

November 13, 2013

MoDOT Central Office – Local Programs Administrator
MaryAnn.Jacobs@modot.mo.gov

RE: Letter of Interest for
Roadway Design Services

Poepping, Stone, Bach & Associates, Inc. (PSBA) has extensive experience in all facets of roadway design services and we have the qualifications and experience to complete these roadway design services in a manner that will more than meet your expectations. PSBA is well known for our commitment to completing projects on time and within budget. PSBA has completed numerous roads, highways, bridges and repair design projects within Missouri, Illinois & Iowa. There are more detailed descriptions of a few of these projects below. Our staff, location, experience and dedication to providing quality-engineering services make us uniquely qualified to undertake this challenging assignment. **PSBA** is an employee owned firm with over 45 years of experience in providing a full range of engineering, GIS & surveying services to governmental, commercial & industrial clients.

Project Experience:

- ◆ **Rolling Hills Road Improvement, Boone County, MO.** PSBA led the planning process which included developing a new alignment, facilitating right-of-way acquisition, coordinating geotechnical investigation and relocating several major utilities. The selected urban section includes 4 lane curb and gutter with a raised median, Storm Water collection, a bike lane, sidewalk, and Multipurpose Trail. Final plans included design of a box culvert, closed stormwater system, intersection at State Rte WW, Cottage Lane, and Columbia Gorge Parkway as well as a temporary intersection at New Haven. PSBA also developed traffic control and staging plans that allowed continuous egress and ingress from the Parkway.
- ◆ **48th & State Roundabout Study, Adams County, IL.** PSBA is currently completing a Feasibility Study and Intersection Design Study (IDS) of traffic control options for the proposed intersection improvement at 48th and State Streets in Quincy, IL. The feasibility study compares two alternatives for the improvement of operations and safety of the subject intersection. Specifically, the installation of traffic control signals versus construction of a roundabout. Existing traffic data was collected, and accidents for the last five years were provided by the Adams County Highway Department and the City of Quincy. Capacity analyses were performed for both alternatives for comparison of their operation effectiveness, and each alternative was analyzed as a potential countermeasure for the accident types recorded for their effectiveness on safety. Estimated construction costs were compared and an alternative is recommended.
- ◆ **Design of US 34 (FAP 313) from TR 111 to TR 190, Henderson County, IL -** PSBA provided engineering services required for Phase II contract plan preparation from TR 111 to TR 190, approximately 5.1 miles. The Phase II work included route surveys (pick-up), land surveys, highway drainage design, preparation of type, size, and location plans, structure plans, roadway plans, specifications, and estimates for the project, which is predominantly on a new four-lane expressway on new alignment. The scope of work involved new interchange construction, side road relocations, and structure plans.
- ◆ **Missouri Avenue Reconstruction, Keokuk, IA.** PSBA was hired by the City of Keokuk to complete the reconstruction of approximately 1,264 feet of Missouri Avenue from “F” Street to the Soap Creek Bridge. PSBA completed the Concept Statement, topographic survey for design, preliminary plans, final plans and a final cost estimates. PSBA also provided all construction staking services, assisted the city in construction observations and provided PC Concrete plant inspection and gradation testing for the project
- ◆ **Reconstruction of Stardust Drive Hannibal, MO.** PSBA provided the City of Hannibal with professional services for the planning, design and construction inspection of the desired improvements. The Engineer determined the needs of the City of Hannibal for the project; conducted topographic, property and utility surveys sufficient to develop plans for the project;

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 801 BROADWAY, SUITE 224 P. O. BOX 190 HANNIBAL, MO 63401 PHONE 573/406-0541 FAX 573/406-0390

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arranged for subsurface investigations; conducted hydraulic studies, prepared alternative designs and cost estimates, developed preliminary plans, and recommended to the City of Hannibal the best overall general design based on those studies; submitted copies of preliminary plans, estimates and studies for review by the City of Hannibal and the Missouri Department of Transportation (MoDOT). Based on approvals of the preliminary plans; prepare detailed construction plans, cost estimates, specifications and related documents as necessary for the purpose of soliciting bids for constructing the project. Provision was made in the contract documents for that portion of the work that will be performed by the City of Hannibal's forces; where required, bridge structures were designed in accordance with the Guide Specification for Seismic Design of Highway Bridges, as published by the American Association of State Highway and Transportation Officials; secured adequate property title information, determined right-of-way requirements, prepared right-of-way plans, and assisted the City of Hannibal in acquiring the right-of-way deeds needed for the project; ensured compliance with water quality requirements by coordinating with the Missouri Department of Natural Resources and the U.S. Army Corps of Engineers and also insured compliance with the requirements of the Federal Emergency Management Agency (FEMA); ensured compliance with historic preservation requirements through coordination with the Missouri Department of Natural Resources, and arranged to have the site examined by a qualified archaeologist on a subcontract basis; and ensured compliance with all regulations in regards to noise abatement and air quality; and provided the City of Hannibal with sets of completed plans, specifications and cost estimates for the purpose of obtaining construction authorization from the Missouri Department of Transportation.

