



**ROADWAY / TRAFFIC ENGINEERING & TEAP**  
**STRUCTURES / TRAILS & SIDEWALKS**

## FIRM OVERVIEW

Farnsworth Group, Inc. traces its origins back to the 1890's, when its predecessor firms provided land surveying and drainage services in Central Illinois. Today, with offices in 23 cities throughout the United States including two offices in St. Louis metro area (St. Louis and St. Charles), we are a multi-discipline leader in all facets of design and technical consulting.

As an Engineering News Record (ENR) Top 500 Design Firm, we can offer 525 engineers, architects, surveyors, scientists, technicians and support personnel providing a full range of services in civil, transportation, oil & gas, environmental, mechanical, electrical, plumbing, structural, and municipal engineering, commissioning, architecture and surveying. Registrations are held throughout the continental United States.



Ranked #207 in 2019 among  
the Top 500 Design Firms by  
Engineering News Record

## ST. LOUIS AREA TEAM

Farnsworth Group works with communities throughout the St. Louis Metropolitan area, county engineers, and Missouri/Illinois Departments of Transportation on a multitude of transportation and building projects. Our expertise includes conceptual planning, feasibility studies, preliminary designs, ROW plans, final PS&E designs and construction inspection. We also offer Professional Traffic Operations Engineer (PTOE) services such as traffic studies, traffic signals, intersection analysis and geometrics, ADA accessible route planning, crossing signals, and traffic control plans.



### PROFESSIONAL SERVICE CAPABILITIES INCLUDE, BUT ARE NOT LIMITED TO:

- Civil/Structural
- Bridge Design
- Transportation Engineering
- Utility Coordination
- Land Development
- Land Surveying
- GIS/Mapping
- Stormwater Management
- Hydrology/Hydraulics
- Architecture
- Landscape Architecture
- Municipal Engineering
- Interior Design
- Mechanical Engineering
- Electrical Engineering
- Plumbing Engineering
- Commissioning
- LEED® Consulting
- Pipeline Engineering
- Water System Engineering
- Wastewater System Engineering
- Railroad Services
- Integrated Controls & Computer Systems
- Professional Documentation Services
- Energy Services
- Referendum Services
- Grant Assistance
- Administrative Services

## CONTACT

Bob Polk, PE, LEED AP  
Principal  
20 Allen Ave., Suite 200  
St. Louis, Missouri  
314.962.7900  
bpolk@f-w.com

[www.f-w.com](http://www.f-w.com)





## Echo Bluff State Park - Full Service A/E / Shannon County, MO

### MODOT CATEGORIES: ROADWAY, STRUCTURES, SIDEWALKS & TRAILS

Farnsworth Group was selected as the prime A/E firm to transform the former site of a hippie music fest into one of the nation's newest state parks. Located in Southern Missouri in the heart of the Missouri Ozarks, Echo Bluff State Park will open its gates to the public this summer after a very aggressive design and construction schedule. The park centers around the beautiful Echo Bluff and the meandering Sinking Creek, located at the bluff bottom. The site includes a contemporary rustic lodge, cabins, amphitheater, bluff-top event pavilion, 60 full-service RV camp sites and walk-in primitive camp sites. The design features a signature 456-foot-long vehicular and pedestrian bridge, 13,350 linear feet of the new paved roadway, multi-purpose paved walkways, hiking/biking trails, zero-discharge wastewater facilities and landscaping. Farnsworth Group worked closely with Missouri State Parks and the Governor's Office on this signature project.



“Farnsworth Group provided bid documents within the prescribed timeframe while dealing with multiple agencies (BNSF, St. Louis County Highways and Traffic and MoDOT). The Engineer's Estimate was 19% under the lowest bid and within 4.2% of the average bid received. I would recommend Farnsworth Group for future Bridge Design projects. - Paul Verheyen, Director of Public Works (former), City of Webster Groves

★ Overall rating received: Excellent

## Murdoch Avenue Bridge Reconstruction / Webster Groves, MO

### MODOT CATEGORIES: ROADWAY, TRAFFIC

Constructed in 1930, the existing concrete bridge over the BNSF Railway tracks had deteriorated to become structurally insufficient as well as deficient in vertical clearance over the tracks. As a vital connector between the City and Interstate Highway 44, the City took action to secure federal matching funds through the BRM program administered by MoDOT. Farnsworth Group was chosen through a QBS process to provide engineering services for the new replacement bridge.



## Edgar Road Turn Lane / Webster Groves, MO

**MODOT CATEGORIES: STRUCTURES, ROADWAY, TRAFFIC**

Farnsworth Group was selected to design the new Edgar Road left turn lane on Webster University's campus. The purpose of the project was twofold: first, to accommodate the increasing number of left turners utilizing the new parking garage on Garden Ave. and second, to decrease congestion and improve both vehicular and pedestrian safety. Coordination with the City of Webster Groves was required to widen the road. The design of the widening had to accommodate and avoid several major underground utilities and a stone wall to remain in place, as well as provide a new ADA path from the intersection to adjacent buildings. Designing finish elevations was challenging due to a very restrictive site, and matching existing elevations on all sides, while providing enough slope for the road to drain and an ADA path.

