

LETTER OF INTEREST

Structures

November 14, 2014

Ms. Mary Ann Jacobs
Missouri Department of Transportation (MoDOT)
105 West Capitol Avenue, Jefferson City, MO 65102
via email to: maryann.jacobs@modot.mo.gov

Dear Ms. Jacobs:

To provide a superior transportation experience that serves your customers and promotes a prosperous Missouri, STV Incorporated (STV) wants to partner with Missouri's Local Program (LPA) to solve your transportation challenges. Our outstanding performance record in controlling costs, proactive management, quality, and client satisfaction has enabled our local team, with offices in Missouri, Kansas and Illinois, to expand our list of transportation clients in the region within the last five years. ***STV's experience and knowledge delivering proven structural design services allows our local Midwest team to apply best practices and lessons learned to any LPA project.*** STV welcomes the opportunity to lend our trusted leadership and repeated success managing federal projects to Missouri municipalities, counties, and cities, and to become your consultant of choice.

Prequalification

STV is on MoDOT's Approved Consultant Prequalification List:

- MoDOT E-Verify Expiration Date 01/17/2015
- Financial Pre-Qual Expiration Date 03/31/2015
- Bridge Forms and QC/QA Plan Expiration Date 10/04/2016

General Experience of Firm

STV celebrated its 100th anniversary in 2012. From its beginnings as a structural engineering firm, today STV is a full-service engineering and architectural firm delivering world-class transportation and infrastructure projects.

Today, STV consistently ranks among the top firms serving the transportation market. Ranked 12th on *Engineering News-Record's* list of the Top 50 firms in Transportation, STV is 12th among the Top 25 in highways and 15th in bridges, with a ***portfolio of new and rehabilitated bridges for more than 20 state Departments of Transportation (DOTs) nationwide.***

For more than 25 years, STV's robust practice has served a variety of bridge replacement and rehabilitation projects for counties, municipalities, and DOT agencies throughout the Midwest. STV recently completed structural engineering for construction of the East Riverfront Interlocking (Eads Bridge) for St. Louis Metro. For Kane County Division of Transportation (KDOT), STV prepared civil engineering plans for the removal and replacement of Orchard Road bridge over I-88 in



STV PROVIDES MISSOURI LPAS WITH THE BENEFITS OF:

- **Outstanding Past Performance:** Recognized as national leaders in bridge design, STV will work with LPA to provide comprehensive solutions to the transportation challenges of your local Missouri counties and municipalities
- **Trusted Leadership:** Our Project Manager, MoDOT veteran Mark Grossenbacher, leads our same key personnel for LPA as other DOT projects that resulted in high client satisfaction and positive performance reviews
- **Familiarity with Federal Projects:** Our experience managing similar task order projects that comply with federal law will factor as a critical element in the execution of any LPA project

Aurora, IL. STV has been providing bridge design services to the Illinois Department of Transportation (IDOT) for two decades, including our current work performing Statewide Structural Engineering Services for projects across Illinois. This includes structural design engineering for the widening and reconstruction of IL 21 from Willow to Sanders Road in Northbrook, IL and managing the replacement of dual structures carrying IL 15 over IL 13 and the Illinois Central Gulf Railroad in Freeburg, IL.

Past Performance

As leaders in bridge design, ***STV has proven past performance working with cities, counties, MPOs, and state DOTs to resolve their transportation challenges, resulting in positive action in terms of cost control, quality of work, and meeting performance schedules.*** The projects pictured on the following page are a representative sampling of STV's broad range of bridge assignments in the Midwest.

STV TEAM MEMBER, MARK GROSSENBACHER

- Facilitated the condition inspection, maintenance, and repair of ~650 state-owned bridges within the 12-county area of the MoDOT Northwest District
- Directed the MoDOT Highway Bridge Replacement and Rehabilitation Program for ~1,000 city- and county-owned bridges



ST. LOUIS METRO, EAST RIVERFRONT INTERLOCKING, ST. LOUIS, MO

- The historic Eads Bridge carries MetroLink trains on its lower deck and cars from a 4-lane highway on its upper deck across the Mississippi River
- To create usable space for a new crossover, STV designed structural modifications to both the roadway and track levels of the East Arcade, including removal of the center stone columns, stone arch, and concrete caps that support the existing floorbeams carrying the roadway deck
- An existing conditions evaluation determined that precast prestressed concrete (PPC) floorbeams on the roadway structure needed to be replaced with single-span PPC floorbeams
- Using STAAD-Pro, STV confirmed that both the existing stone columns and arches could support the reframed roadway