- ◆ **Reconstruction of New Street, Kirksville, MO.** PSBA was retained by the City of Kirksville, Missouri to prepare design plans for the replacement of a structure on New Street over Steer Creek. The design option selected consisted of a new triple barrel reinforced concrete box culvert (12' x 9') that is 85'-3" long including headwalls. This enlarged structure required the reconstruction of New Street and a portion of Burton Street. The street replacement portion of the project included replacing 637 lin. ft. of existing bituminous surface on New Street with a 28 ft. wide concrete street with curb and gutters, storm sewers, drop inlets, and paved entrances. Improvements to Burton Street included 104 lin. ft. of a 24 ft. wide concrete street with curb and gutters, storm sewers, drop inlets, and paved entrances. PSBA consulted with the Owner and Missouri Department of Transportation office in Macon. The Missouri Department of Transportation did a final review of the project before construction.
- ◆ **Reconstruction of Avenue M – 23rd to 25th Street, Fort Madison, IA.** The project includes new ADA accessible sidewalk ramps at the intersections and minor improvements to the storm sewer system within the project limits. PSBA completed engineering surveys, prepared preliminary and final plans and drafted contract documents. Contract documents included the advertisement for bids, instructions to bidders, bid form, standard general conditions, supplemental conditions, special provisions and the form of contract. PSBA also prepared the final estimate of construction costs for the project and assisted the city in selecting the lowest responsible bidder to award the contract. Construction Engineering consisted of construction staking (surveying) services; construction observation/inspection services and materials testing. PSBA assisted in coordinating construction activities with the city and with other contractors working in the area.
- ◆ **Design for the Construction of 2nd Street – Bank to Carroll and 15th Street – Fulton to Orleans, Keokuk, IA.** This project involved total reconstruction of approximately four blocks of 2nd Street and two blocks of 15th Street. PSBA completed preliminary and final plans, specifications and contract documents and prepared cost estimates. PSBA assisted in advertising the project for bids, we reviewed the bids received and made a recommendation on awarding the bid. During construction PSBA provided construction staking services and assisted with construction observation when requested. Design of 15th Street was complicated by the fact that the existing street surface was very narrow. Part of the goal of the project was to widen the street to a width comparable to others in the neighborhood and to improve the flow of traffic on the street. Another complicating factor was that the intersection of 15th Street with Orleans Avenue is in a low area that was subject to flooding. A second goal of the project was to improve drainage in the intersection while accommodating the city's sewer separation objectives. The Second Street design was complicated by the fact that there was no existing curb and gutter in the section of the Street. Street, alley and driveway grades were carefully reviewed to make sure construction would not adversely affect the adjoining properties.
- ◆ **Municipal Parking Lot I, 6th & Hampshire, Quincy, IL.** PSBA provided construction plans and drawings, special provisions, estimated cost, and bid documents for improvements to the parking lot surface, lighting and landscaping for the Municipal Parking Lot I located at 6th and Hampshire Street. Items addressed in the project included survey to ensure proper drainage to inlets and alignment to existing curbs and islands, streets, and alleys; removal of existing surface, removal of trees, new surface design, curb/island repair and replacement, radius at new islands; new lighting with associated conduit and wiring; new meter and base location (coordinated with Ameren); dumpster relocation and new dumpster screen; yard hydrant at the NE corner of lot; associated sidewalk repair; removal of parking meter bases; new trees/landscaping.

Key Personnel:

Project Manager - Michael J. Puro (PE) joined PSBA in 2009 and is the Vice President in charge of the Missouri office. He has additional experience working with MoDOT personnel. Michael has project experience in urban and rural roadway design, bridge design, hydraulic analysis of open and close channel flow, sanitary and storm sewer design, drainage analysis, and specification writing.

Project Engineer – Douglas B. Seeber (PE) has over 32 years of experience at PSBA and has served as project engineer on all phases of various civil engineering projects. His engineering project experience includes: transportation studies, intersection design, road/highway design, bridge design, hydraulic analyses and surveys, subdivisions, coal mine reclamation projects, sanitary and storm sewer design, investigations, specification writing, proposals, estimating, construction observation and management of projects.

