



**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: Quigg Engineering Inc.

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Contact Email

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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**



Introduction

Quigg Engineering Inc (QEI) is pleased to submit this letter of interest for on-call services for **Construction Inspection** in response to your November 3, 2025, solicitation. This contract will be managed and executed from our St. Louis office. QEI is current in all categories on MoDOT's approved consultant pre-qualification list including LPA requirements.

Quigg Engineering Inc. (QEI), a woman-owned engineering firm, has provided services since 2006. QEI now has over 90 employees. Our primary focus is delivering services to the transportation industry. We serve MoDOT from our St. Louis office, which opened in 2016 and has produced several projects for MoDOT.

General Experience of Firm

QEI provides services necessary for inspection, management and completion of rail, utility, roadway, structural, environmental and aviation projects. We verify that our work and that of the contractors is properly executed, completed in a timely fashion, and conforms to the plans, specifications, and requirements of the construction contract. We have been providing construction inspection services since our company's inception in 2006. This experience has been gained in Missouri, Illinois and Iowa DOTs, along with Illinois Tollway and several municipalities.

We provide the following services: Construction Documentation, PCC/HMA Inspection, ADA Design Compliance, Nuclear Density Testing, Subgrade/Subbase testing, Stormwater Pollution Prevention Plans (SWPPPs), NBIS Bridge Inspection, Evaluation and Reporting, Bridge/Culvert Construction Inspection, Construction/Stake-out Layout Services, Materials Inspection, Site Engineering/Permitting, and Inspection of Utility, Grading & Drainage Construction. QEI staff are provided equipment, material, and all other things necessary for inspection, testing, and administering projects. We have staff trained in many other areas including Precast and Prestressed concrete fabrication. All Inspectors will be trained and certified to perform services according to Division 10 of the Code of State Regulations, Technician Certification Program.

Past Performance

Boschert Creek Detention Facility Repairs, MoDOT SC District: QEI provided inspection services for the remediation and repair of this vital detention basin for Boschert Creek. QEI performed advanced work in documentation of clearing and grubbing activities and the size and location of trees in the basin. Reviewed Traffic Control set up on regular basis to assure conformance with MoDOT Standards. Performed on site Quality Assurance material testing. QA testing frequency per MoDOT's ITP. Testing included concrete air, slump and cylinders, concrete compressive strength and density of earthwork, subgrade and aggregate base. Since work was in a detention basin QEI performed weekly and post rain event erosion control inspections according to MoDOT's SWPPP. Prepared and documented all order records, change orders, pay estimates, material reporting, daily work reports and all other project related correspondence for review and approval by the Engineer. Managed construction records using AASHTOWare Project software. Enforced contract requirements and specifications with the contractors to ensure quality workmanship and timely completion of the work. QEI also provided full survey of the basin for hydraulic review.

IL Route 3, Waterloo Bypass, Monroe County, IDOT District 8: Prime Consultant for this \$22M project in which QEI provided the Resident Engineer and inspectors to monitor contractor operations, perform Documentation of Contract Quantities, complete daily records, provide coordination of utility relocations, public information with stake holders on progress, and timely closeout for the construction of over 2.5 miles of new freeway. The work inspected included earth excavation/embankment, lime stabilization, storm sewer, pipe & box culverts, full-depth HMA, multi-use path, roundabout and several standard at grade intersections and signals.



US Route 30, Bridge Replacement over Cedar River, Linn County, Iowa DOT District 6: Prime Consultant for this \$11M project in which QEI provided the Resident Engineer to monitor contractor operations, perform Documentation of contract quantities, material testing, and supervision of Iowa DOT trainees. Quigg Engineering inspected the traffic control, removal of the 70yr old functionally obsolete 1000-foot two lane bridge on this 4-lane expressway. We performed all

observation, testing, and documentation of drilled shafts, piling, cofferdams, sub-structure, superstructure, and final opening of the new 1000 long replacement structure.



US Business Route 20 (West State Street), Winnebago County, Rockford Illinois, IDOT District 2: Prime consultant for this \$7M gateway project into Rockford from the west. The project included removal and relocation of all utilities, drainage, structures, and obsolete pavement on this mile long project. Quigg Engineering provided resident inspector and other inspection staff to monitor contractor operations, perform Documentation of Contract Quantities, material verification, and closeout of contract records under the supervision of IDOT Resident in efforts to construct this project. The project included wide ROW for a linear park with multi-use path, new 5 lane cross-section, bus turnouts, decorative lighting, new drainage and utilities, improved subgrade, with full depth HMA.