KEY PROJECT ELEMENTS

- * Plans production
- * Cost comparisons
- * Detailing and structural design

CHICAGO DEPARTMENT OF TRANSPORTATION, MONTROSE HARBOR BRIDGES AND UNDERPASSES, CHICAGO, IL

- \$10 million rehabilitation of three underpasses and a viaduct bridge that preserves the 1930s structures' historical appearance
- Conditions range from fair to poor and design and size vary, from a 67' x 15' concrete-filled spandrel arch to a 24' x 70' single-span rigid frame
- STV performed thorough inspections of each structure and developed various concepts for rehabilitation and replacement, taking note of surrounding elements that may affect the design, including street lighting, embankments, and utilities
- Existing stonework was removed and restored and cast-in-place concrete superstructures supported by existing foundations were installed



KEY PROJECT ELEMENTS

- * Plans production
- * Cost comparisons
- * Hydraulics
- * Detailing and structural design

CHICAGO DEPARTMENT OF TRANSPORTATION, VAN BUREN STREET BRIDGE REHABILITATION, CHICAGO, IL

- Phase I through Phase II Engineering services for the inspection and rehabilitation of Chicago-style, double-leaf, trunion type bascule bridge
- The bridge is operable but rated to be in serious condition. Built in 1956, it has an overall length of 267', a roadway width of 44', and a deck width of 69'
- STV is preparing a Bridge Condition Report from full site inspections including: structural, mechanical, and electrical systems; architectural elements, environmental, detailed survey, and underwater inspection; and existing deck, sidewalks, gratings, railings, steel superstructure, substructure, and adjacent river walls



KEY PROJECT ELEMENTS

- * Plans production
- * Cost comparisons
- * Detailing and structural design

ILLINOIS DEPARTMENT OF TRANSPORTATION, IL-15 OVER ICGRR AND IL-13 RECONSTRUCTION, BELLEVILLE, IL

- STV provided preliminary and final design services for the \$14.4 million replacement of dual structures carrying traffic on IL-15 over IL-13 and the Illinois Central Gulf Railroad (ICGRR) in the St. Louis metro area
- On-site inspection resulted in recommendation to replace the two IL-15 bridges with four new ones: two to carry over IL-13 and two over the ICGRR
- By filling the area between the bridges with an embankment, STV eliminated seven bridge spans, which reduced structural costs
- Final approved design complies with AASHTO seismic requirements and avoids maintenance concerns by eliminating deck joints and reducing the amount of bridge area to maintain



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Qualifications of Personnel

Mark Grossenbacher, PE, will lead STV's team as **Project Manager**. Located in our St. Louis office, Mr. Grossenbacher has more than 30 years of experience providing civil engineering and project management for the design and construction of bridge, roadway, and interchange projects in Missouri and Illinois. He has coordinated LPA roadway and bridge projects for municipalities within Missouri as well as large highway corridor and bridge projects for the Missouri Department of Transportation (MoDOT). His expertise encompasses civil site design, traffic engineering, environmental analysis, bridge and roadway design in both urban and rural environments. Prior to his career at STV, Mr. Grossenbacher spent 10 years with MoDOT serving as District Director of Planning, District Bridge Engineer, and as an Area Engineer within the St. Louis Metro District. Mr. Grossenbacher is prequalified as a Project Manager having completed the LPA *Person in Responsible Charge* training.



Principal-in-Charge Jean-Alix Peralte, PE, PTOE, is skilled



at establishing the technical direction of projects, and coordinates project teams to make sure all aspects of the scope of work are addressed while meeting schedule and budgetary requirements. He has 25 years of experience in the management, planning, and implementation of transportation projects and his expertise encompasses bridge improvement and rehabilitation projects for the IDOT, CDOT, and various counties and cities throughout the Midwest.

Structural Engineer Mr. Winkelmann, PE, SE, is a licensed



Professional Engineer in Missouri and has over 30 years of engineering experience involving the design, construction, and rehabilitation of bridges for counties, cities, and state DOTs throughout the Midwest. Mr. Winkelmann has been responsible for the planning and implementation of work schedules, labor estimates, and up-front scope development of major transportation design projects. He has directed and reviewed the preparation of engineering documents for preliminary and final design. His recent work includes the replacement of the existing Torrence Avenue Bridge over the Grand Calumet River for IDOT and the replacement of the 75th Street Bridge over the DuPage River for the DuPage County Division of Transportation.

