffic control designs in accordance with MUTCD standards. During the past year, BHC RHODES has been responsible for the design of more than 250 unique traffic control scenarios for telecommunications utility construction in Austin, Texas. With this experience, BHC RHODES is well qualified to review traffic control setups in the field and identify deficiencies.

## Quality Control and Quality Assurance

We believe quality service comes from having the best people, being process oriented, communicating and providing a team atmosphere with open coordination.

Following are key elements of our quality assurance plan:

- Communicate and coordinate with the customer on an on-going basis so we know the objectives and expectations and so we get feedback along the way.
- Plan your work. Develop the required tasks, identify the skill sets necessary for those tasks, make staffing assignments and relate all of this to the schedule and budget at the beginning of the project. Use this as a "strategic plan" for the project. Monitor progress against this plan, preferably on a weekly basis.
- Be process oriented. Each team member needs to understand the overall work flow for the project

and what we must do to ensure the work is of high quality and on schedule. Look for ways to modify the process for doing work that will enhance quality.

- Do it right the first time. Remember quality drives everything: productivity, profitability, customer satisfaction, etc. Check yourself as you go and don't rely on somebody catching your mistakes.
- Staff projects with people who have the necessary knowledge, skill, and ability to accomplish the task (doing it right the first time).
- Utilize team processes in which everyone associated with a project is included in communication flow.
- Provide regular coordination of all of the project team members to verify progress, assignments, upcoming activities, and get feedback to enhance overall performance.

## Construction Engineering and Administration

We understand as a consultant inspector we become an extension of our customers' own authority and representation. Along with that is the responsibility to represent the customer in a manner of which they expect.

In our day-to-day performance on the project, we will strive to anticipate your needs and be a step ahead to insure the projects timely completion and prevent any unnecessary delays. We are there to represent the County and City partners, and must bring solutions and support, not just construction observation. For these projects our staff will be able to adapt our level of service to match the County's level of need. There are several reasons why we are able to provide this level of customized service:

- Our inspection team has years of experience with work for KDOT, the Cities of Overland Park, Lenexa,

Shawnee, Kansas City, Kansas / Wyandotte County and other agencies.

- Our team knows the reality of today’s multi-project inspection load, and understands efficiency and communication is key to managing several projects at any given time.
- BHC RHODES’ inspection team is equipped with the latest in technology for field documentation. Each inspector has available to him/her the use of laptop computers, smart phones, iPads and a cloud based sharing program allowing our team an efficient line of communication to customers and contractors.

This capability means we can provide qualified staff (with KDOT CIT certification if needed) to provide inspection and construction administration on a limited basis while still providing the County with valuable expertise during construction. If the County desires to reduce inspection costs and does not require full-time inspection on these projects, some possible arrangements for partial oversight are:

- **“Half-day” inspection** – our inspectors can arrange to visit the site on days when construction work is occurring to monitor contractor progress, stay on site as long as needed to address questions or provide clarifications, verify pay quantities, and keep the County updated on status of work. Once



satisfied that work is proceeding in conformance with the plans and specs, our inspector would leave. On days where critical stages of work are being performed (i.e. final grading and compaction testing, structure installation, proof-rolling, paving, etc.), this arrangement would allow for daily checks on contractor performance without incurring full-time inspection costs.

- **“Milestone” inspection** – our inspector would visit the site whenever the contractor has completed each element of major work (i.e. rough grading, culvert installation, final grading, before beginning paving, etc.) to verify compaction, grade, etc. before contractor moves on with next stage of work. Typically the inspector would visit the site at least weekly to document progress and assess pay quantities. This arrangement minimizes inspection costs while still providing administrative support for payment processing and final documentation.

As part of assuring construction is completed in conformance with the bid documents, we would arrange for materials testing for various items of work. The frequency of tests can be set based on the County’s preference (KDOT frequencies, County standards, or a unique arrangement for these projects). Our inspectors have experience performing tests on soils, aggregates, asphalt, and concrete. We are able to perform some of these tests ourselves using our own equipment. Other tests can be done using a geotechnical firm at a comparable cost to us doing them ourselves.

In addition to performing quality assurance work during construction, our staff are regularly involved in providing quality control reviews during our design phase. We do this for two primary reasons: our inspectors are able to identify areas where not enough detail is provided or an

alternative improvement arrangement would improve constructability, and these reviews give our inspectors a much better understanding of the project before construction stops. This involvement during design means deviations by the contractor are spotted more quickly and any field adjustments can be done while adhering to the intent of the design.

Our staff routinely inspects projects receiving State and Federal funds. As these funds are administered by KDOT, our current on-call inspection work for KDOT keeps our staff fully up-to-date on KDOT procedures and local staff in the Metro office most likely to be involved in Leavenworth County projects. We are currently providing inspection on a Federally-funded project in Bourbon County that uses some uncommon funding to make improvements near Federal property.

