



MISSOURI  
Laclede Gas Building  
720 Olive, Suite 1660  
St. Louis, MO 63101  
tel/ 314.588.8381  
fax 314.588.9605

ILLINOIS  
Eastport Business Center 1  
100 Lanter Court, Suite 1  
Collinsville, IL 62234  
tel/ 618.345.2200  
fax 618.345.7233

[www.oatesassociates.com](http://www.oatesassociates.com)

November 15, 2013

MaryAnn Jacobs  
Missouri Department of Transportation  
Re: Missouri's Local Program | Construction Inspection

Dear Ms. Jacobs:

At Oates Associates, we provide comprehensive services throughout all phases of projects, from start to finish. We routinely provide design and construction engineering services on infrastructure improvement projects and have well-trained, competent staff to assign.

### **General Experience of Firm**

For over 30 years, Oates Associates has provided municipal engineering services for a range of projects throughout local communities. We have worked closely with municipalities including public works, planning and zoning, parks, city councils and economic development departments. We understand that early coordination with the local agency, as well as residents and businesses who will be impacted by the project, opens the lines of communication to deliver a successful project that meets goals and exceeds expectations.

Our construction engineering services are tailored to fit our client's needs on each project. Our roles on construction projects have ranged from resident engineering and full construction observation to part-time inspection and testing to supplement the municipal staff. During the scoping meeting with our clients, the construction process and schedule is outlined and work plan is developed to identify the services that will be required on the project. This process provides an opportunity to identify the project expectations and assign tasks or services that will be completed by us and our client. We understand that budgets are more than guidelines and this early coordination establishes the roles and responsibilities of the project team to minimize the likelihood of miscommunication, misunderstandings and costly delays during construction.

Our construction engineering services include all associated activities, such as shop drawing reviews, coordination and progress meetings, resolving construction issues, construction observation and material testing. Our staff is trained and certified in various construction testing techniques including concrete, aggregates, and asphalt. Having completed construction services including inspection, staking, materials testing and utility coordination on numerous local agency projects, Oates is familiar with all required documentation. Our staff has received training and have earned the required certifications to provide construction services through MoDOT's Technician Certification Program.

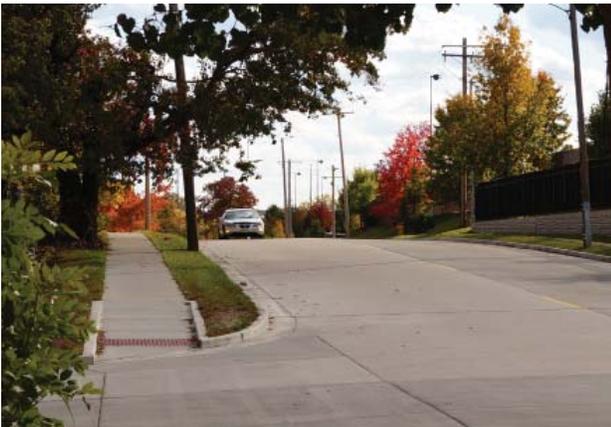
### **Past Performance**

Oates Associates has been involved with every aspect of capital improvement projects utilizing federal funds, from design through construction. We are available for full-time or limited construction engineering services, depending on the needs of the client. Summarized on the next page is a list of projects on which Oates has provided full-time construction engineering services within the last five years. Projects range from local sidewalk projects to a \$21 million expressway expansion.



*Oates Associates provided design services as well as construction observation and material testing, including full time observation, federal and MoDOT LPA documentation, soil, aggregate and concrete material testing for the Stablestone Drive in Chesterfield, Missouri. Improvements included replacement of pavement, curb and gutter and drainage improvements.*

	Funding Source		Service Provided		Personnel	
	Federal	State / Local	Design	Documentation and Testing	Ogle	Costanzo
Banyan Tree Road		•	•	•	•	
Camelot Drive	•		•	•		•
Carl Street	•		•	•	•	
Community Park		•	•	•		•
Curb Ramp Upgrades	•		•	•	•	
Delyte Morris Trail	•		•	•	•	
FAP 310		•		•	•	•
Goshen / Old Troy Road		•	•	•	•	
Governors' Parkway		•	•	•	•	•
Hunter's Ridge Box Culvert		•	•	•		•
Laclede Station Road	•		•	•	•	•
Laclede Station Road Relocation		•		•	•	•
Madison Avenue	•		•	•		•
Main Street in Collinsville	•		•	•	•	•
Main Street in Troy	•		•	•	•	
Mulberry Street Bridge	•		•	•	•	•
North University Drive		•	•	•		•
Ostle Road	•		•	•	•	•
Ridgeview Road		•	•	•	•	
Schwarz Street		•	•	•	•	•
South Clinton Street	•		•	•	•	•
Stablestone Drive	•		•	•		•
University City Parking Lot		•	•	•	•	
University Park Drive	•		•	•	•	
Water Main Replacements		•	•	•		•



Oates provided construction observation and material testing, including full time observation, federal and MoDOT LPA documentation, soil, aggregate and concrete material testing for the Laclede Station Road Reconstruction project for the City of Maplewood, Missouri.