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Familiarity/Capability

STV's team members have spent their entire careers working on projects related to traffic engineering, roadway, and bridge design throughout Missouri and Illinois. Having worked

directly for MoDOT and several municipalities, our proposed project manager has strong relationships with MoDOT and local program administrative personnel. We are familiar with the LPA process and have an understanding of the pertinent issues, procedures, local design standards, as well as applicable state and federal requirements.

We understand successful project execution is of utmost importance to the LPA. Our experience managing similar engineering task order projects that comply with federal law will factor as a critical element in executing any LPA project. Once STV is selected for a task order, we schedule a kick-off meeting to discuss scope, schedule, staffing, and budget. We conduct a field visit to develop a detailed scope, fee estimate, and schedule to meet the LPA's project requirements. We offer innovative concepts and approaches, where appropriate, to meet the needs of the project at the least cost to the LPA.

Our team develops and delivers construction documents and specifications in accordance with MoDOT's LPA process and federal requirements. Leveraging our familiarity with MoDOT's review staff, we can help facilitate and expedite the review process. STV staff is also committed to be available to answer design questions during the construction process.

Accessibility

STV's primary office for this contract is located in the St. Louis metro area, and will be supported by STV's Mission, KS and Chicago, IL offices, providing Local Public Agencies with access to a local team of professionals backed by industry leaders in roadway, structure, and traffic engineering. STV's office locations are within driving distance of project locations throughout the state of Missouri and will allow us to promptly respond to project needs, site visits, or meetings. STV's responsiveness has been recognized by our clients in letters of commendation, as indicated below, and by the fact that **over 80% of our business is from repeat clients—a testimony to the quality of service we provide our clients.**

WHAT ARE CLIENTS SAYING ABOUT STV?

“Your firm's professionalism and responsiveness sets STV apart from other firms.”

PAUL HOLCOMB
Kane County Division of Transportation

“The consultant [STV] was very responsive, attentive to requests, and proactive in initiating conversations regarding project details and schedule. Communication was clear and constant.”

KIMBERLY MURPHY
Illinois Department of Transportation

“[STV] is on the ball. STV calls us with any issues before we have the need to call them.”

ALAN HASLER
DuPage County Division of Transportation



ROADWAYS + BRIDGES + TRAFFIC



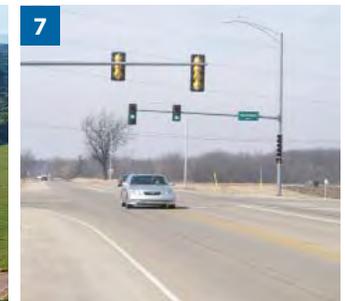
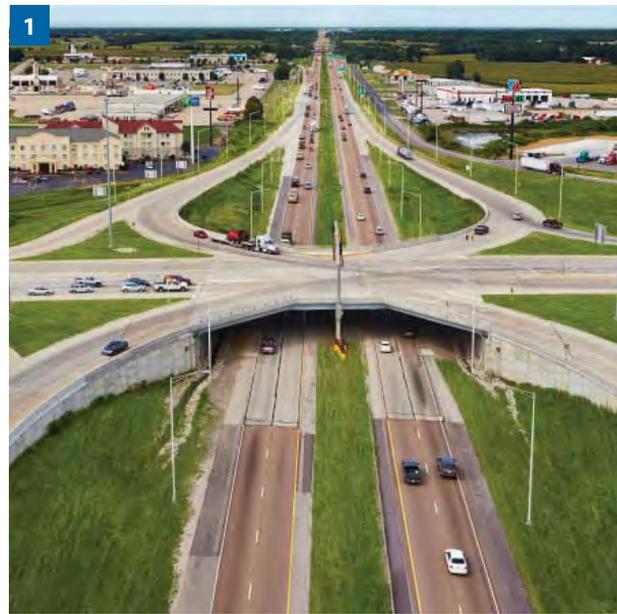
FIRM QUALIFICATIONS AND SELECTED PROJECTS

ROADWAYS

As one of the country's top 25 firms in roadway design, STV serves traffic needs nationwide, from rural to urban centers. Our approach considers traffic, geometrics, and aesthetics, as well as community, environmental and historic preservation needs. Our firm's team of experts provides all aspects of roadway design, including:

- ◆ Needs Assessments and Feasibility Studies
- ◆ Route Alignment
- ◆ Environmental Studies
- ◆ Traffic Analyses and Forecasting
- ◆ Roadway Geometrics
- ◆ Drainage and Utilities
- ◆ Hydraulics
- ◆ 3D Modeling
- ◆ Signals and Lighting
- ◆ Traffic Maintenance
- ◆ Traffic and Pedestrian Modeling
- ◆ Rail Coordination
- ◆ Constructability Reviews
- ◆ Life-Cycle Cost Analyses
- ◆ Construction Management

1. IL 162 over I-55/70, Troy, IL
2. I-355 North-South Tollway South Extension, Will County, IL
3. Fabyan Parkway and Settler's Hill Intersection Improvements, Geneva IL
4. Truman College Access Roadway, Chicago, IL
5. IL 2 from North of Elmwood Road to Rockton Bypass, Winnebago County, IL
6. IL 8 Reconstruction, East Peoria, IL
7. US 150 Widening, Urbandale Avenue to Detroit Avenue, Tazewell County, IL
8. Rehabilitation of Orchard Road Over I-88, Aurora, IL
9. Plum Grove Hills Drainage Study, Palatine, IL



“ [STV] has done a good job on the [US 150 Widening] project. Project Manager [Jean-Alix Peralte] has worked hard to keep project costs down while trying to develop a drainage plan with very little existing drainage information, and always presented innovative and fresh approaches to the project. ”

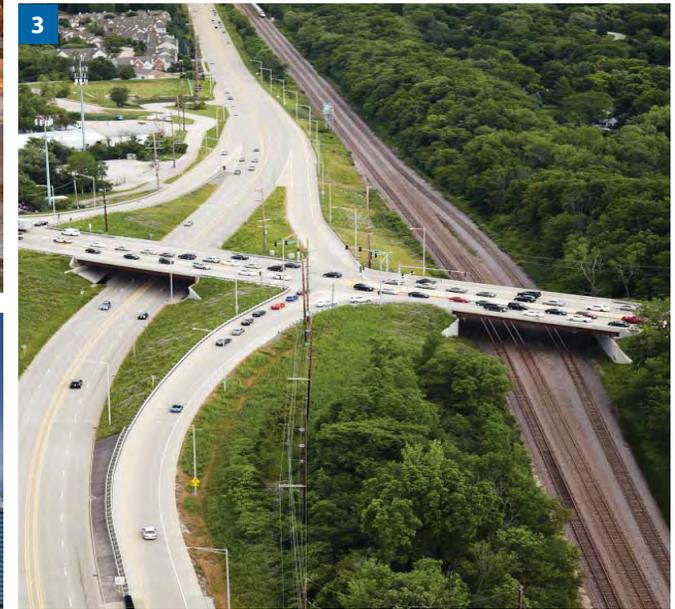
MICHAEL MCLUCKIE
Project Engineer, Illinois Department of Transportation

BRIDGES

As one of the country's top 25 firms in the bridge industry, STV offers planning, design, construction management and inspection services for bridges, including highway, rail, fixed, movable, long-span and viaduct structures. Our bridge specialists perform repair, widening, and replacement projects nationwide, and provide the following services:

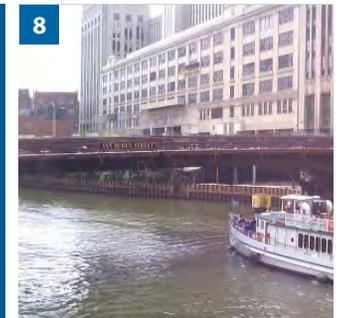
- ◆ Bridge Inspections and Inventories
- ◆ Load Rating and Modeling
- ◆ Fatigue Analysis
- ◆ Seismic Analysis and Retrofitting
- ◆ Hydraulics
- ◆ Corrosion Control
- ◆ Soils and Foundation Analysis
- ◆ Scour Analysis and Scour Mitigation
- ◆ Emergency Response
- ◆ Constructability Assessments
- ◆ Resident Engineering and Inspection Services
- ◆ Construction Management
- ◆ Cost Comparisons

