



**Missouri's
Local
Program**
*for community
development*

COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

Firm's Full Legal
Name:

Klingner & Associates, P.C.

Firm Contact Name:

Eric Barnes, PE

Contact Email
Address:

ebb@klingner.com

Firm's Mailing Address:

616 N 24th St

Quincy, IL 62301

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures
- Environmental
- Historic Preservation
- Multimodal Planning / Systems and Facilities Design
- Transportation Planning – **NEW CATEGORY**

December 12, 2025

Ms. Ashley Buechter, PE, Local Program Administrator
Missouri Department of Transportation
105 West Capitol Avenue, P. O. Box 270
Jefferson City, Missouri 65102

Re: Letter of Interest – LPA – Structures

Dear Ms. Buechter:

Klingner & Associates, P.C. (Klingner) has spent decades improving and designing bridges for motorists across the region. We're ready to continue this important work through on-call Structures services for Missouri's Local Public Agencies. Our portfolio demonstrates both breadth and depth, from rehabilitations of aging bridges to full culvert replacements for improved drainage. Of the 30+ MoDOT contracts Klingner has worked on since 2017, several are bridge specific—including new interchange designs and the replacement of two structures on Macon Route 149. We've also acquired Koehler Engineering & Land Surveying (Koehler)—a firm with a history of MoDOT and local agency bridge design work. Whether evaluating concrete superstructures, steel girder designs, or replacement versus rehabilitation options, our team applies rigorous analysis to determine longevity, feasibility, and cost. With 130+ bridge designs, rehabilitations, and inspections completed in the last 15 years, Klingner delivers resilient, tailored solutions. Furthermore, our team designs to AASHTO Load and Resistance Factor Bridge Design Specifications and is familiar with the requirements of federal projects.

Behind every successful bridge is a competent team. Klingner's in-house specialists in structural design, hydraulics and hydrology, roadway design, geotechnical investigations, and Right-of-Way work together assemble a complete picture of each location—guiding every decision from structure type to span arrangement. This integrated approach supports plan development, detailing, hydraulic studies, cost comparisons, environmental clearances, and Right-of-Way services. With offices in Columbia, Cape Girardeau, and Hannibal—along with Illinois locations near the Missouri border—Klingner maintains local presence for responsive service. All communication flows through myself, the Transportation Department Manager, as the single point of contact, with project teams utilizing video conferencing, secure file sharing, and in-person meetings to maintain efficient coordination throughout design and delivery.

GENERAL EXPERIENCE:

The following is a short list of recent projects where Klingner provided bridge design:

City of Jackson / MoDOT, BRO-R129(001) Bridge #2150005 Replacement, Jackson, MO – While working as Koehler, Klingner team members provided conceptual, preliminary, and final roadway and bridge design plans for a single span bridge structure on City of Jackson roadway Sunset Drive over Hubble Creek. No new Right-of-Way was required for this project. Geotechnical investigations were performed utilizing a CME 55 truck-mounted drill rig equipped with calibrated automatic hammers. Borings were advanced at each of the two bridge bent locations, extended to bedrock, with 10' rock cores extracted at each bent. Soil samples were analyzed in our AMRL-certified laboratory, and rock quality designations (RQDs) were determined for all samples. Boring logs were prepared using gINT software and incorporated into contract drawings in accordance with MoDOT EPG standards. The geotechnical report informed structural design. The team filed for and obtained all environmental and cultural clearances in accordance with NEPA and MoDOT EPG requirements. Design documents for approach roadway, pedestrian ways, utility relocation, and related facilities were prepared. The bridge foundation design consisted of reinforced concrete bents bearing directly on bedrock. The bridge superstructure consisted of 1 span of 27" x 36" prestressed concrete box girders with a total length of 65'. *Federally Funded*

