

# FIRM BROCHURE

## VSM

Valerie McCaw, PE, established VSM Engineering in 2003. The business began out of Valerie's home, where she leveraged her background as a former government employee, along with her education, to secure two contracts with Platte County, Missouri, as the Interim County Engineer and the Roads Master Plan Engineer. During this time, Valerie McCaw was the Road Master Plan Engineer for a \$50 million program, including management of contracts for roadway and bridge projects, construction management for road and bridge projects, and utility relocations.

## QK

Since 1972, QK has successfully partnered with cities, counties, state agencies, and other public agencies to develop efficient solutions that have lasting positive impacts on Central Valley communities. Founded on the idea of providing high-quality engineering and planning services to Central Valley cities, we now offer an array of services that contribute to sustainable communities and elevate the quality of life. Our diverse team of 145+ employees provides civil engineering, land surveying, utility coordination, construction management, labor compliance, urban design, landscape architecture, geographic information systems, land use planning, environmental planning and permitting, and biological resources from seven offices. We take pride in the ability to offer in-house, programmatic professional services to serve our diverse clientele.

## SERVICES

 Advanced Unmanned Aerial System Mapping	 Labor Compliance
 Biological Resources	 Land Surveying
 Civil Engineering	 Land Use Planning
 Construction Management	 Landscape Architecture
 Environmental Permitting	 Public Outreach
 Environmental Planning	 Urban Design
 Geographic Information Systems	 Utility Coordination

## OFFICES

| Kansas City | Bakersfield | Clovis | Visalia  
| Hanford | Porterville | Merced

## TEAM

27	Professional Engineers (PE)
9	Professional Land Surveyors (PLS)
2	Licensed Landscape Architects (LLA)
11	Assistant & Associate Engineers
10	CADD Technicians & Designers
4	Construction Managers
15	Land Use & Environmental Planners
16	Environmental Scientists
14	FAA-Certified Drone Pilots
4	Geographic Information System Specialists

## FIRM INFO

<b>Legal Name</b>	Quad Knopf, Inc. dba VSM, a QK Company
<b>Address</b>	1828 Swift Street Suite 206 North Kansas City, MO 64116
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## QUALIFICATIONS OF PERSONNEL ASSIGNED



**JOHN DOYEL, PE (CA), PLS, QSD/QSP, DIRECTOR OF ENGINEERING** 36 years of municipal engineering and public works leadership rooted in a 21-year career with the City of Hanford, helping Central Valley communities solve complex infrastructure challenges with practical, efficient solutions. Notable projects: D Street Pavement Rehabilitation, Santa Fe Trail - Phases 4, 6, & 7, Chowchilla CDBG ADA Ramp Improvements at Various Locations Throughout the City.



**SPENCER SUPINGER, PE (CA & MO), BRANCH MANAGER & SENIOR ENGINEER** 19 years as an enthusiastic project manager and contract city engineer who has designed a wide range of water, sewer, and storm drain improvements, supported small communities in solving complex water system challenges, and helped clients secure critical funding for safe, clean drinking water across the Central Valley. Notable projects: Livingston High School Stadium Entry, California High Speed Rail - Design Services for Merced to Madera, McNamara Park Storm Drain.



**SARAH SCHULTZ, PE (MO), QCIS, QPSWPPP, SENIOR ENGINEER** 17 years of experience in drainage, culvert, and storm sewer design, SWPPPs under NPDES permits, and FEMA-compliant floodplain permitting, hydraulic analyses, and environmental documentation. Notable projects: Nashua Elementary Sidewalks, Liberty Drive Sidewalks & Waterline, Blue River Trail- Martha Truman Connector, North Troost Trail.

