



**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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Firm's Mailing Address: 720 Olive St., Suite 160, St. Louis, MO 63101

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 **Environmental** 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.

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 delivered several projects throughout Missouri.

General Experience of Firm

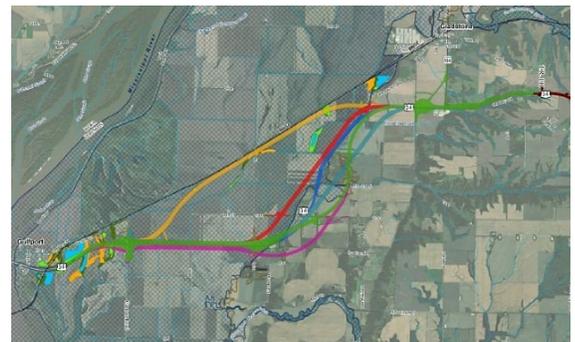
QEI has the technical expertise and ability to support National Environmental Policy Act (NEPA) compliance for complicated transportation projects. QEI understands the critical timing of key milestones of the NEPA process including Stakeholder Involvement and Coordination, developing the Purpose and Need, evaluating Alternatives to be Carried Forward, and the selection of the Preferred Alternative. We have completed Environmental Impact Statements, Environmental Assessments, and Categorical Exclusions for multiple agencies and have also led the public engagement process for multiple projects. Our NEPA experience includes working with state departments of transportation in Missouri and Illinois, including MoDOT, IDOT, Bureau of Railroads, Illinois Division of Aeronautics, Bi-State Development, and METRA.

We have the expertise and ability to respond quickly to field survey requests for wetland delineations, habitat and stream assessments, and specialized species surveys, as well as the analyses required to support a determination of impact to listed species, potential Waters of the US (WOTUS), and other protected resources. QEI understands that reports and analyses developed after field surveys will be used for Section 404/401/408/10 permitting with US Army Corps of Engineers (USACE), consultation with the US Fish and Wildlife Service (USFWS), and coordination with the Missouri Department of Conservation in accordance with the Endangered Species Act, Clean Water Act (CWA), State of Missouri regulations, and MoDOT policies and procedures. We also understand the noise analysis requirements specified in MoDOT's noise policies and procedures encompassed in section 127.13 of the EPG and 23 Code of Federal Regulations (CFR) Part 772. Our noise study experience includes noise monitoring, modeling, and preparation of noise analysis reports.

Past Performance

Supplemental Environmental Impact Statement (SEIS), US Route 34, Henderson County, IL, IDOT District 4:

QEI partnered with AMEC Engineering Inc. (now WSP) on the completion of the Supplemental EIS for a 9-mile portion of US 34, with 6 miles located within the Mississippi River floodplain. QEI led the evaluation and development of alternatives to carry forward, prepared prime farmland analysis and impacts review, prepared the ecology and special waste sections of the EIS, co-authored the community impacts section, edited the EIS executive summary, prepared a list of agencies for coordination, presented information at meetings with agencies and the regulatory community, and developed exhibits for the EIS and public meetings. We performed the TNM modeling, authored the noise study report, and assisted with noise validation work in the field. We also assisted with development of the Design Report Addendum.



Categorical Exclusion Review, Route 100 (Manchester Road) from US 67 (Lindbergh Boulevard) to Big Bend Road, St. Louis County, MoDOT SL District:

QEI was a responsible for the QC review of the CE2 document. The project involved milling and resurfacing 4.9 miles of Manchester Road, drainage improvements, ADA compliant sidewalks, intersection and driveway modifications, bridge replacement over Black Creek, a new pedestrian underpass (Rogers Parkway) and right of way acquisition. The QC review included these elements as well as the maintenance of traffic plan and Section 4(f) analysis of the Rogers Parkway multi-use path.

Wetland Delineations, U.S. Route 67, West Alton, MO, MoDOT SL District: QEI was responsible for delineating wetlands for a proposed U.S. Route 67 highway improvement project. Conducted desktop and field evaluations to determine wetland boundaries and likely jurisdictional status within the approximately 51-acre and 94-acre project areas. We coordinated with USACE and prepared wetland delineation reports in both 2020 and 2024.



