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November 15, 2013

MaryAnn Jacobs
 Missouri Department of Transportation
 Re: Missouri's Local Program | Traffic Engineering & TEAP

Dear Ms. Jacobs:

Oates Associates has extensive knowledge when it comes to federal, state, and local agency transportation/traffic projects. We bring a highly qualified staff and a substantial base of experience in the design and construction of transportation facilities. We successfully connect people and places, offering creative yet realistic solutions on a variety of scales, from safety analyses and traffic counts to intersection / signal design.

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.

We have recent, relevant experience with traffic engineering projects that include trip generation studies, traffic and capacity analysis, intersection and traffic signal design, roundabouts, traffic calming, control warrants and related construction services. These projects range from intersection modifications to complete reconstructions.

Oates has completed traffic impact studies for various municipalities and developers. This not only requires technical expertise in evaluating current and projected conditions, but also the ability to work with the various interest groups to gather data on event-driven peaks and enlist their cooperation in developing operational solutions to meet these challenges. 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.

Within the last 5 years, Oates has designed or is in the process of completing 19 intersection improvement projects, including 10 new traffic signal installations and 9 traffic signal modifications.

Past Performance

Oates Associates has been involved with every aspect of capital improvement projects utilizing federal funds. Within the last five years we have completed over 30 federally funded projects across the region, including six federally funded projects through MoDOT's LPA program. In addition to the projects highlighted on the Company Reference Form, below is a list of projects for which Oates has provided traffic engineering services.

	Funding Type			Design / Service Provided				
	Federal	State	Local	New System	Modify System	Intersection Design	Safety Analysis	Traffic Study
Adie Road			•		•	•		
Alton Feasibility Study		•						•
Beltline / Keebler	•				•	•		•
College Avenue			•	•				
East Schwarz Street / Buchanan	•				•	•		
Eastport / IL 157			•					•
Ehlmann Road	•					•		•
Frank Scott Parkway East Extension	•			•	•	•		•
Frank Scott Parkway West	•					•	•	
Frost Electric Traffic Study			•					•
Governors' Parkway (Troy to I-55)		•		•	•	•		

	Funding Type			Design / Service Provided				
	Federal	State	Local	New System	Modify System	Intersection Design	Safety Analysis	Traffic Study
Governors' Parkway / District Drive	•				•	•		•
Horseshoe Lake Road / Eastport Plaza	•			•		•	•	
Iberg Road Extension		•		•		•		
IL 143 / Northtown Shopping Plaza			•	•		•		
IL 143 / Troxler Avenue / Koepfli Lane	•				•	•		
IL 15 Traffic Study			•					•
IL 157 / Morrison	•			•	•	•		•
IL 159 / West Country Lane	•				•	•		
McKinley Bridge Approach / Beelman Road			•		•			
North Douglas Avenue / Lebanon Avenue	•					•		
Oak Street Safety Study			•				•	
Old IL 159 / Edwardsville Crossing		•		•				
Palmer Road / Old IL 3	•					•		
Poag Road / Northwest University Drive		•		•		•		•
Poplar Sreet	•					•		
Sam's Club Traffic Study			•					•
South 17th Street	•			•	•	•		
South Main Street / IL 3	•				•	•		•
South University / Stadium Drive	•					•	•	
Southern FS GasMart / IL 148			•					•
Southview Village Traffic Study			•					•
State Street / North Seven Hills Road	•					•	•	
US 40 / Hemlock Street		•		•		•	•	
West Main Street / 74th Street	•			•		•		



Oates completed a traffic impact study to address the traffic impacts of the new development at Poag Road / Northwest University Drive. Oates estimated traffic volume and movement distribution, reviewed traffic signal and turn-lane warrants, traffic operations, intersection sight distance, and proposed intersection geometry. Subsequently, Oates designed improvements, including widening Poag Road and Northwest University Drive and constructing a new approach at the Northwest University Drive intersection with a new traffic signal system.