1. Eads Bridge East Riverfront Interlocking, St. Louis, MO
2. IL 21 Reconstruction, Northbrook, IL
3. IL 68 over US 14 & UP Interchange, Chicago, IL
4. IDOT IL 2 Reconstruction over the Mud Creek flood plain, Owen, IL
5. Art Institute of Chicago Nichols Pedestrian Bridge, Chicago, IL
6. IL 162 over I-55/70, Troy, IL
7. Centennial Bridge Rehabilitation, Rock Island and Davenport, IL and IA
8. Van Buren Street Bridge Rehabilitation, Chicago, IL



“ With the recent completion of the East Riverfront Interlocking, I would like to commend [STV] for the diligence and professionalism they displayed during this challenging project. Metro has enjoyed working with STV on a number of successful projects and I hope to see you submit on additional projects in the future. ”

CHRISTOPHER POEHLER, PE
Senior Vice President, St. Louis Metro

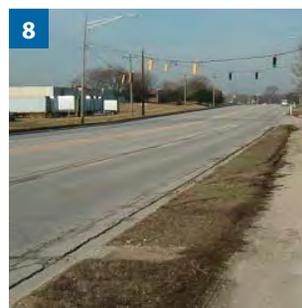
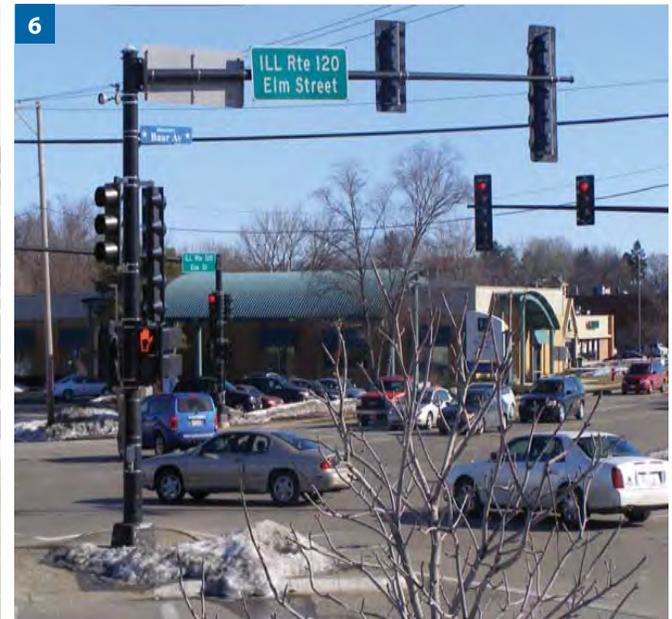


TRAFFIC

As one of the country's top 25 firms in transportation, STV offers traffic engineering and design solutions to alleviate congestion and improve safety. From densely urban intersections to rural roads, our traffic specialists have played key roles in evaluating all aspects of intersection efficiency, including:

- ◆ Traffic Impact Study
- ◆ Parking Study
- ◆ Safety Study
- ◆ Speed Limit Study
- ◆ Intersection Design Study
- ◆ Traffic Modeling and Simulation
- ◆ Traffic Signal Optimization and Synchronization
- ◆ Traffic Signal Design and Modernization
- ◆ Lighting Design
- ◆ Corridor Operations and Capacity Analysis
- ◆ Signage and Pavement Markings
- ◆ Intersection and Highway Design
- ◆ Pedestrian and Bike Route Analysis
- ◆ Streetscape Design

1. Gary Avenue at Travis Parkway Improvements, Roselle, IL
2. Reconstruction of West Grand Avenue, Chicago, IL
3. North County Transit Center, Ferguson, MO
4. Cedar Road and Laraway Road Intersection Improvements, New Lenox, IL
5. Roadway Pavement Improvements Program, DuPage County, IL
6. IL 31 Reconstruction from IL-176 to IL-120 Phase I Study, McHenry County, IL
7. Olive-Harvey Community College TDL Center Traffic Impact and Parking Needs Study, Chicago, IL
8. Fabyan Parkway and Settler's Hill Intersection Improvements, Geneva, IL



“ STV has shown dedication to deliver a fully coordinated project that meets Metro's present and future needs keeping in mind the needs of Metro's customers. STV understood Metro's project requirements and worked to provide innovative and cost effective solutions to the challenges as they occurred. I would highly recommend the services of STV for future projects. ”

JEREMY DOTSON
Project Manager, St. Louis Metro