T&E Bat Habitat Tree Survey, Rock Island Trail, Gasconade County, MO, MoDOT/Gasconade County: QEI was responsible for identifying potential suitable summer roosting habitat for the federal-listed endangered Indiana bat (*Myotis sodalis*) and northern long-eared bat (*Myotis septentrionalis*) along a proposed 2.8-mile section of Rock Island Trail State Park. QEI identified and documented tree attributes, including species, size, habitat suitability, and location, according to MoDOT LPA survey requirements, within the approximately 17-acre project area. Prepared report text, figures, maps, and tables, and compiled information into the final habitat suitability assessment report.

Environmental Assessment, IL 47/I-88 Interchange Improvements, Sugar Grove, IDOT District 1: QEI led the EA for the widening of Illinois Route 47 from two lanes to four lanes for approximately two miles and the completion of the partial interchange between Illinois Route 47 and I-88. QEI prepared all sections of the EA and participated in NEPA/404 merger meetings with Illinois regulatory agencies. QEI also assisted in the preparation of materials for public open house meetings.

Environmental Impact Statement, US 30, Whiteside County, IDOT District 2: As IDOT District 2’s Environmental Lead, Mark Nardini was responsible for coordinating the review and completion of the EIS. During the time between the DEIS and the FEIS, the FEMA 100-year flood zones were remapped in Whiteside County, which resulted in a major change to the flood zone boundaries within the project area. The revised flood zone mapping resulted in a significant change to the flood zone impacts, which required completion of a supplemental DEIS that was overseen by Mr. Nardini.



Environmental Assessments and Categorical Exclusions, Chicago to St. Louis High Speed Rail, Various Environmental Studies, Various Counties, Illinois Bureau of Railroads: QEI assisted in the NEPA documentation and field review for threatened and endangered species, cover type, agricultural impacts, geology and groundwater reviews, surface water quality assessments, culvert reviews, roadside prairie inventory, tree surveys, wetland location boundaries, and visual assessment. Six corridor sections were assessed: Shipman to Godfrey, Illinois (EA/FONSI), Elkhart, Illinois (EA/FONSI), Pontiac to Lincoln, Illinois (CatEx), Lincoln to Auburn, Illinois (CatEx), Auburn to Shipman, Illinois (CatEx), and Dwight to Pontiac, Illinois (CatEx).

Categorical Exclusion, Rochelle Airport New Taxiway, Ogle County, IL, Rochelle Airport Authority: QEI was responsible for preparing the Categorical Exclusion for the removal and relocation of the airport taxiway and the milling and resurfacing of the existing 4,220-foot runway. The Categorical Exclusion was processed according to Federal Aviation Administration (FAA) Order 1050.1F NEPA requirements. Additionally, the taxiway was located partially within the 100-year floodplain of the Kyte River, which required acquisition of a county floodplain development permit.

NEPA Alternatives Analysis, TR 93 from Cambria Road to County Line Road Extension, Williamson County, IDOT District 9: QEI was responsible for the evaluation of impacts for three (3) alternative alignments for a 1.5-mile public roadway expansion and extension project. QEI coordinated with stakeholders to determine an effective methodology for rating each alternative, resulting in the selection of a preferred alternative which met project objectives while minimizing impacts to sensitive environment resources, which included wetlands, streams, and cultural resources.



Noise Studies, I-39/US 20 Interchange to the Harrison Avenue Interchange, Rockford, Winnebago County, IL, IDOT District 2: This major project involved reconstructing the 4-lane interstate to a 6-lane configuration along with new interchanges at US 20 and Harrison Avenue, grade changes, and a new bridge structure over the Kishwaukee River. Mr. Nardini recorded noise readings at various receptors along the corridor, performed technical review of the noise analysis report, and coordinated the notification of the report with the city and county.