## MISSOURI MUNICIPAL SERVICES

VSM/QK has provided services for the following Missouri government agencies:

- City of Camden, MO
- City of Gladstone, MO
- City of Grandview, MO (sub-contractor)
- City of Henrietta, MO
- City of Kansas City, MO
- City of Liberty, MO
- City of Parkville, MO
- City of Riverside, MO
- Platte County, MO
- Jackson County Sports Authority
- KC Streetcar Authority

## ON-CALL EXPERIENCE

- City of Independence, MO
- City of Liberty, MO
- City of Parkville, MO
- City of Riverside, MO
- City of Smithville, MO
- City of Kansas City, MO (sub-contractor)
- City of Kansas City, MO 2015-2025 SLBE Open-End Stormwater Projects
- Kansas City Public Schools (sub-contractor)
- MoDOT
- Unified Government of Wyandotte County
- City of Atwater, CA
- City of Chowchilla, CA
- City of Delano, CA
- City of Exeter, CA
- City of Lemoore, CA
- City of Lindsay, CA
- City of Woodlake, CA

## PAST PERFORMANCE

### K-7 HIGHWAY IMPROVEMENTS AT 43RD AND 75TH STREETS, SHAWNEE, KS

VSM/QK was the project manager for signal improvements at the intersection of K-7 Highway and 43rd Street. Improvements included adding a left-turn signal and signal timing, and replacing the existing mast arm with a longer arm of 60 feet. VSM/QK hired a structural engineer to design a new, non-standard pole base for the long mast arm. The project also included the installation of a permanent concrete median at the intersection of 75th and K-7 Highway and the addition of northbound and southbound left-turn arrows at 43rd and K-7.

### NASHUA ELEMENTARY SIDEWALKS, KANSAS CITY, MO

Prime Time Construction, with VSM/QK as a sub, is providing design and construction services for the Nashua Elementary School sidewalk projects, providing sidewalks for the neighborhood east of the school. The project is a design-build format. There is 10,750 linear feet of new sidewalk that will be designed along the north side of NW. 114th Street between N. Oak and N. Woodland, the east side of N. Virginia Avenue between NE. Cookingham Drive and NE. 112th Terrace, the East side of N. Charlotte Ave between NE. Cookingham Dr and NE. 112th Terrace, and the west side of N. Oak between NE. 113th Street and NE. 114th Street. The project includes the design and construction of four-to-six-foot wide sidewalks, according to ADA compliance. VSM/QK performed the design of sidewalks, curbs, drainage, and ADA ramps and driveways.

### LIBERTY DRIVE SIDEWALKS & WATERLINE, LIBERTY, MO

The City of Liberty, in partnership with MoDOT and VSM/QK, designed ADA-compliant sidewalk improvements along Liberty Drive to close a key gap between Midjay Drive and Red Oak Lane. This project completed nearly three miles of continuous sidewalk, connecting neighborhoods, three public schools, and nearby commercial areas with safe, accessible pedestrian routes. Proposed improvements included new ADA-compliant sidewalks on the south side of Liberty Drive and upgraded pedestrian crossings at Red Oak Lane, Oak Leaf Drive, Wilshire Boulevard, and Midjay Drive.

### BLUE RIVER TRAIL – MARTHA TRUMAN CONNECTOR KANSAS CITY, MO

This segment starts at Minor Park and continues to Martha Truman Road. The 3325 linear feet and 10-foot-wide concrete trail runs along the east side of the Blue River. This trail provides an opportunity for the adjacent neighborhoods and citizens to access the Plaza, Kansas, and Grandview. This project supports the Clean Air Action Plan by providing a non-motorized option parallel to Blue River Road and Holmes Road, which has no bike/pedestrian facility. This project ties into a larger multi-state system (Blue River Greenway and Indian Creek Trails) which connects over 26 miles of trail, connecting employment and residential areas, neighborhood services and amenities, keeping existing mature trees, and promoting non-motorized transportation. Work is located in a FEMA floodplain.

### LINE CREEK PEDESTRIAN BRIDGE HYDRAULIC ANALYSIS & FEMA NO-RISE CERTIFICATION, KANSAS CITY, MO

The Line Creek Pedestrian Bridge is 70 linear feet located south of 64th Street and Waukomis Drive in Kansas City, MO. VSM/QK performed a hydraulic analysis to determine changes in the 100-year flood plain due to bridge construction. Our team modified the Line Creek hydraulic model, various bridge profiles, and abutment configurations.