High Speed Rail (HSR), 18 complex crossings, Various Routes, Logan, Macoupin, and Sangamon Counties, IDOT District 6: Prime consultant for this \$20M project in which QEI provided construction engineering services including Resident Engineer/Resident Technicians, construction inspectors, a field liaison, and others to provide full documentation and QA field testing of the individual railroad crossing contracts from the pre-construction meeting to project close out. Projects involve earth excavation/embankment, lime stabilization, storm sewer, pipe culverts, full-depth HMA, PCC pavement, box culverts, curb and gutter, and signal interconnects.

I-80, Scott County, IA, Iowa DOT District 6: QEI is providing construction inspection and project documentation for the 17-mile project, from Walcott to the east side of Davenport, Iowa. Work includes PCC patching, milling, HMA resurfacing, slip-lining pipe culverts, bridge repairs, guardrail and cable rail installation, placement of embankment and aggregate shoulders, and pavement striping.

IL 47 from north of I-80 to Sherril Road in Grundy County, IDOT District 3: Prime Consultant for this \$42M project in which QEI provided the Resident Engineer and support staff to monitor QC, complete Documentation of Contract Quantities, complete measurements, and daily records, etc. for the construction of storm sewer, curb and gutter, bridges, additional lanes, and pavement reconstruction to provide two traffic lanes in each direction.

FAP 317 (US 24) in Fulton County, IDOT District 4: Provided Assistant Resident and Documentation Technician, received an Excellent Evaluation for Phase III services for the reconstruction of US 24 through Astoria including new storm sewer, curb and gutter, pavement, and sidewalk.

I-72 Bridge Rehabilitation, IDOT District 6: Provided Assistant Resident and Documentation Technician for the inspection and QA testing for I-72, Springfield to Riverton. This involved raising two bridges and reconstructing with new decks, 5 miles of mill and replacing with HMA pavement.

On-Call Construction Inspection, IDOT District 6: Selected in 2008, 2011 and 2016 to provide on-call construction inspection for a variety of projects on an “as-needed” basis at various locations for in the district which encompasses an area of 11 counties with Springfield as the headquarters.

On-Call Construction Inspection IDOT District 8: Provided on-going construction inspection at various locations throughout the district which encompasses an area of 11 counties with Collinsville as the headquarters. Specific work orders have included the bridge carrying Wenzel Road over proposed I-255, a cast-in-place double barrel box culvert and night-time operations for rehabilitation of I-270.

Qualifications of Personnel

Currently, QEI has three staff members certified to perform inspection for MoDOT. Our construction inspection service group is the largest in the company with 30 personnel.



Ross Monk, PE – *Project Manager*, has 24 years of experience directly related to construction contract administration including inspector, resident engineer, field engineer, and Construction Bureau Chief Illinois DOT. He has served as Quigg Engineering’s director of construction and VP for 13 years, working with MoDOT St Louis District, Illinois, Iowa, and Indiana DOT’s and private clients.



Logan Davidson – *Director of Construction*, has over 8 years of broad professional experience in Phase III construction and material inspection, construction management and construction survey. Possesses a strong track record of providing high quality results for sizable, complex, and fast track construction projects in the state of Illinois and Iowa as a Project Manager/Resident Engineer.



Andrew Matheny, EI – *Construction Inspector*, has 7 years of experience as a construction inspector and designer. His background includes QA inspection on major bridge projects such as the Chester Bridge and Horse Island Chute Bridge in Missouri, where he oversaw rebar and formwork, pile and girder placement, concrete and bolt testing, and post-pour inspections. He is certified by ACI for Concrete Field Testing, and is MoDOT CF Tech. tested materials, soil, and asphalt, inspected rebar and footings, and conducted stormwater protection inspections.



Jason Sharp – *Construction Inspector*, has over 8 years of experience in construction materials quality control and fieldwork, specializing in ensuring the safety and suitability of materials for both site workers and the public. He has extensive experience in construction site inspections, as well as in the preparation, documentation, and distribution of construction reports. His expertise includes identifying and mitigating potential safety hazards, conducting ergonomic and job/task hazard analyses, interpreting OSHA regulations, and researching and reporting on chemical safety.

Chris Vollmer, PE – *Construction Inspector*, has over 25 years of experience in bridge design, roadway reconstruction, municipal infrastructure, and building inspection across Illinois, Missouri, and Kentucky. His background includes project management, bridge design, and civil engineering roles with J.T. Blankinship, Bacon Farmer Workman, and the City of Carbondale. Throughout his career, he has demonstrated a strong commitment to quality, safety, and effective infrastructure solutions.

