



**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:

Bax Engineering Company

Firm Contact Name:

Scott O. Kolkmeier, P.E.

Contact Email  
Address:

skolkmeier@baxengineering.com

Firm's Mailing Address:

221 Point West Boulevard

St. Charles, MO 63301

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**



ENGINEERING

PLANNING

SURVEYING

December 11, 2025

Ms. Ashley Buechter, P.E.  
Local Program Administrator  
Missouri Department of Transportation Central Office  
LPAoncall@modot.mo.gov

RE: Trails & Sidewalks On-Call LPA Professional Services  
Bax Reference No. 16-16983

Dear Ms. Buechter:

Thank you for the opportunity to submit our letter of interest to perform on-call professional services for Missouri's Local Program (LPA). Bax is currently listed on the consultant Pre-Qualification List with Financial Pre-Qualification pending. Bax has submitted necessary documents and we anticipate receiving approval soon. We are very interested in providing LPA professional design services for the category of Trails & Sidewalks. Bax Engineering has worked on multiple LPA projects in the past, and is currently preparing plans for the City of St. Peters Mid Rivers Mall Drive MUP – Rte. N to MO 364 TAP-7303(625). Additionally, Bax recently completed final PS&E for the Hopewell Road Improvements STP-9901(674) for St. Charles County Highway. We therefore understand the various aspects and expectations associated with an LPA project and would welcome the opportunity to continue to provide such services on an on-call basis. The following is a sample listing of similar LPA projects, previously completed by Bax.

**PROJECT NAME**

Woodlawn/Civic Park Resurfacing & Sidewalks -STP 7302 (626)  
Guthrie Road Realignment -STP 7302 (617)  
Veteran's Memorial Parkway at Woodlawn Avenue - CMAQ 5401 (646)  
Elm Street Widening - STP 7303 (613)  
Blackhurst & Hardin Sidewalks - SRTS-INF-H32F (104)  
First Capitol Drive Enhancements-TAP-7302(661)  
Sibley Street Sidewalk - TAP-7303(621)  
Geyer Road Resurfacing – Phase 1- STP 5502(608)  
New Town Boulevard Widening and Reconstruction - STP 7303 (614)  
Thoele Road Widening and Reconstruction - STP 7303 (608)  
Weiss Road at Route N Intersection - STP 5664 (606)

**CLIENT**

City of O'Fallon  
City of O'Fallon  
City of O'Fallon  
City of St. Charles  
City of St. Charles  
City of St. Charles  
City of St. Charles  
City of Kirkwood  
St. Charles County  
St. Charles County  
St. Charles County

The Weiss Road at Route N project included a Great Rivers Greenway (GRG) trail segment incorporated as part of the improvement project. The trail segment was incorporated during the project design with funding of the trail design and construction by GRG. The Geyer Road Resurfacing project in the City of Kirkwood included sidewalk improvements to meet ADA requirements.

BAX ENGINEERING CO.  
221 Point West Blvd.  
St. Charles, MO 63301  
(636) 928-5552  
www.baxengineering.com

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A sample listing of other past sidewalk and trail projects which did not include LPA funding include:	
Highway 94 & 370 Bike Trail (MO DNR Funding)	City of St. Charles
Woodson Terrace Sidewalk Ramp Improvements	City of Woodson Terrace
Boschert Trail Phase III	City of St. Charles Parks
Jim Hennessey Trail (Hwy N - Meadowlake)	City of Cottleville

### **PERSONNEL QUALIFICATIONS**

Scott Kolkmeier, P.E. serves as Director of Municipal Design for Bax Engineering and therefore will be the person responsible for the overall management of the projects, technical decisions, liaison with the local agency and personnel management. Scott holds a B.S. in Civil Engineering from the University of Missouri-Rolla (now known as Missouri University of Science and Technology) and has been with Bax for 39 years. Through this time at Bax, Scott has gained extensive experience in civil engineering with the past 29 years being in Municipal design. Past project experience includes resurfacing projects with ADA compliance, as well as sidewalk and trail extension projects for local municipal and county governments. He is familiar with working with various local, state, and federal agencies. Working with Scott is a team of engineers and design technicians which continually work on municipal infrastructure projects. The primary project design team members that will be assigned to work on these types of projects include Jake McDermott P.E., Todd Flauaus P.E., and Isaac Gebke. Other employees of Bax Engineering will be used as support staff.