# References

We encourage Leavenworth County to contact our recent customers who can describe the service we provided on similar projects:



## Don Hovey, P.E.

Construction Engineer  
Johnson County, KS  
(913) 715-8312

[See testimonial on our website](#)



## Greg Sager

Director of Public Works  
Platte County, MO  
(816) 858-3338



## Brian Scovill, P.E.

Senior Civil Engineer  
City of Overland Park, KS  
(913) 895-6000

[See testimonial on our website](#)



## Bill Heatherman, P.E.

County Engineer  
Unified Government of Wyandotte  
County & Kansas City, KS  
(913) 573-5700



## Jim Hendershot

Community Development Director  
City of Spring Hill, KS  
(913) 592-3664



## Tim Nebergall, P.E.

Director of Public Works  
City of Gladstone, MO  
(816) 436-5442



## Mike McDonald, P.E.

Public Works Director  
City of Leavenworth, KS  
(913) 684-0375



## Mike Webb

City Manager  
City of Edwardsville, KS  
(913) 441-3707



## Tim Green, P.E.

City Engineer  
City of Lenexa, KS  
(913) 477-7663



## Ray Slattery, P.E.

Director of Engineering Services  
City of Dodge City, KS  
(620) 225-8106



## Doug Wesselschmidt, P.E.

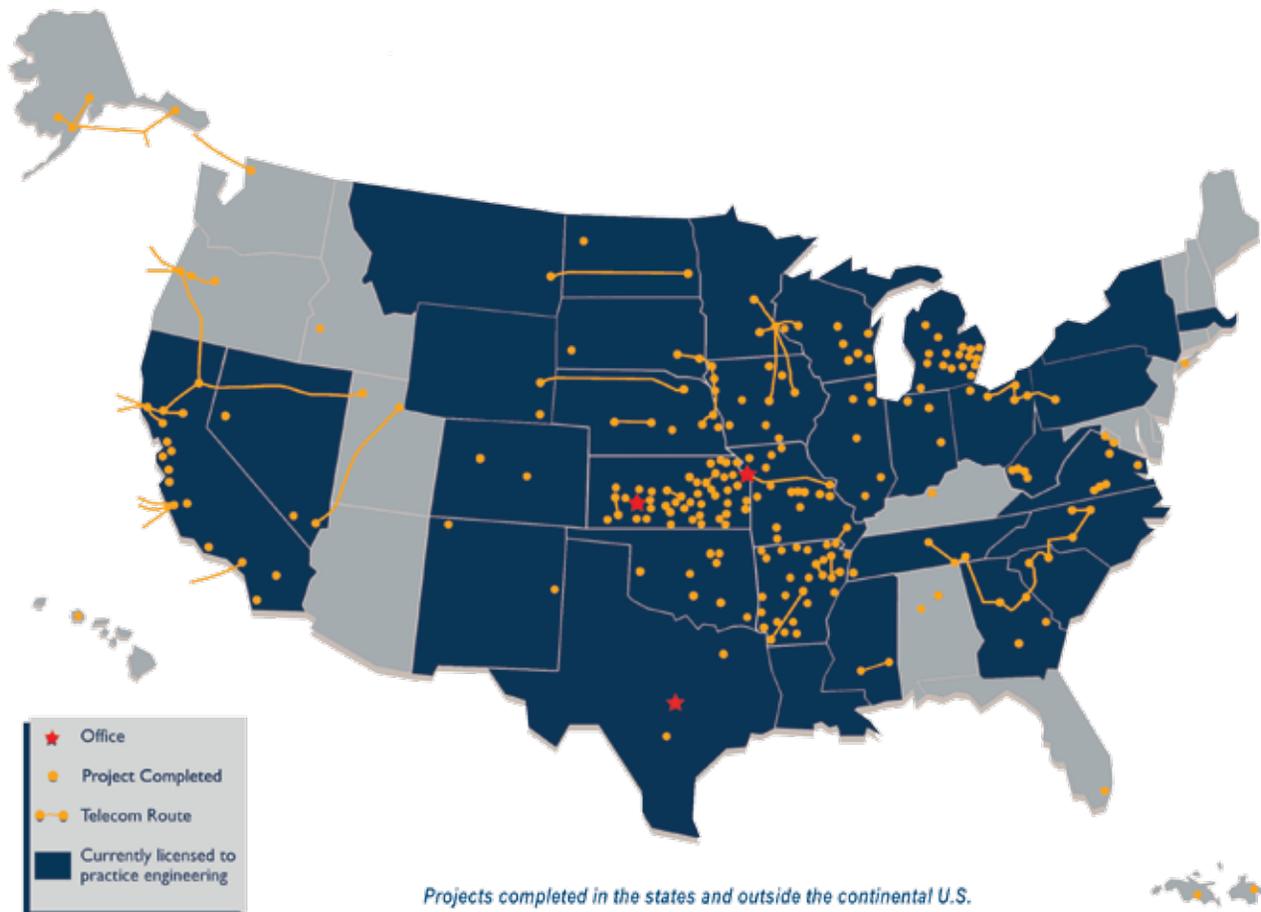
Director / City Engineer  
City of Shawnee, KS  
(913) 631-2500

# Best Project Fit

The BHC RHODES' Public Works team is flexible and very capable to provide construction documents for any of the three road improvement projects. The team members have worked with the staff at Leavenworth County and all of the Cities involved. With our past experiences and relationships with these agencies, the BHC RHODES team would be best suited to complete

the work for 147th Street improvements. However, BHC RHODES is certainly qualified and absolutely interested in completing the Eisenhower Road and McIntyre Road projects, should the selection committee feel that either is a more appropriate assignment for our firm.





# We can!

★ 7101 College Blvd., Suite 400  
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★ 901 N. 8th Street, Suite 100  
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★ 705 1st Avenue, Suite A  
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★ 1524 S. IH-35, Suite 320  
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