Familiarity/Capability

QEI has a thorough understanding of your delivery process and procedures by delivering a variety of projects for several different districts. Though each district has their preferences, we recognize the Engineering Policy Guide (EPG) provides the construction inspection methodology for all to follow. The EPG also provides weblinks to reference manuals containing additional criteria to be followed. QEI’s staff is proficient with the latest version of MoDOT’s AASHTOWare software for record keeping of inspection projects. We also have staff that are Advanced Work Zone Certified.

Accessibility

We pride ourselves on our service to MoDOT and being responsive to your needs. Our staff has experience delivering projects for MoDOT and will make any project assigned to us a priority to deliver a quality project meeting your schedule. We have inspectors willing to travel to projects locations requiring overnight travel, if needed. We have had the opportunity to provide on-call inspections in the past and look forward to providing this service again. Our strong relationship with MoDOT is built on consistently staffing projects with responsive professionals who have the right expertise for the job.



OUR SERVICES

- Bridges & Structures
- Construction Inspection & Material Testing
- Environmental Studies & Permitting
- Surveying
- Transportation/Civil Engineering
- Traffic Studies
- Aviation
- Site Development

LICENSES / REGISTRATIONS

- 24 Professional Engineers
- 3 Professional Land Surveyors
- 3 Professional Structural Engineers
- 2 Professional Traffic Operations Engineers

***Quality with
Excellence and
Integrity***



QUIGG ENGINEERING INC

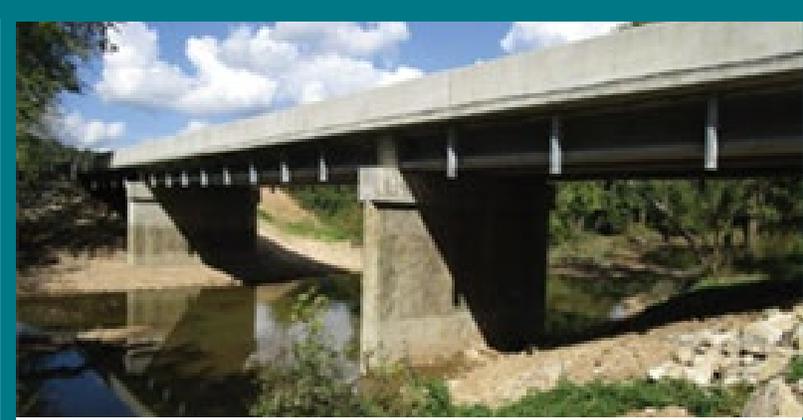
Quigg Engineering Inc. (QEI) has been proudly serving public and private sector clients since 2006 including those located in Missouri when we opened our St. Louis office in 2016. With a team of over 90 professionals across the Midwest, we specialize in a wide range of infrastructure services, including highway and bridge design, land surveying, environmental studies and permitting, site development, traffic engineering, aviation, and construction inspection. Our mission is to exceed client expectations by delivering high-quality projects on schedule and within budget—driven by the expertise and integrity of our dedicated staff.

LOCATIONS

Headquarters: Springfield, IL
2351 S. Dirksen Parkway
217-670-0563

- St. Louis, MO
- Jacksonville, IL
- LaGrange, IL
- West Chicago, IL
- Middleton, WI
- Heinston, LA
- Meridian, ID
- Columbia Heights, MN

BRIDGES & STRUCTURES



Route 94 Bridges over Smith & Lost Creeks
MoDOT NE District, Warren County, MO
Construction Cost: \$1.5M

- Completed the sounding layout sheets, bridge memorandums, final bridge plans and preliminary, right-of-way and final roadway plans for two bridge replacements.
- New bridge over Smith Creek is a 187-foot 3-span NU-girder structure.
- New bridge over Lost Creek is a 128-foot 2-span NU-girder structure.
- Additional work included safety improvements, new entrance and side road connections.



Route B over Ten Mile Creek
MoDOT SE District, Carter County, MO
Construction Cost: \$1.1M

- Completed Hydraulic Report, Preliminary and Final Plans for the bridge replacement.
- New bridge is a 114-foot, 3-span with a spread box beam superstructure with pile cap bents and integral end bents.
- Completed Preliminary, Right-of-Way and Final Plans for the approach roadways.
- Conducted boundary analysis to re-establish the existing right-of-way.
- Conducted topographic and hydraulic survey.