Cape Girardeau County Commission / MoDOT, BRO-R016(033) New Bridge on CR 501 over Apple Creek, Cape Girardeau County, MO – While working as Koehler, Klingner team members provided conceptual, preliminary, and final roadway and bridge design for a 3-span bridge structure on Cape Girardeau County Road 501 over Apple Creek. Right-of-Way plans, exhibits, and legal descriptions were prepared for fee title and easement transfers to the local public agency and assistance was provided in Right-of-Way negotiations and acquisition. The team filed for and obtained environmental and cultural clearances in accordance with NEPA and MoDOT EPG requirements. Services included field investigation utilizing a CME 750 ATV drill rig to advance borings at all 4 bridge bent locations. Borings were extended to bedrock with 10' rock cores obtained at each location. Laboratory analysis included soil classification testing and rock quality designation (RQD) determinations for foundation design. Boring logs were prepared using gINT software and incorporated into contract documents in accordance with MoDOT EPG standards. The geotechnical report informed structural design. Design documents for approach roadway, adjacent entrance drives, drainage structures and piping were prepared. The bridge design included bearing H-piles for both end bents and interior bents set in pre-bore pockets in bedrock due to the shallow bedrock depth. The bridge superstructure consisted of 3 spans of 33" x 36" prestressed concrete box girders with a total length of 135'. *Federally Funded*

MoDOT NE, NE0158 – Route 149 over Little Walnut Creek, Macon County, MO – Klingner is providing engineering services for the removal of the existing box culvert X0936 (double 10'x5') and design for the replacement structure on Route 149 over Little Walnut Creek in Macon County. Significant hydraulic analysis was conducted, resulting in a streambed armoring design to mitigate scour due to historic, reoccurring heavy flooding at this location. Ongoing services include hydraulic analysis and reporting, Section 404 Corps of Engineers Permit, preliminary roadway plans, RES, Bridge Memo, and Right-of-Way plans. Final design will include final roadway plans utilizing OpenRoads Designer, final bridge plans, specifications, and estimates. The new structure will be a 1-span reinforced concrete slab bridge, 40' span, 20" depth, with integral end bents on steel H-piling. Extra high-strength ChromX steel will be used in the slab to reduce superstructure depth and reinforcement. *Federally Funded*

MoDOT NE, NE0004 – K & V Interchange over US 61, Lincoln County, MO – Klingner is providing conceptual, preliminary, and final roadway and bridge design as well as Right-of-Way plans for a new interchange to carry Routes K and V over the 4-lane, divided US 61 facility in Lincoln County. 3D design, utilizing OpenRoads Designer, includes the ramps, grade-separation structure, and outer road intersections with 2, 5-leg roundabouts. The project also involves the associated outer road network connections and removal of at-grade accesses to US 61 at Creech Lane and Routes K & V. The grade-separation structure utilizes 2 spans of 127' PPC NU-63 girders with integral end bents on steel H-piling and a median pier supported by drilled shafts. Construction documents are being prepared in accordance with MoDOT's Engineering Policy Guide. *Federally Funded*

IDOT District 6, PTB 193/027 – US 24 over Homan Creek, Adams County, IL – Klingner provided final bridge design for the rehabilitation of SN 001-0010 over Homan Creek, a 132'-3", 3-span bridge carrying US 24 over Homan Creek. An in-depth scour analysis was conducted due to the velocity of the water flowing under the structure and mitigation of the existing stream bed was incorporated. Klingner's hydraulic calculations and recommendations were discussed with IDOT to determine scour protection at the substructure units. Work included removing and replacing the concrete deck, converting to semi-integral abutments, adding welded shear studs to existing beams, replacing the existing rocker bearings with elastomeric bearings, installing new concrete parapets, and adding new approach pavement. The existing concrete slope walls were removed and a slope mattress, gabions, and riprap were added below the structure to mitigate scour. *Federally Funded*

PERSONNEL:

The following professionals may perform key roles during the bridge design projects. Additional staff will be utilized as needed to complete the project team for any given project. We will assign staff and resources to meet the project schedule and established deadlines.

Eric B. Barnes, PE, Transportation Department Manager – I have 32 years of experience designing projects for both MoDOT and IDOT. From managing small rehabilitations to designs for full structure replacements, my diverse design perspective is a benefit to MoDOT. I will be responsible for overall project management of all LPA projects, serving as the single point of contact.