Jake McDermott, P.E. is a Senior Project Engineer that recently joined Bax after relocating back to the St. Charles County area from Denver, Colorado. He has over five years of experience in development and municipal projects including development of engineering standards and specification updates. Jake holds a B.S. in Civil Engineering from UMSL-Washington University Joint Program. Todd Flauaus, P.E. serves as Senior Project Engineer at Bax. Todd holds a B.S. in Civil Engineering from the University of Missouri-Rolla (now known as Missouri University of Science and Technology) and has 25 years of experience at Bax Engineering. As part of his responsibilities, Todd specializes in hydrology and hydraulics, providing support in the oversight and design of storm water systems, flood studies, detention analysis, and erosion and sediment control. Isaac Gebke is a Project Engineer at Bax. Isaac received his B.S. in Civil Engineering from the University of Illinois—Edwardsville. He has been with Bax since spring 2024 working on municipal projects, most recently the Mid River Mall Drive Multi Use Path (TAP) project.

An accurate topographic survey including property and right of way information serves a significant role in design. At Bax, design survey services are provided in-house under the direction of Andy Beck, P.L.S. with additional survey support provided by Virginia Humiston, P.L.S. Andy has over 20 years of surveying experience and has been with Bax Engineering for a total of 14 years, while Virginia has 26 years of survey experience. To assist in preparation of our plans and in our field work, we utilize the most current field equipment and computer software. Bax provides drone based aerial topographic survey services as an additional option in collecting detailed survey data under difficult field conditions.

### **PAST PERFORMANCE**

Bax continually completes projects on time and responds promptly to our clients. Bax is familiar with and adheres to the various checklists and requirements associated with the design and construction of

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federally funded projects. Understanding the time sensitive schedule of the project, Bax strives to complete all phases of design on time or ahead of schedule. Bax Engineering maintains project cost information to assist in developing cost estimates for ongoing projects. Following is a sample of recent projects with project description, construction cost information, and client contact information.

**FIRST CAPITOL DRIVE ENHANCEMENT PROJECT (TAP 7302(661))**

CLIENT: City of St. Charles— Brad Temme, P.E. (636)949-3237  
SERVICES: Design of approximately 1,800 lineal feet of roadway and sidewalk improvements, including sidewalks and streetscaping (seat walls, lighting, brick pavers, planting pits and bio-infiltration pits). This project was a continuation of the Fifth Street Enhancement project serving as the Gateway to St. Charles. The project also included storm sewer enhancements, sanitary sewer relocation and water main replacement.  
BIDS: Engineer's Estimate: \$2,500,582 Low Bid: \$2,358,220 High Bid: \$4,307,989

**WEISS ROAD AT ROUTE N (STP 5664(606))**

CLIENT: St. Charles County—Chris Bostic, P.E., PTOE (636) 949-7305  
SERVICES: Survey and design of intersection realignment with change to primary traffic movement from East/West along Route N to North/South along Route N and Weiss Road. During project design, at the request of the County and working with Great Rivers Greenway, a trail extension was incorporated within the project corridor, and accommodations made at the signalized intersection for trail users.  
BIDS: Engineer's Estimate: \$ 2,128,841.70 Low Bid: \$1,959,510.59 High Bid: \$2,469,970.69

**SIBLEY STREET SIDEWALK TAP IMPROVEMENTS (TAP 7303(621))**

CLIENT: City of St. Charles— Jonathan Swagman, P.E. (636)255-6157  
SERVICES: Survey and Design of approximately 2,970 lineal feet of sidewalk improvements along Sibley Street between Duchesne and Lindenwood Avenue with an additional 350 lineal feet of sidewalk improvements along Lindenwood Avenue to Elm Street. Project included narrowing portions of existing street with new curb and gutter and use of bulb outs for traffic calming.  
BIDS: Engineer's Estimate: \$1,231,735.45 Low Bid: \$1,160,271.60 (One Bid Received)

Bax Engineering has assembled a highly qualified team to design sidewalks and trails which may fall under this type of contract. We look forward to working with local agencies on future projects.

Sincerely,



Clifford L. Heitmann, P.E.  
President

# Bax Engineering Company Overview

## INTRODUCTION

Bax Engineering Company, established in 1981 specializes in civil engineering, land planning and surveying for private and public entities. Bax Engineering's in-house resources include over 45 years of project files as well as the survey records of two previous St. Charles County firms. These two firms, St. Charles County Engineering acquired by Bax in 1981, and Kerr Surveying Company of Wentzville acquired by Bax in 1987 provide an extensive basis of records, plats, and surveys from which Bax Engineering grew.