Qualifications of Personnel



Mark Nardini has over 30 years of environmental and project management experience. Preceding his employment with Quigg, he served in various environmental supervisory roles within IDOT. Mr. Nardini’s experience includes overseeing, coordinating, and writing environmental documentation for large-scale transportation projects in accordance with all aspects of NEPA. He has extensive experience with Federal and State agencies which includes working in conjunction with the Federal Highway Administration (FHWA). Mr. Nardini has completed FHWA NHI noise modeling training, and has conducted noise measurements, analysis, and reviews for multiple transportation projects.



Rich Nowack has over 40 years of environmental and project management experience. He served as the Environmental Services Manager with Quigg from 2008 until 2016 and now serves as Environmental Services Technical Advisor. Preceding his employment with Quigg, he served as the IDOT Natural Resources Unit Chief, followed by the role of IDOT Roadside Manager. His broad experience includes overseeing, coordinating, and writing environmental documentation for large scale transportation projects in accordance with all aspects of NEPA. He has extensive experience working alongside Federal & State agencies, including the FHWA. In addition, he has led public involvement activities for complicated NEPA-related transportation projects.



August Gremaud has over 4 years of consulting experience in environmental permitting as well as SWPPP preparation and inspections. His natural resource survey experience includes wetland delineations, habitat assessments, vegetation surveys, ornithological and endangered species surveys, and wildlife identifications of birds, insects, and plants. His laboratory experience includes vegetative surface area analysis, DNA extraction, and preparing academic reports. Additionally, he has experience with the handling and animal husbandry of common and endangered herpetofauna as well as insects and small rodents at an AZA-accredited facility.



Francis Nelson, PE, has over 25 years of civil engineering experience and a variety of project management experience. His diverse technical expertise incorporates the inspection and design of countless roadway and airport pavements, in addition to transportation and highway design, erosion control and landscape design, environmental permits, project management, construction management, noise studies, pavement management systems, utility coordination, and consultation. Mr. Nelson has completed FHWA NHI noise modeling training and has conducted noise analysis reviews for multiple transportation projects.

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 planning and design methodology for all to follow. The EPG also provides the necessary design criteria or weblinks to reference manuals containing additional design criteria to be followed. QEI has an established performance record of delivering projects where federal funding is involved as well as for private sector clients. Our staff have solid working relationships with MoDOT, Illinois DOT, FHWA, USACE, USFWS, and multiple state environmental regulatory agencies, which gives us the ability to successfully deliver NEPA compliance documents that meet federal and state requirements.

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 provided high-quality services through a blend of remote and in-office work supported by our cloud computing provider the past ten years. Through the use of this technology, we are able to communicate quickly through the use of screen and file sharing. However, we understand the importance of meeting face-to-face to collaborate when needed. 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

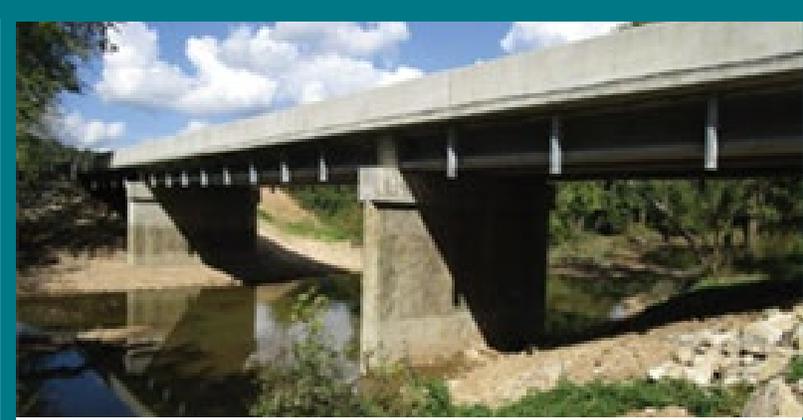
Quigg Engineering Inc. (QEI) has been proudly serving public and private sector clients since 2006 including those located in Missouri when we opened our St. Louis office in 2016. With a team of over 90 professionals across the Midwest, we specialize in a wide range of infrastructure services, including 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



NDSLSD, 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 NDSLSD 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.