Access Engineering, LLC (Access) is a civil engineering firm dedicated to improving infrastructure for Missouri to promote healthier, happier lifestyles for residents and visitors. Our name is a self-proclaiming mission statement:


Marie Dennis, PE, founded the firm in September 2000. With both private and public sector work experience, Ms. Dennis sought to create a private consulting firm with a focus on benefiting the public. Each member of the Access team is committed to providing innovative, high-quality infrastructure solutions that best benefit the community. Access has extensive experience providing comprehensive professional services throughout each phase of a project. The complete consulting approach allows for seamless transitions between conceptual, preliminary design, right of way, final design, and construction phase services.

Client Satisfaction
Typical clients include government agencies such as DOT’s, Sewer Districts, Municipalities, Parks Districts, Transit Agencies, Neighborhood Associations, businesses and individuals. We hold our client relationships in the highest regard and pride ourselves on maintaining a superior reputation in performance and service to our clients. Access continues to earn repeat business with clients who are happy with our high quality work and customized flexibility in service.

Project Success
Access assures project success by streamlining processes through automation, maintaining up to date technology, monitoring standards as they develop and adhering to project schedules. We have the flexibility to customize solutions for our clients. Maintaining all schedule and budget requirements is a standard procedure for Access on every project.

Advanced Technology
Access uses state of the art computer technology and the most up to date software to produce efficient, quality designs. Plans are produced by a CADD specialist on Microstation/GEOPAK/OpenRoads or Autodesk Civil 3D using your design standards.

Access at a Glance
More than 16 years in business
Over 100 projects completed in Missouri with construction budgets ranging from $5,000 to nearly $30,000,000.

Refined workload capacity analysis process accurately forecasts availability. Access can mobilize quickly and execute projects efficiently.

Our current project work is comprised of 90% repeat clients.

Commitment to Diversity
Access is a DBE/WBE - Certified firm, but we believe diversity extends beyond a certification. We believe that diversity in backgrounds, personalities, and ideas provides an accelerated platform for us to maximize efficiencies, provide the most innovative solutions, and develop the highest level of best practices.
Access has a record of accuracy and innovation in transportation engineering, both motorized and non-motorized design. Our premiere projects depict our expertise in roadway design and bicycle/pedestrian facility design.

**Grant Road Lane Addition, Lighting & pavement Rehabilitation**
Access identified the funding sources, assisted with the grant application writing process, and is the Prime Consultant for the design and construction services for this roadway design and lighting design project on Grant Road from Gravois Road to Pardee Road. The limits of this project also incorporate two major St. Louis attractions, the Ulysses S. Grant National Historic Site and Grant’s Farm.

**City+Arch+River2015: Leonor K. Sullivan**
Access wrote the successful grant application that became the impetus for much of the subsequent funding mechanisms that made this high profile project possible. Access was responsible for all roadway, drainage, ADA accessibility, bikeway, sidewalk, grading, signing, striping, sanitary sewer and lift station design for the project. This high profile project with nearly $30 million construction budget is a premiere example of Access’ fully comprehensive service offerings on roadway reconstruction projects, and ability to coordinate efficiently with multiple stakeholders. Utility congestion, historic preservation, sustainability, raising roadway profile grade adjacent to the Mississippi River, and new off-street bicycle/pedestrian facility design were only some of the elements that offered exciting challenges for Access staff.

**Grant’s Trail Multi-Phase Projects**
Access was the Prime Consultant for this multi-phase, multi-discipline extension of Grant’s Trail through multiple municipalities and unincorporated St. Louis County, providing project management and engineering throughout the planning, design and construction phases of this large-scale project. Specific design elements included a 12’ wide asphalt trail, retrofit of two abandoned railroad bridges, two new parking lots utilizing permeable pavers, stand-alone restrooms, traffic signals on MoDOT, St. Louis County and Municipal roads, lighting, signing, striping, landscaping, fencing, retaining walls, storm sewers, bicycle racks, benches, a custom sign monument, resting areas, and other site furnishings.

**Boyle Metro Station & Chouteau Greenway Phase I**
Bi-State Development Agency was awarded a TIGER grant for the construction of a new Boyle Avenue MetroLink station, an extension of the Central West End Station platform, and a new multi-use bicycle/pedestrian path as part of the Chouteau Greenway. Access is providing the civil engineering services for the new Boyle Avenue MetroLink Station and the new multi-use bicycle/pedestrian path.

**I-64 Lane Additions and Overlay**
This project added an 11-ft lane in each direction along I-64 from Clarkson Road to I-270, associated ramp modifications for the lane additions and an overlay from Clarkson Rd to east of Ballas Rd. Access designed all eight affected westbound ramps and developed preliminary and final signing and lighting plans for the project. Access was responsible for the drainage design for the eastbound lanes and the overlay plans for the project.
water management: storm water and sanitary sewers

Access has exceptional experience providing a broad variety of water management services, including storm sewers, sanitary sewers, combined sewers, streambank stabilization, water quality management and more.