Through this growth, the focus of Bax Engineering has always been to provide the highest quality service, quality in design and survey, as well as a high level of response to our clients. As a way to implement such service, departments were established within the framework of the firm based on particular areas of expertise. Services we provide are:

- Roadway Design
- Trails, Sidewalk, ADA Improvements
- Land Surveying and Topography
- Construction Surveying
- Construction Monitoring
- UAS (Drone) Aerial Topographic Survey
- Civil Engineering & Site Design
- Land Planning

## **LOCATION:**

221 Point West Blvd.  
St. Charles, MO 63301  
Phone (636) 928-5552  
Fax (636) 928-1718

## **CONTACT:**

Scott Kolkmeier, P.E.  
skolkmeier@baxengineering.com

Corporate Professional Licensure (State of Missouri):  
Professional Engineering Corp. 655  
Professional Land Surveying Corp. 144

## PREFERENCE AREA

Bax Engineering is located in St. Charles County. The preference work area is the east central portion of the state or approximately a 100 mile radius from the Bax office at 221 Point West Blvd. in St. Charles.

## **PERSONNEL:**

Engineering	18
Surveying	15
Administration	3
Total Staff:	36

## **REGISTERED PROFESSIONALS:**

Bax Engineering employs engineering and surveying professionals registered in the states of Missouri and Illinois.

Professional Engineers	6
Professional Land Surveyors	3

## **REFERENCES:**

Ms. Liane Sargent P.E.  
Manager, Transportation & Development  
City of St. Peters  
(636) 477-6600 ext. 1307  
lsargent@stpetersmo.net

Mr. Dan Mann, P.E.  
Director of Engineering  
City of St. Charles  
(636) 940-3229  
daniel.mann@Stcharlescitymo.gov

Mr. Michael Padella, MBA  
City Administrator  
City of Cottleville  
(636) 498-6565 ext. 2  
5490 5th Street  
Cottleville, MO 63304  
michael.padella@cityofcottleville.com

Mr. Steve Bender, P.E.  
Public Works Director  
City of O'Fallon  
(636) 379-5560  
sbender@ofallon.mo.us

Mr. Chris Bostic, P.E., PTOE  
Project Manager  
St. Charles County Highway  
(636) 949-7900 ext. 7165  
cbostic@sccmo.org



# Bax Engineering Company Overview

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## PRIMARY ENGINEERING CAPABILITIES

- Site Planning
- Preliminary Plans
- Construction Plans:
  - Roadway and Intersection Design
  - Detention and Retention Facilities
  - Potable Water Mains
  - Low Pressure Sewer Systems
  - ADA Improvements, Trails and Sidewalks
  - Parking Lots
  - Storm Sewers
  - Lake Design
  - Grading
  - Sanitary Sewers, Force Main and Lift Station Design
- Construction Cost Estimates
- Coordination, through review process, with governmental agencies and utility companies
- Assistance with zoning, rezoning, conditional use permits and zoning variances
- Flood Plain Studies
- Specifications and Job Special Provisions
- Construction Administration and Observation

## PRIMARY SURVEYING CAPABILITIES

- Boundary, Right-of-Way and Easement Surveys
- ALTA/ACSM Land Title Surveys
- Topographic and Profile Surveys
- Construction Stakeout:
  - Buildings
  - Sewers
  - Grading
  - Roadway
  - Parking Lots
  - Water Mains
  - Land Development Improvements
  - Cut Sheet Preparation
- Boundary Adjustments, Subdivision and Lot Consolidation Platting
- FEMA Letters of Map Amendment (LOMA) and Revision (LOMR)
- UAS (Drone) Photogrammetry and Lidar Imaging, and Topography
- FEMA Elevation Certificates
- As-Built Surveys

## CURRENT EQUIPMENT & COMPUTER CAPABILITIES

- Bax Engineering Co., Inc. utilizes state-of-the-art hardware and software, including:
  - Hewlett Packard XL5000 HPGL2 Engineering Plotter/Scanner/Copier
- Trimble TSC5 Data Collectors using Trimble Software with:
  - Trimble R-12 GPS Survey Base Stations
  - Trimble R-12i and R980 Rovers
  - Trimble S-5 Robotic Stations
- Unmanned Aerial Vehicle Surveys (drone based)
  - DJI M350 with Zenmuse L2 Module
  - DJI M300 with Zenmuse L1 Module

To aid our engineering and surveying staff with design and drafting of our projects, we use:

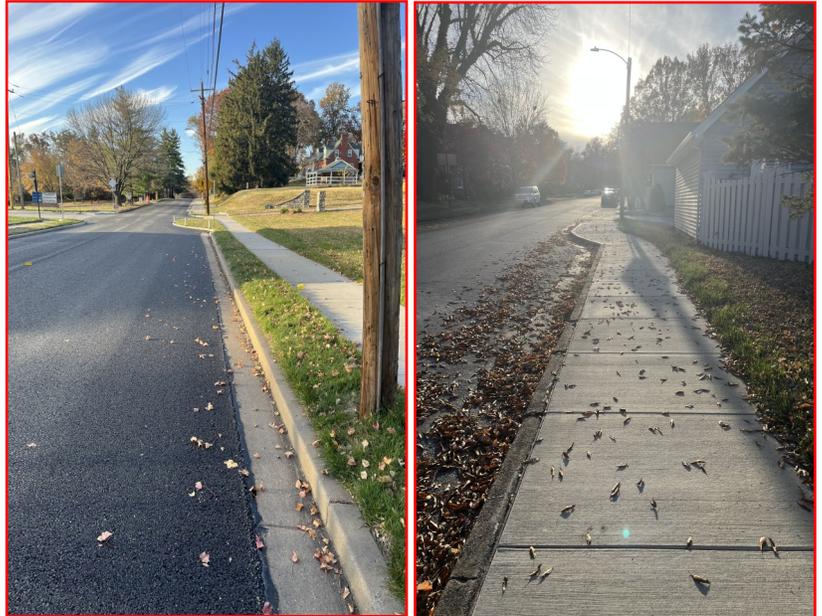
- AutoCad Civil 3D 2022 Software
- Bentley Software
- HEC-1 Flood Hydrograph Software
- HEC-2 Water Surface Profile Software
- HECRAS Water Surface Profile Software
- Pond Pack Storm Routing
- Hydraflow Storm Sewer
- WaterCAD by Bentley
- Pix4D and DJI Terra Drone Processing Software

**“Knowledge from our past; insight for the future.”**



## Sibley Street Sidewalk TAP Improvements—TAP 7303(621) - City of St. Charles

Bax Engineering provided survey and engineering services in the preparation of plans for the addition of a sidewalk along the northeast side of Sibley Street, extending 2970 feet from Duchesne Drive to Lindenwood Avenue, then extending 350 feet along Lindenwood Avenue to Elm Street, a total distance of 3320 feet. Between Duchesne Drive to Gamble Street, the existing street width of 34 feet was reduced to provide traffic calming through the corridor. Other areas along the corridor received curb bulb outs to provide traffic calming. Plans included new curb and gutter, driveway aprons, drainage and storm sewer modifications, ADA compliant sidewalk ramps, and coordination with utilities including water main relocation, and utility pole relocation.



### CONTACT:

City of St. Charles  
Jonathan Swagman, P.E.  
636-255-6157

## Guthrie Road Phase II (Locally Funded)

Phase I of project (included as part of overall contract) included signalization of Mexico Road/ Guthrie Road intersection with sidewalk improvements. The Phase II Project consisted of survey and design services for the reconstruction and realignment of approximately 2,979 feet of Guthrie Road with concrete pavement, curb and gutter, sidewalks, driveways, signage, striping, relocation of existing improvements, and grading. Also included is installation of modular block retaining walls, precast box culverts, junction boxes, approximately 1,348 linear feet of storm water, and approximately 201 linear feet of sanitary sewer improvements.

### CONTACT:

City of O'Fallon  
Ruth Field  
(636) 379-5491



## Highway N and Weiss Road– (STP 5664(606)) - St. Charles County

Bax Engineering prepared plans for this intersection realignment and roadway improvement project. Due to changing traffic patterns and the St. Charles County long range plan, this intersection was redesigned to change the primary traffic movement from East/West along Route N to North/South along Route N and Weiss Road. At the request of the County and working with Great Rivers Greenway, a trail was added to the project and accommodations made at the signalized intersection for trail users. The new 1,550 foot long trail along the Eastern edge of the project was designed to connect the trail built with the adjacent Route N project to the Warren Cottle Trail in Cottleville. Multiple agencies were involved in the review process including St. Charles County Highway, MoDOT, Great Rivers Greenway and the City of Cottleville. This project included federal funding, County Road Board funding and Great Rivers Greenway participated in funding the trail portion.



### CONTACT:

St. Charles County  
Chris Bostic, P.E., PTOE  
636-949-7305

## First Capitol Drive Enhancement Project—TAP 7302(661) - City of St Charles

Bax Engineering led a team for design of the First Capitol Drive Enhancement project. The limits of the project extended from just west of Main Street to Fifth Street. It also extended along the east side of Fifth Street from First Capitol to Madison Street. The enhancement project includes pedestrian improvements providing wider sidewalks, lighting, bench walls and planter boxes. Additional amenities of the project include:

- A mid block crossing to serve hospital visitors near the City's bus stop.
- Planter boxes and bio-filtration areas to treat stormwater runoff.
- Stormwater improvements to address ongoing concerns at area business entrances.
- Incorporating bus stops with shelters for patrons of the St. Charles Area Transit (SCAT). Shelters were established along First Capitol and along Fifth Street near the hospital.
- Bicycle lane markings

### CONTACT:

City of St. Charles  
Contact: Brad Temme, P.E.  
(636) 940-4617