CONSTRUCTION INSPECTION & MATERIAL TESTING



IL Route 3 Waterloo Bypass
IDOT District 8, Monroe County, IL
Construction Cost: \$22M

- Performed the construction inspection services for the widening from two lanes to five lanes of full-depth hot mix asphalt pavement along IL Route 3.
- The project included inspecting box culverts, earth excavation, lime stabilization, storm sewer, bike trail, pedestrian tunnel, noise wall, roundabout, drainage, and signalized intersections.



Bridge Replacement over Cedar River
IADOT District 6, Cedar Rapids, IA
Construction Cost: \$10.3M

- Performed the construction inspection for the replacement of the historic eastbound Cedar River Bridge along Highway 30.
- Supervised the construction, reconstruction, resurfacing of embankments, and the adjoining roadway pavement sections.
- Directed the full-depth pavement patching, drainage systems, and coordinated landscape restoration efforts.

ENVIRONMENTAL STUDIES & PERMITTING



US 67 Safety Improvements
MoDOT SL District
St. Charles County, MO

- Delineated wetlands across multiple seasons under two separate on-call Work Orders. QEI delineated a 51-acre project area in 2020 and a 98-acre project area in 2024.
- Performed desktop review and area reconnaissance to evaluate jurisdictional connectivity of aquatic resources.
- Coordinated with MoDOT and USACE to obtain concurrence on the aquatic resource report findings and jurisdictional connections.



US Route 34 (FAP 313)
IDOT District 4
Henderson County, IL

- As part of the project team with WSP, QEI provided critical support for the completion of the Supplemental EIS for a 9-mile section of US 34, with 6 miles located within the Mississippi River floodplain
- Led the alternative evaluation, presented at public meetings, and contributed to EIS sections for farmland, ecology, special waste, and community impacts.
- Coordinated with agencies and developed EIS exhibits.
- Performed TNM 2.5 modeling, authored the noise study report, and completed noise validation work in the field.

TRANSPORTATION



MO Route 79
MoDOT NE District, Ralls and Pike Counties, MO
Construction Cost: \$8.5 million

- Prepared preliminary and final design plans for 24 miles of shoulder widening, new guardrail, resurfacing, and ADA improvements.
- Designed multiple sidewalk and ADA improvements for 17 intersections through Louisiana.
- Addressed drainage issues associated with sidewalk and ADA improvements.



IL Route 75 Rock River to IL Route 2
IDOT District 2, Winnebago County, IL
Construction Cost: \$9.3M

- Designed ADA complaint sidewalks for bicycle/pedestrian accommodations including the implementation of the Complete Streets Policy and access to 100-year-old buildings.
- Designed roadway, multi-use path, geometrics, pavement, drainage, signing/stripping, earthwork, and erosion control.
- Served as sole designer, completing field surveys, ROW plats, and construction documents

SURVEYING



MO Route 100 over Shawnee Creek
MoDOT CN District, Osage County, MO
Construction Cost: \$708,000

- Conducted topographical and hydraulic surveys, boundary research, and established existing right-of-way.
- Prepared property plats for new right-of-way taking.
- Developed the preliminary and final bridge plans.
- Developed preliminary, right-of-way, and final plans for the approach roadways
- Prepared drainage plans and added backflow preventers to keep the water in the drainage canal from entering the ditches.



Big Bend over Interstate 44
MoDOT SL District, St. Louis County, MO
Construction Cost: \$7M

- Set survey control and conducted, topographic, utility surveys using a combination of LIDAR and conventional methods.
- Established existing right-of-way and property lines through field work, courthouse document research and as-built plans.
- Designed integral end bents for the bridge replacement.
- Developed ITS layout throughout the project including fiber splicing details.

TRAFFIC STUDIES



NDLSD, E. Grand Ave to W. Hollywood Ave
CDOT, Chicago, IL

- Updated the 2007-2011 crash data information to compile two new reports. The study included identifying hot spots, observation of potential causes, and recommendations for countermeasures.
- Obtained, compiled, and analyzed additional crash data (2012-2016) to produce a Crash Validation Memorandum.
- Assisted with the evaluation of conceptual design alternatives for the overall mainline cross-section of NDLSD throughout the corridor and interchange configuration alternatives.



IL 43 Harlem Avenue
IDOT District 1, Cook County, IL
Construction Cost: \$26M

- Traffic Analysis: Reviewed and balanced data, prepared exhibits, and coordinated with CMAP.
- Geometric Studies: Modeled existing, No-Build, and three alternatives for five intersections.
- Intersection Design: Completed AM/PM capacity analyses.
- Bridge Inspection: Prepared abbreviated BCR for SB Harlem over RR.
- Feasibility Study: Evaluated sidewalk widening and bridge load ratings over CNRR and CSS Canal.