Ryan J. Phelps, PE, Senior Engineer – Ryan, who has 19 years of experience, has designed numerous bridge projects for Klingner. He is well-versed in conceptual designs; bridge plan documents, including hydraulic reports; substructure and superstructure design; and PS&E. He is an NBIS-certified bridge inspector and has LRFD Design training for highway bridge superstructures. He will be responsible for structure QC / QA for the LPA on-call bridge projects.

Aaron M. Schafer, PE, SE, Senior Engineer – For 17 years, Aaron has performed analysis and design for rehabilitated and new bridges. His work involves design alternatives; conceptual, preliminary, and final bridge design; and investigations as an NBIS-certified bridge inspector. He will be responsible for structure designs for the LPA on-call bridge projects.

Matt Seabaugh, EI, Engineering Assistant – Matt has 9 years of experience as an engineering intern. He has assisted in designs for several box beam bridges with pre-stressed concrete members in Southeastern Missouri and St. Louis, MoDOT bridges (Routes 501, 401, 420, and 436), county bridges, and the Sunset Bridge in Jackson, Missouri. Matt is certified in Pile Dynamic Analysis for steel shell and pre-stressed concrete piles. He will be responsible for structural design support.

B. Joseph Sick, PE, Geotechnical Department Manager – Joe has provided geotechnical analysis, field / laboratory testing, site earthwork and foundation engineering, and drilling coordination services for nearly 30 years. He is responsible for geotechnical report writing on a wide range of projects and has conducted deep foundation load tests; cone penetration testing; soil, rock, and pavement coring, and more. He will provide internal geotechnical coordination and analysis for LPA projects.

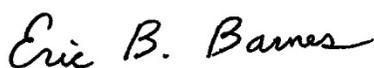
Gavin H. Risley, PE, CFM, Water Resources Department Manager – Gavin is a key resource for hydraulic design, leveraging 20 years of experience working with many widely-accepted hydrologic and hydraulic models and methods. Combined with extensive permitting knowledge, Gavin's analyses support structural integrity and durability for bridges and culverts. He will be responsible for bridge-related hydraulic QC / QA for LPA projects.

Ryan Kelley, EI, Engineering Assistant – Ryan, who recently passed his PE exam, is an emerging leader in hydraulic modeling. With 4 years of experience, Ryan applies his knowledge of hydraulics programs, such as SRH-2D, HEC-RAS, HEC-HMS, and SMS to determine complex flow conditions. He will be responsible for drainage and hydraulic design for LPA bridge projects.

Stephen P. Mock, PLS, Senior Land Surveyor – Steve has been a land surveyor with Klingner for 52 years. In that time, he's performed Right-of-Way services; property, topographic, and hydrographic surveys; subdivision surveys and staking; construction staking; coordination of survey work; and more. Steve will provide surveying QC / QA and Right-of-Way services for LPA projects.

The Klingner team looks forward to providing MoDOT with structure designs supported by active communication and coordination, project management, and Quality Control / Quality Assurance. Your consideration of the Klingner team is greatly appreciated.

Sincerely,
KLINGNER & ASSOCIATES, P.C.