The federally funded East Schwarz Street / Buchanan Street intersection project included the addition of a left turn lane and traffic signal modifications. East Schwarz Street was widened to add a dedicated left-turn lane. Existing traffic signals were modified to provide protected left-turn movements for westbound traffic. Detector loops were installed to accommodate the new left-turn lane. The existing traffic signal controller was modified to provide split-phase operation for eastbound and westbound movements. The sidewalks were reconstructed with new handicap accessible ramps.

Qualifications of Personnel

Al Goepfert, PE, PTOE is Principal Transportation Engineer for Oates Associates. He manages the firm's transportation planning and design for county and municipal clients. He is a Missouri licensed Professional Engineer and a Professional Traffic Operations Engineer. Mr. Goepfert has over 38 years of experience in the management and development of transportation projects including capacity analysis, geometric design and traffic control for various state, county and local agency highway and street improvement projects. He is familiar with the funding and policy requirements of federal, state and local agencies and is involved with right-of-way negotiations.

Mike Busch, PE, PTOE has been with Oates for over 15 years. He is a Missouri licensed Professional Engineer and a Professional Traffic Operations Engineer. His experience includes federal aid transportation, highways, local streets, drainage, DOT experience, pedestrian accommodations and utility coordination. His traffic related experience includes traffic signal design, intersection design studies, interchange design and traffic studies. He has managed or had significant involvement in over 100 local agency and DOT assignments. He is familiar with Federal, State, and Local permitting, the LPA process and plan review by the Missouri Department of Transportation (MoDOT).

Tom Cissell, PE, PTOE, LEED AP is a senior traffic engineer at Oates. He is a Missouri licensed Professional Engineer and a Professional Traffic Operations Engineer. Since joining the firm in 2000, he has been involved in design and plan preparation for our municipal clients. He has served as Project Traffic Engineer on several transportation related road projects requiring major intersection improvements and Intersection Design Studies (IDS). Using SYNCHRO software, Mr. Cissell has coordinated signal networks with up to five intersections.

Familiarity / Capability

Oates Associates' primary engineering focus is transportation. About 90% of these projects are federally funded. 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 imposed 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 transportation related engineering services for many federally funded projects and we understand the project process. When a project arises, guidelines set forth by MoDOT and FHWA will be followed closely and coordinated with the local agency. Through our experience in developing federally funded roadway improvement plans for many governmental agencies, we understand the importance of this coordination. The project will utilize the guidelines established by the Local Public Agency Manual administered by MoDOT, the AASHTO Policy on the Geometric Design of Highways and Streets, the Highway Capacity Manual, the ADA Public Right-of-Way Access Guidelines (PROWAG), the Manual of Uniform Traffic Control Devices, local ordinances and guidelines, and other relevant standards as it relates to the project.

Accessibility

We have staff available for assignment who can begin work immediately and they will be committed to the individual agency's project for the amount of time required to meet the project schedule. Oates Associates has proven our ability to be responsive on a variety of projects for several clients. Once a schedule is set for a project, we commit the necessary resources to complete the project within the specified timeframe. Every project is assigned a Quality Assurance / Quality Control (QA/QC) manager. The QA/QC manager meets with the project manager at intervals throughout the project to ensure successful delivery. This includes making certain that schedules are met and projects are within budget.

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 traffic 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

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

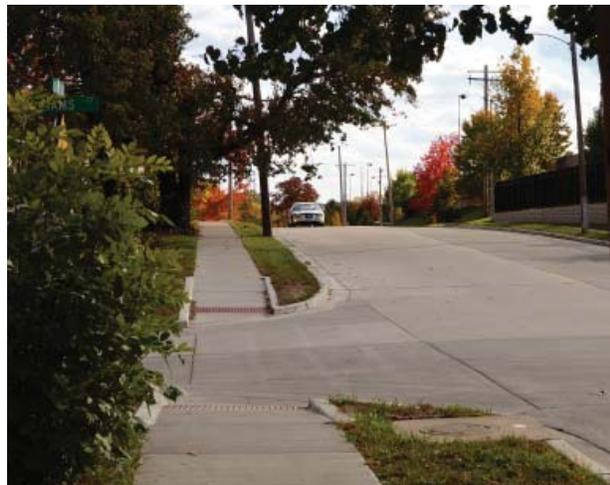
Pedestrian Facilities

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.