**Holloway Culvert Rehabilitation**
Access was the Prime Consultant for this unique project, which was awarded the ACEC Missouri Award of Excellence and APWA Missouri’s Technical Innovation Award. Access designed the most cost effective and sustainable solution for culvert rehabilitation, as the funding did not exist to replace the deficient culvert. Access’ innovative rehabilitation technique involved milling the existing bottom slab, performing surface hydro demolition, providing modified deck repairs and applying a silica fume concrete overlay.

**FF-11 Fee Fee Creek Sanitary Relief**
Access was the Prime Consultant on this project, which constructed 4,130 lineal feet of pipe sewers and appurtenances to alleviate basement backups and overcharged sanitary sewers in the Fee Fee Creek Watershed. The project consisted of tunneling construction methods with drop shafts up to 40-ft diameter and 50-ft deep. The alignment crosses the I-270 right of way and passes through commercial properties congested with subsurface utilities. Access analyzed probable costs for all project elements, including tunnel drop shafts, Tunnel Boring Machine (TBM) tunnel excavation, Pilot Tube Microtunneling (PTMT) and dewatering.

**OMCI-A: Stormwater Design Picardy Lane Bank Stabilization**
Access was responsible for this stream bank stabilization project which alleviated channel bank erosion threatening properties in Ladue. The design included 400 lineal feet of rock block wall and rock toe protection, and two grade control structures.

**Preliminary Studies: I/I Reduction & Sanitary Relief**
Access has completed a wide variety of preliminary studies to provide preliminary design and cost estimates for inflow and infiltration (I/I) and sanitary relief projects. For I/I projects, Access analyzes previously completed I/I reports for a given area, performs site visits, creates exhibits, develops cost estimates and makes recommendations for private and public rehabilitations. Sanitary relief studies aim to relieve overcharged sanitary sewers and basement backups. Access analyzes the hydraulic models of the given area, performs site visits and creates plan, profile and cost estimates for work required to alleviate the overcharged sewers and basement backups in the area.

**Mason Stormwater Improvements**
Access is the Prime Consultant on this unique stormwater improvements which remedied problematic sinkholes in forested and developed residential areas. Access was responsible for coordination with the homeowners, design of the storm system, earthwork, quantities calculations and ROW drawings. The project team considered multiple alignments for the proposed storm sewer network to minimize storm water entering the sink hole, while preserving as many trees as possible.

**Kortwright Stormwater Improvements**
Access was the Prime Consultant on this storm sewer project, which constructed a total of 1,465 ft of 12” to 30” storm sewer to relieve yard and basement flooding and to provide sinkhole relief. Access identified deteriorating sanitary sewer that could be replaced in the project area within project budget.
Traffic Engineering

Access was founded with a vision of designing healthier, happier lifestyles by providing access to connectivity, access to productivity, and access to opportunity. Traffic engineering through traffic studies, traffic counting, traffic signal design, pedestrian signal design, traffic signal timing and optimization aligns directly with Access’ vision, and has been a primary discipline for Access since its founding.

**West Florissant Signal Interconnect/Upgrade**
Access was responsible for analyzing three intersections in North St. Louis for compliance with MUTCD and ADA standards. Existing accessible paths, landings and ramps were analyzed for ADA compliance and, if necessary, redesigned to meet ADA standards. Typical design elements included directional curb ramps, detectable warnings, accessible path and landing layouts, pedestrian signal heads with countdown timers and accessible push buttons for pedestrian activation.

**Old Gravois Road Traffic Signal Design & Synchronization**
Access designed a new traffic signal at Old Gravois Road and Old 141, and a synchronized system utilizing radio communication for four City-maintained traffic signals and one MoDOT-maintained traffic signal. The system is synchronized through the Master at MoDOT’s Transportation Management Center.

**Carrie Avenue: N Broadway to Hall Street**
This project involved reconstruction and improvements to the street’s surface, sidewalks, lighting, intersections and storm water management system. Access was responsible for traffic studies, traffic signal design, and accessibility design for the project. The traffic signal design incorporated ITS communications via fiber optic for the City of St. Louis and MoDOT. Access also developed the striping plans and traffic control plans.

**Traffic Impact Study: Menard Inc. Industrial Facility**
Access was the Prime Consultant for this Traffic Impact Study following MoDOT’s TIS requirements for a Menard, Inc. distribution facility in Sullivan, Missouri. The study included traffic counts, capacity analysis, freight movement analysis, trip generation and distribution, sight distance, and impacts to level of service. Access prepared the final report with recommended site access improvements.

**Clayton Road Sidewalk & Pedestrian Enhancements**
Access was responsible for traffic engineering services for this 3.5 mile sidewalk construction project. Access provided alignment recommendations for the location study portion of the project, which considered existing traffic signals, bridges, grading and right of way limits in addition to park and school connections. Access developed individual safety studies and construction documents at 10 roadway crossing locations throughout the project area. Solutions included traffic signal modifications, Rectangular Rapid Flash Beacon installations, customized signing and specialized striping solutions.