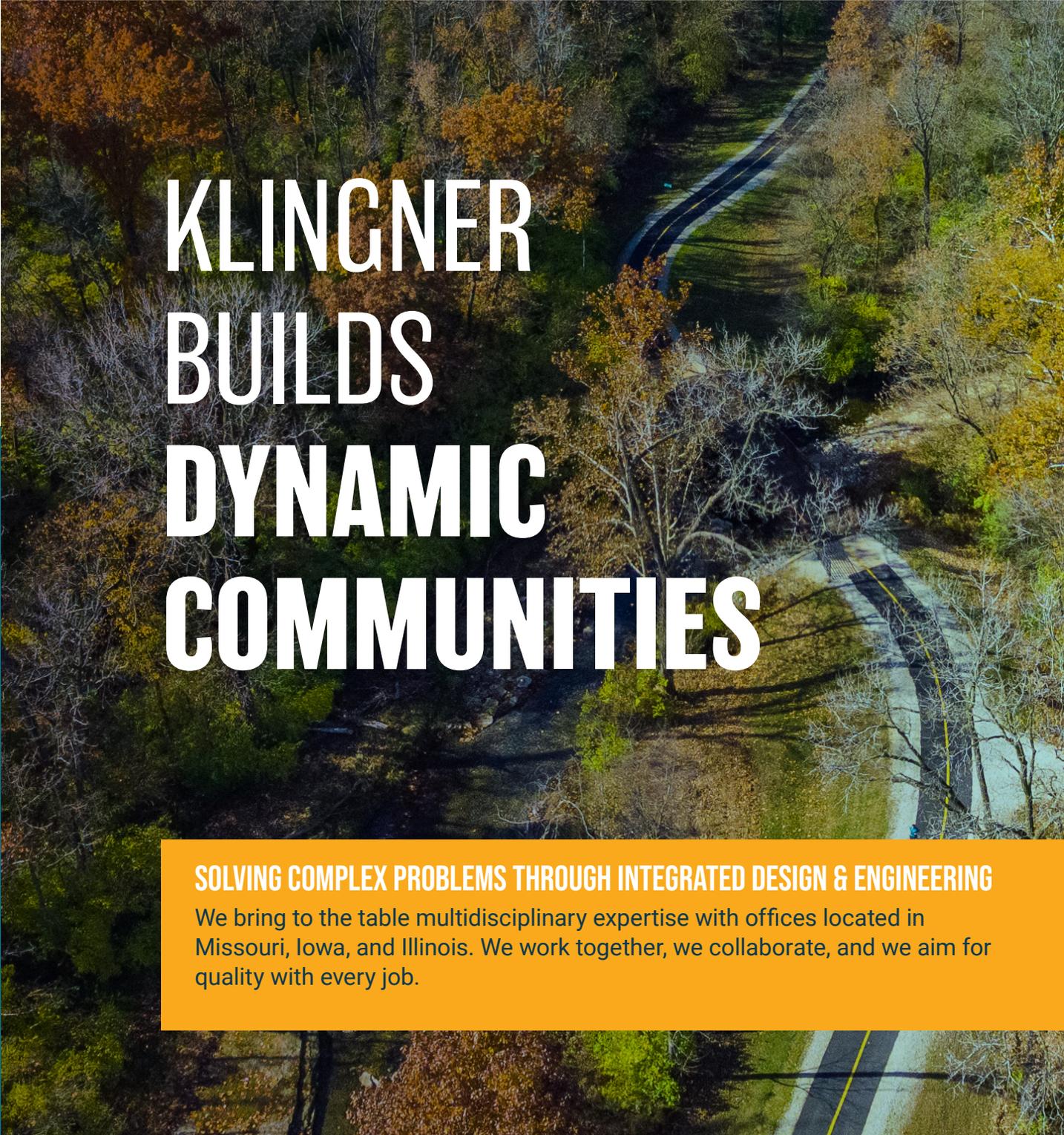


Eric B. Barnes, P.E.
Transportation Department Manager

KLINGNER

& ASSOCIATES, P.C.

Engineers • Architects • Surveyors



KLINGNER BUILDS DYNAMIC COMMUNITIES

SOLVING COMPLEX PROBLEMS THROUGH INTEGRATED DESIGN & ENGINEERING

We bring to the table multidisciplinary expertise with offices located in Missouri, Iowa, and Illinois. We work together, we collaborate, and we aim for quality with every job.

TRANSPORTATION STRUCTURAL CIVIL GEOTECHNICAL MEP ARCHITECTURE
CMT INSPECTIONS SURVEYING ENVIRONMENTAL WATER RESOURCES WATER / WASTEWATER

KLINGNER.COM

KLINGNER... CREATING YOUR TOMORROW.