Project Engineer – Terry Knoke (PE & PLS) is Vice President of the Keokuk, Iowa office. Terry's experience includes several four-lane expressways for the IA DOT, numerous new, and reconstructed, municipal streets, road/highway design, right-of-way design and layout, sanitary and storm sewer design, water main extensions, boat harbor and ramp design, hydraulic surveys and analyses, land surveying, subdivisions, abandoned strip mine reclamation projects, landfill design and closure plans, drainage investigations, specification writing, estimating, construction observation and management. Other responsibilities include: industrial park design, layout and inspection, airport design and construction observation, city utility and zoning, mapping projects, design and administration of projects, and Economic Development Administrator for federally funded disaster recovery projects

Civil Engineer – Tamera Depke (PE) has worked at various times at PSBA since 1998. Her engineering project experience includes: road/highway design, site design, bridge design, hydraulic analysis, storm sewer design, storm water pollution prevention plan preparation, specification writing, proposals, estimating, construction observation and management of projects

Civil Engineer – Zachary Leach (PE) joined PSBA in 2009. His current engineering duties include road and highway design, site design, environmental, general civil work, and material/construction observation. Before joining PSBA, Zach was previously employed by the City of Edwardsville as an Engineering Technician.

Sr. Engineering Technician – Dan Wilson joined PSBA in 2010 with over 22 years of experienced in the civil engineering industry of which 18 of those years were with the North Carolina Department of Transportation. His experience with the NCDOT included surveying, design, highway construction and inspection. Since joining PSBA he has been assisting with the design of roads and highways.

PSBA appreciates the opportunity to present our qualifications to perform on-call professional services. If selected, PSBA will provide the quality product that our clients have come to expect from our firm and we will complete the work within your schedule.

Sincerely yours,

POEPPING, STONE, BACH &
ASSOCIATES, INC.



Michael J. Puro, P.E.
Vice-President of Missouri Office

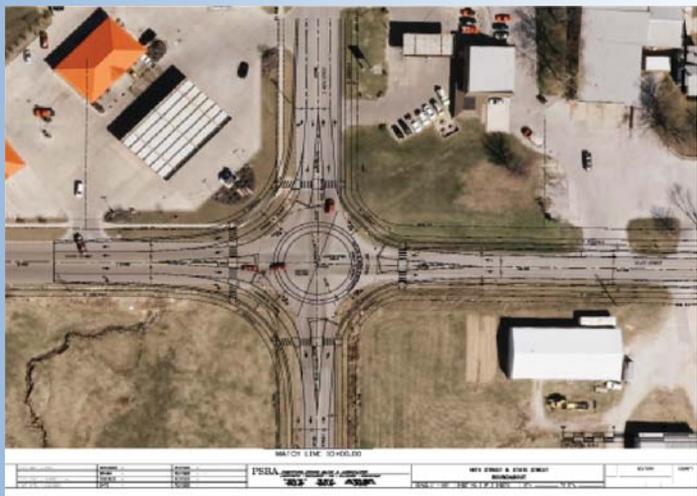
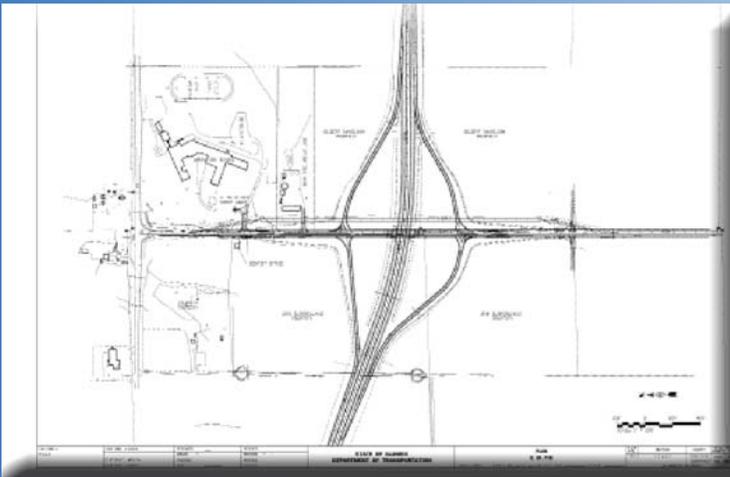
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PSBA

Poepping, Stone, Bach & Associates, Inc.

Engineers, Architects, Surveyors, GIS

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Roadway Design Team



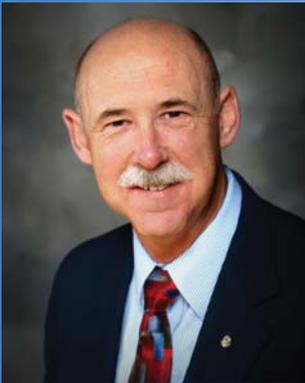
Position: V.P. Missouri Office
Professional Engineer (IL, MO). Since joining PSBA Michael has been responsible for Project Management of all projects located in the State of Missouri. Michael has nearly 12 years of Project Management experience.