Oates is currently providing construction observation and testing for the Community Park, Phase I project for the City of Wildwood, Missouri. Phase I improvements encompass an exercise area, all-inclusive playground, picnic area, pavilion, a creek crossing structure, Parkway Drive, parking, bioswales, and trails.

**Qualifications of Personnel**

David Ogle is a project manager at Oates Associates with over 13 years of experience. He provides extensive construction inspection, testing and staking for Oates Associates, including the detailed level of construction engineering services necessary to ensure projects achieve the original design intent. His MoDOT training includes Aggregate Technician, Bituminous Technician, Plasticity Index, Soil Density, Superpave QC/QA, Tensile Strength Ratio (TSR), and Concrete Field.

Larry Costanzo has received training and has experience in construction testing and observation, and field survey. In addition to his extensive construction training, he has earned the following MoDOT certifications: Aggregate Technician, Soil Density, Plasticity Index, and Concrete Field. Since joining Oates Associates in 1994, Mr. Costanzo has provided construction engineering services for over 150 projects, including roadway, streetscape, intersection, sidewalk, trail, and bridge projects.

These individuals will be supported by Timothy Verheyen, PE and Stephen Noeth, who have received training and are experienced in construction testing and observation. Mr. Verheyen is a Missouri licensed Professional Engineer with over six years of experience in design and construction. He has provided construction engineering services for many roadway projects, and is currently providing construction observation and testing for the new Community Park project with the City of Wildwood, Missouri. Mr. Noeth has provided construction engineering services for many of our roadway and buildings projects and is currently providing these services for the federally funded Curb Ramp Upgrades project with the City of University City, Missouri. The project involves the upgrade of 74 curb ramps along four separate streets to meet ADA standards as well as reconstruction of damaged sidewalks.

### **Familiarity / Capability**

Funding for our municipal projects has ranged from general funds to federal transportation funds, so we are familiar with a variety of design and documentation requirements by outside funding agencies. We have a thorough understanding of MoDOT and FHWA guidelines from the funding application stage through the construction / implementation process.

Oates' project managers average about 20 years of experience with federal, state, and local agency roadway projects. Oates' knowledge of the federal process has benefitted our clients by accomplishing:

- Grant application assistance which has resulted in securing over \$30 million in federal funding
- Planning, design, construction and/or reconstruction of:
  - nearly 30 federally funded roadways within the last five years
  - 7 federally funded streetscapes
  - 7 federally funded bridges
  - 20 federally funded intersections, including 3 roundabouts

We have provided construction engineering services for many federally funded projects and we understand the project process. We are familiar with the guidelines established by the Local Public Agency Manual administered by MoDOT for construction documentation.

### **Accessibility**

We have staff available for assignment who can begin work immediately and they will be committed to the individual agency's project throughout the entire construction process. Oates Associates has proven our ability to be responsive on a variety of projects for several clients.

Oates Associates has been awarded several contracts with local municipalities, almost all of which are repeat clients. We believe these continual relationships with our clients speak to the level of their satisfaction. We understand that your willingness to engage us on your next effort is solely based on our ability to provide quality products and great service.

Thank you for the opportunity to submit our qualifications to be included on the LPA On-Call Consultant List. We are hopeful that our construction engineering experience and dedication to quality will be viewed favorably by the selection committee. Please contact us should you have any questions. We look forward to hearing from you.

Sincerely,

**OATES ASSOCIATES, INC.**



Bruce P. Schopp, PE  
President / Chief Operating Officer

# Engineering + Architecture



**OATES ASSOCIATES**  
Engineering + Architecture

## SERVICES

### Transportation Engineering

At Oates, our team of transportation engineers works with agencies, municipalities, neighborhoods and developers to creatively craft solutions and genuinely build consensus. We offer creative yet realistic solutions on a variety of scales from local street reconstructions to full development of interstate highway systems. Further, Oates is fluent in the design requirements of federally funded transportation projects, having completed over 30 federally funded roadway projects in the last five years.

- Local Streets
- Interstates and Interchanges
- Corridor / Alignment Studies
- Transportation Planning
- Intersection Design
- ADA Compliance Assessments & Design
- Storm Water Drainage Analysis & Design
- Hydraulic Studies
- Utility Coordination
- Public Coordination

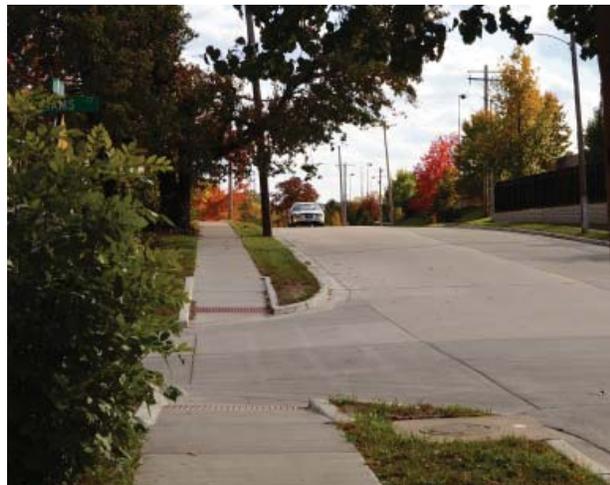
### Pedestrian Facilities

At Oates, we have the depth of pedestrian and bicycle facility experience to create an amenity that enhances the vehicular corridor. Our experience extends from ADA Transition Plans and bicycle master planning to facility design to construction. Many of our roadway projects involve upgrading pedestrian facilities to meet the current ADA requirements. Oates Associates understands that accessible design is a dynamic process that must be followed closely to comply with the most current design and construction guidelines and recommendations.