As a family- and employee-owned firm, Klingner is dedicated to serving our communities and maintaining a strong commitment to the successful completion of each project. We value right-sized and innovative solutions, prioritizing our clients' project scopes, budgets, and schedules. Our collaborative approach and deeply-rooted values prioritize delivering quality results while building lasting relationships.

HISTORY & LOCATIONS

Klingner has been providing the Midwest with professional services for 120 years. Originally started in 1905 as Bushnell Engineering, William H. Klingner joined Bushnell and his partner McCann in 1936. After incorporating Klingner & Associates, P.C. in 1985, the firm experienced years of steady growth, mergers, and expansions. Our locations include Columbia, Hannibal, and Cape Girardeau, MO; Quincy, Galesburg, and Carbondale, IL; and Burlington, Pella, and Davenport, IA.



**WORKING AND LIVING IN OUR COMMUNITIES
MEANS EVERY PROJECT HAS A PERSONAL IMPACT**

THE KLINGNER ADVANTAGE: A SMALL FIRM WITH HIGH STANDARDS

Whether we're engineering a new roadway, intersection, or bridge or surveying and drilling for a major pipeline, our staff operates with the same three drivers: stay agile, studied, and innovative. Practical engineering backs this approach. We use calculations and testing to create durable, efficient environments that are effective

and visually appealing. Our architects and interior designers expand upon the experience—knowing that finish selections, lighting, and furniture can be as transformative as a wall of windows. At Klingner, we don't just design projects; we craft lasting experiences.

THE SERVICES WE PROVIDE

- ✔ Bridge Design
- ✔ Roadway Design
- ✔ Intersection Design
- ✔ Surveying
- ✔ Geotechnical Engineering
- ✔ Constr. Materials Testing
- ✔ Construction Observation
- ✔ Gen. Civil & Structural
- ✔ Architecture & Interiors
- ✔ Mechanical & Electrical Design
- ✔ Wastewater Disposal
- ✔ Hydraulics & Drainage
- ✔ Environmental - NEPA
- ✔ Public Meeting Support
- ✔ USACE Permissions



For the past eight years,
Klingner has maintained an

87%
repeat client rate

Today, Klingner serves municipalities with populations as small as 300, Fortune 500 companies, and some of the largest private industries in all of North America. We care about our projects and clients and are always striving to provide tailored solutions.

SUPPORTING CLIENTS DEEP UNDERGROUND & GROUND-UP

At Klingner, we group our services into four key sectors with some overlapping responsibilities that reinforce quality. We have the staff to perform many services in-house. We also place incredible value on our professional partnerships.



Vertical Sector:

This is about design from the ground up. We handle everything from the architectural design to structural supports as well as critical infrastructure like the plumbing and electrical systems. We turn a plot of land into a tailored experience.



Horizontal Sector:

Here our focus is site / civil and transportation-based—things like the site, roads, bridges, and trails. We design the layout, manage drainage, and make sure everything on the ground is planned well for the end user.



Field Sector:

This sector is on-site. They handle crucial geotechnical and surveying services, construction materials testing, construction observation, and more. They verify that construction is in line with the plans and specifications.



Water Sector:

We design pump and lift stations, wastewater and water treatment plants, flood walls, flood gates, and so much more. We also conduct drainage studies that protect entire communities.



CONTACT US:

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Transportation Director
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HAVE A QUESTION? REACH OUT TO US!

Klingner has many ways to contact us with questions or comments. We also value client feedback. Never hesitate to reach out!

KLINGNER: A TEAM PLAYER



TRANSPORTATION

Klingner's engineers have designed or rehabilitated over 400 roadways, freeways, streets, and bridges in the past 15 years. **Key Services:** Highway & Street Design, New Bridge & Bridge Rehabilitation Design, Bridge / Culvert Hydraulics & Hydrology, NBIS-Certified Bridge Inspections & Rating, Signalized & Roundabout Intersections, ADA Corners & Sidewalks, Stormwater Management, Traffic Studies & Modeling