Michael J. Purol, P.E.



Position: Sr. Eng. Technician
Dan joined the Engineering Team of PSBA in 2010 with 22 years of experience in the Civil Engineering Industries. His specialties include Highway Design, CAD Specialist, Plans and Specification Preparation.

Dan Wilson



Position: Sr. Engineer
Professional Engineer (IL, MO, IA) Doug's Experience includes: Road Design/Highway Engineering, Municipal Engineering, Abandoned Coal Mines, Subdivisions, Water & Sewer Pump Stations & Main Design, and Bridge & Culvert Hydraulics.

Douglas B. Seeber, P.E.



Position: Civil Engineer
Zachary has been with PSBA since 2009. His experience includes design of Road/Highway, Site, Environmental, and General Civil work. Zachary has worked in the field as both a survey technician and material/construction observation.

Zachary Leach, P.E.



Position: V.P. Iowa Office
Professional Engineer (IL, IA), Registered Land Surveyor (IL, IA). Terry's Qualifications and Specialties include: Street/Highway Design, Sanitary/Storm Sewer Design, Land Surveying, Industrial Park Design, and Hydraulic Surveys & Analysis.

Terry G. Knoke, P.E., P.L.S.



Position: Civil Engineer
Professional Engineer (IL). Tammy's Experience includes: Design of Road/Highway, Site, Bridge, & Storm Sewer. Hydraulic Analysis, Storm Water Pollution Prevention Plans, Specification Writing, and Construction Observation.

Tammy Depke, P.E.

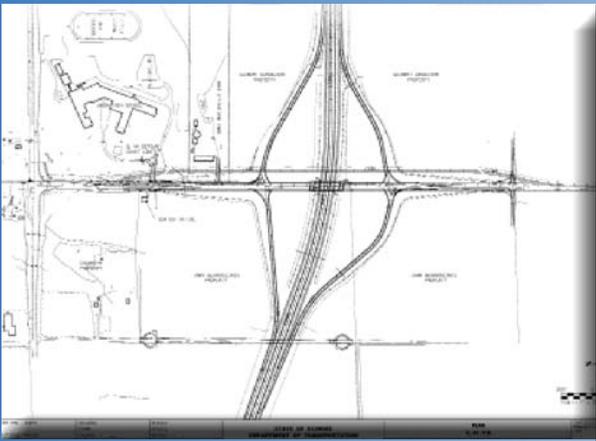
Our Design Team will bring over 100 years of combined experience to your project. Our team specializes in transportation-related services and will help you complete a successful project on time and budget. Please feel free to contact Michael Purol in our Hannibal office at 573-406-0541 to discuss your project in more detail.



Rolling Hills Road
Boone County, Missouri
Client: Boone County Public Works
Contact: Jeff McCann
Construction Cost: \$2.6M
Services: PSBA presented alternate alignments, provided right-of-way documents, utility easement documents, information/exhibits for Public hearings, and construction plans/specifications.



Intersection of 48th and State Street
Adams County, Illinois
Client: Adams County Highway Department
Contact: James Frankenhoff
Construction Cost: \$2.4M(estimate)
Services: PSBA presented alternate intersection designs including different signal and roundabout configurations. After comparing several alternatives a detailed Intersection Design Study was completed for the selected roundabout design.



U.S. Highway 34
Henderson County, Illinois
Client: Illinois Department of Transportation
Construction Cost: \$59.3M
Services: PSBA completed preliminary and final design for 5.9 miles of U.S. 34. The new alignment for the 4-lane expressway bypasses the Village of Biggsville and included 1.8 miles of related side road designs.



Missouri Avenue; Keokuk, Iowa

Client: City of Keokuk

Contact: Mark Bousselot, Public Works Director

Construction Cost: \$354,939

Services: PSBA completed the Concept Statement, topographic survey for design, preliminary plans, final plans, all construction staking services, assisted the City in construction observations and provided PC concrete plant inspection and gradation testing.



Stardust Ave.; Hannibal, Missouri

Client: City of Hannibal

Contact: Mark Rees

Construction Cost: \$516,000

Services: PSBA provided preliminary, and final design documents for the City of Hannibal. This included temporary easements documents, and construction documents for a concrete pavement section, or alternate HMA pavement.



New Street, Kirksville, Missouri

Client: City of Kirksville

Contact: John Buckwalter

Construction Cost: \$250,000

Services: PSBA was retained to prepare design plans for the replacement of a structure on New Street over Steer Creek. This enlarged structure required the reconstruction of New Street and a portion of Burton Street.