- ADA Transition Plans
- ADA Compliance Assessments & Design
- Streetscapes
- ADA Construction Inspection
- Pedestrian Signals
- Parking Lots



*IL 255 from IL 162 to I-270.*



*Federally funded roadway and sidewalk improvements along Laclede Station Road for the City of Maplewood, Missouri.*



*Inventory of sidewalks for the Sidewalk Inventory and ADA Transition Plan for the City of St. Charles, Missouri.*

## SERVICES

### Trails

Our staff has developed considerable experience in the design of bicycle / hiking trails in a variety of settings, from roadway facilities to state parks to college campuses to cross-county trails on abandoned rail lines or river levees. We have designed over 50 miles of bike trails and greenways, including on-street and off-street connections. Further, we have designed shared-use paths and sidewalks compliance with the “Complete Streets” state law.

- Bicycle Master Plans
- ADA Compliance Assessments and Design
- Multi-use Paths
- On-Road Facilities
- Recreational Trails

### Traffic Engineering

Oates has completed traffic impact studies for various municipalities and developers. To complete traffic studies, our engineers are proficient in using Highway Capacity software, Synchro, VISUM, and Nu-Metrics traffic counters. We also routinely perform manual traffic counts to supplement automated counts and help evaluate turning movement patterns.

- Trip Generation Studies,
- Traffic and Capacity Analysis,
- Intersection and Traffic Signal Design,
- Roundabouts
- Traffic Calming
- Control Warrants
- Intersection Modifications / Reconstructions

### Structural Engineering

Our structural design staff has significant experience in bridge / box culvert design and retaining walls as well as building structures. They have designed over 150 bridges in the last 20 years, from box culverts for small stream crossings to major interstate interchange structures and from rehabilitations and replacements to new structures.

Hydraulic design for new bridges and replacements is performed in-house by experienced hydraulic engineers.

- Steel Beam Bridges
- Prestressed Concrete Bridges
- Curved Girder Bridges
- Concrete Slab Bridges
- Pedestrian Bridges
- Box Culverts
- Deep Foundations
- Shallow Foundations
- Hydraulic Modeling



*Federally funded Cleveland Avenue Bridge in Belleville, Illinois.*



*Pedestrian walkway over US 67 and UP / NS Railroad in Alton, Illinois.*

## SERVICES

### Architecture

Our team of architects brings extensive knowledge of the built environment due to diverse design backgrounds. From new construction to renovations to repairs, we have designed facilities for municipalities, universities, schools, private clients, and retail and banking sectors. Our staff includes several LEED Accredited Professionals with practical green building experience and knowledge of sustainable site solutions.

- Conceptual Layout / Planning
- Building Design
- Interior Space Planning and Design
- Building Code Compliance
- Sustainable Design
- LEED Consulting

### Structural Engineering - Buildings

We provide structural engineering design for a variety of buildings and building types throughout the region, creatively adapting the structural components to the design. From new multi-million dollar facilities to building additions, we have crafted solutions that create great places.

- Building Inspections
- Building Structural Systems
- Foundations

### Site Design

Our architects, engineers and landscape architects work together to create site plans and designs that are as pleasantly interactive as they are efficient. Solutions that create great community places that become part of their surroundings rather than intrude on them. We have completed site design for many buildings, for sites up to 1,500 acres and for parking lot improvements affecting over 10,000 spaces in over 80 locations.

- Site Layout / Design
- Parking Facility Planning / Design
- Stormwater Management
- Wastewater Management
- Utility Design

### Survey Services

Our in-house survey staff assists our engineers by providing the initial topographic and right of way survey, and all required land acquisition documents for our projects. Oates Associates provides a wide range of surveying services to its clients which include:

- Control
- Route
- Topographic
- Right-of-Way
- Hydraulic
- ALTA
- Boundary
- Subdivision
- Construction Staking

### Construction Engineering Services

Our construction engineering services are tailored to fit our client's needs on each project. Our roles on construction projects have ranged from resident engineering and full construction observation to part-time inspection and testing to supplement our client's staff. Our construction engineering services include:

- Shop Drawing Reviews
- Coordination and Progress Meetings
- Construction Observation
- Material Testing
- Utility Coordination
- Federal documentation



*Porous pavement parking lot in University City, Missouri. Oates provide civil and construction engineering services.*