CIVIL/SITE

We design outdoor spaces that are functional and optimized for end users, coordinating project details from site grading to parking lot designs. **Key Services:** Site Layout Design, Parking Lot Design & Rehabilitation, Utility Design, Landscaping & Hardscapes, Master Planning, Parks & Trails, Site Development, Drainage Design / Studies, Stormwater Management, Grading Plans, Site Lighting, Utilities Planning, Permitting Traffic Studies & Modeling



STRUCTURAL

With multiple licensed Structural Engineers and technicians, we manage projects of varying sizes and complexities with demonstrated expertise. **Key Services:** Structural Evaluations, Structural Rehabilitation & Repair, Historic Preservation, Commercial & Institutional Structures, Industrial Structures, Foundation Systems, Earth Retention Systems, IBC Special Structural Inspections



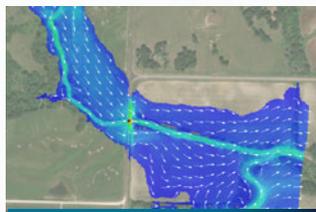
ARCHITECTURE

We work with clients throughout planning and programming to develop and prioritize needs. We also maintain a focus on building life expectancy and life cycle costs. **Key Services:** Feasibility Studies, Building Evaluations & Code Studies, Programming, Project Design from Concepts through Construction Documents, Bidding / Negotiation Assistance, Construction Administration



MECHANICAL / ELECTRICAL / PLUMBING

Our engineers design building systems that consider life cycle costs and technological trends to deliver client solutions within budget. **Key Services:** Plumbing & Electrical Design, HVAC, Indoor Air Quality, Central Heating & Chiller Plants, Lighting Design, Emergency / Backup Generator Design



WATER RESOURCES

Nationally recognized for drainage design and flood control, we leverage modeling and regulatory experience to provide comprehensive, forward-thinking solutions. **Key Services:** Culvert Hydraulic Analysis, 404 / 408 Permitting, Stream Bank Erosion Stabilization, Pump Station Design & Rehabilitation, Levee Design & Certifications, Port Design & Feasibility Studies



WATER / WASTEWATER

We have provided solutions for municipalities, industries, and more, addressing water and wastewater treatment and disposal of wastewater. **Key Services:** Treatment, Collection & Distribution System Design / Planning / Improvements, Sewer & Water Mains, Water Storage, Lift & Pump Station Design / Rehabilitation



GEOTECHNICAL

Our engineers and technicians investigate subsurface conditions, assess site risks, and contribute information vital to lasting designs. We operate multiple drill rigs with USACE-validated laboratory facilities. **Key Services:** Hollow Stem Auger Drilling, Mud-Rotary Drilling, Cone Penetration Testing, Over-Water Platform / Barge Drilling, Continuous Sampling, Monitor Well Installation, Wireline Rock Coring



CONSTRUCTION MATERIALS TESTING

Klingner's engineers and technicians utilize construction procedures and standards of as well as hold key certifications from ASTM, ACI, and applicable State Transportation Departments. **Key Services:** On-site Observation, Field Measurements, Quality Calculations, Material Verification & Documentation Review, Project Administration, Pay Request Evaluations, Daily Field Reports



SURVEYING

Klingner's surveyors have a reputation for accuracy that is known throughout the region. Our team integrates robotic total stations, GPS receivers, digital levels, and survey-quality drones for data capture. **Key Services:** Route Surveys, Cross Sectioning & Profiling, Construction Layout & Staking, Topographic Surveys, Easements & Right-of-Way, ALTA / NSPS Land Title Surveys, Bathymetric Surveys, 3D Scans, Machine Control, Digital Terrain Models

Learn More On Socials

Want to learn more about the people and projects that make Klingner great? Connect with us on social media! We regularly share insights into our work, behind-the-scenes looks at our projects, and features on our incredible professionals. Follow us on LinkedIn, Facebook, our website, and other platforms to see how we're building better communities, one project at a time.

Check Out Our Website

 **Facebook**
KlingnerAssociatesPc

 **Instagram**
klingner1905

 **LinkedIn**
Klingner & Associates, PC