Documentation for the FEMA No-Rise Certificate was completed.

### NORTH TROOST TRAIL, KANSAS CITY, MO

VSM/QK served as the civil design engineer for 6,600 linear feet of trail from North Troost Avenue connecting Englewood Park to the Northeast Vivion Road Trail. The 10-foot-wide trail was designed to meet ADA requirements and included culverts and a prefabricated 40-foot pedestrian bridge. VSM/QK performed a hydraulic analysis to size the culverts. Through the analysis, VSM/QK discovered cost-saving options by discarding one bridge crossing and using a smaller culvert. VSM/QK also created the Stormwater Pollution Prevention Plan (SWPPP) for this project. Five entrance plazas with neighborhood sidewalk connections were included.

# PAST PERFORMANCE

## MAJOR TRAIL AND SIDEWALK PROJECTS

- Blue River Trail – Martha Truman Connector, Kansas City, MO  
3,325 linear feet and 10-foot-wide concrete trail.
- North Troost Trail, KC, MO  
6,600 linear feet, 10-foot-wide ADA-compliant trail with culverts, a 40-foot pedestrian bridge, hydraulic analysis, and cost-saving alternatives.
- Rock Island Corridor Shared-Use Path, Jackson County, MO  
Utility coordination for a 17.7-mile regional trail corridor stretching from Arrowhead/Kauffman Stadiums through Raytown into Lee’s Summit.
- Winn Road & Antioch Road Sidewalk & Intersection Improvements, Kansas City, MO  
Two-phase project including new sidewalks, intersection upgrades, and floodplain permitting.
- NE 53rd Street Improvements, Kansas City, MO  
Added new sidewalks, curb & gutter, storm sewer, and 70-linear-foot retaining wall with improved pedestrian access.

## ADDITIONAL TRAILS AND SIDEWALK EXPERIENCE

- Highway 9 Connector Trail, Riverside, MO
- Line Creek Trail Pedestrian Bridge, Kansas City, MO
- Little Blue River Trail, Kansas City, MO (Culvert Design)
- Kansas City, MO Trails: Amity Trail, Second Creek Trail, Triangle Trail (Culvert Design)
- Blue River Pedestrian Bridge Trail, Kansas City, MO (Culvert Design)
- Platte City Trail, Platte City, MO
- Jackson County Trail Design, MO

## UTILITY COORDINATION FOR ROADWAY OR BRIDGE IMPROVEMENTS:

- I-29 Bridge and Tiffany Springs Road Overpass Replacement and Street Improvements\*
- I-29 and Tiffany Springs Parkway Interchange\*
- MO-1 and Parvin Road Roundabout\*
- North Jackson Street Improvements
- Garfield Design-Build Street Rehabilitation
- Green Hills and Tiffany Springs Road Roundabout and Street Improvements
- Wornall Road Design-Build, 85th to 89th Street
- Barry Road Widening, East of I-29 to Ambassador Drive
- Pleasant Valley Road, North Brighton to Searcy Creek Pkwy
- Intersection of NE Winn Road and Antioch

\* MoDOT-funded projects

## UTILITY COORDINATION FOR WATER SERVICES DEPARTMENT:

- 34,000 linear feet of watermain replacement in eight projects

## UTILITY COORDINATION FOR LPA MODOT FUNDING

- Waukomis Complete Streets – Englewood to NW 62nd St, 89008260
- Old Tiffany Springs Rd & Bridge over I-29, 89008153
- Tiffany Springs Pkwy & I-29 DDI Interchange, 89008706
- N. Stark KCMO, 89008700

## UTILITY COORDINATION FOR MODOT PROJECTS

- Hwy 1 MoDOT
- Route HH MoDOT, KU0128
- MoDOT ADA Bundles, J4P3268E, J4P3268G, & J4P3268I
- Grant Ave Design Build, BUILD-5901(816)
- Route 1 and Parvin Rd MoDOT, J4S3205