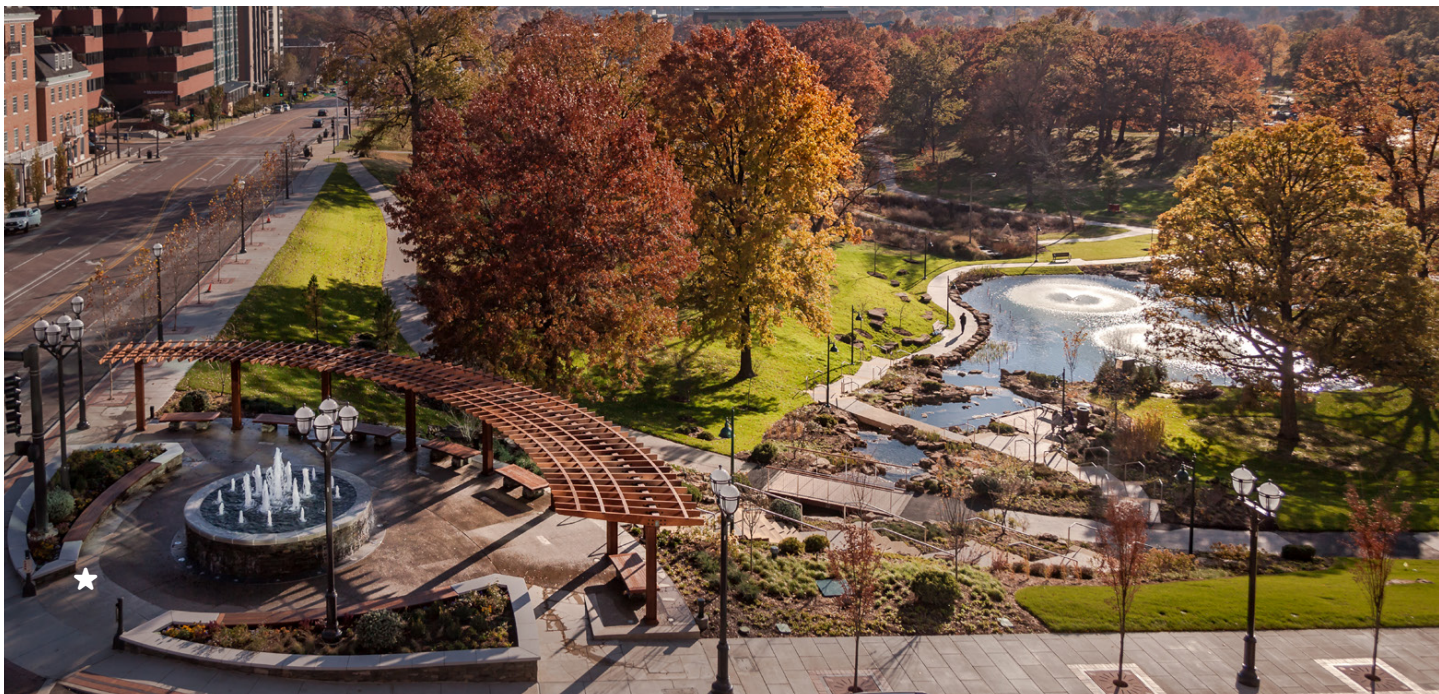


## Egyptian Trail Reconstruction / Monee, IL

**MODOT CATEGORIES: ROADWAY, TRAFFIC, SIDEWALK & TRAILS**

Farnsworth provided detailed design and construction inspection for the Egyptian Trail reconstruction in Monee, IL. The project consisted of a complete reconstruction of an approximate 0.7-mile-long stretch of Egyptian Trail, including ROW acquisition, pavement and storm sewer removal, new storm sewer, curb and gutter, sidewalk, full depth HMA pavement, construction of a new roundabout, street lighting, and pavement markings. The project was federally funded with the Village sharing in the cost. (80% federal funds / 20% local). In addition to design services, Farnsworth provided utility coordination services including the identification of potential conflicts, review of relocation plans, and permitting recommendations to the Village.





## Shaw Park Recreational Trails / Clayton, MO

### MODOT CATEGORIES: SIDEWALKS & TRAILS

Shaw Park is the jewel of the City of Clayton park system. As a part of the City's on-going master plan for Shaw Park, this project consisted of 3,700 lineal feet of new trails as well as the reconstruction of 2,500 lineal feet of existing trails. The new trails allow for better interconnection of the various Park components. This includes connection to the parking lots, playground, various trails throughout the Park, and the GRG Centennial Trail along I-170. As important, the new trail construction provides ADA accessibility. The redesigned trail curves around the north side and gradually climbs the steep slope to connect to a new entry plaza on Brentwood Blvd and is completely ADA accessible. Farnsworth Group provided engineering design of the new and re-constructed trails included plans and profile sheets, engineering details and specifications, and stormwater management to meet MSD requirements.

## County Road 19B Relocation & New Bridge Structure over Tributary to Sinking Creek / Shannon County, MO

### MODOT CATEGORIES: TRAFFIC, STRUCTURES

In conjunction with their design of the new Echo Bluff State Park, Farnsworth Group completed a traffic generation analysis to determine the new park traffic impact to existing MO Rte. 19. All turning movements associated with the new traffic generation in conjunction with our design of the new park entrance on MO Rte. 19 were also studied. That study reviewed all intersection stopping sight distances for adequacy and directed additional tree clearing in the Rte. 19 right-of-way. Additionally, the bridge design team completed hydraulic modeling and structural design of a new superstructure bridge in four months. Farnsworth Group provided complete engineering services including survey, floodplain modeling, preparation of contracts plans, specifications, and estimates.



“ Good work & project commitment to timelines and budget. The State had a good working relationship with Farnsworth Group. - Michael Qutami, Section Leader - Project Management, State of Missouri Office of Administration, Division of FMDC  
 ★ Overall rating received: Above Average