



**Missouri's  
Local  
Program**  
*for community  
development*

## COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

Firm's Full Legal  
Name:

Modjeski and Masters, Inc.

Firm Contact Name:

David W. Petermeier, PE, SE

Contact Email  
Address:

DWPetermeier@modjeski.com

Firm's Mailing Address:

333 South 18th Street, Suite 100

St. Louis, MO 63103

Work Category:

- ☐ Roadway Design
- ☐ Trails & Sidewalks
- ☐ Construction Inspection
- ☐ Traffic Engineering & TEAP
- ☒ Structures
- ☐ Environmental
- ☐ Historic Preservation

## STATEMENT OF INTEREST

**Modjeski and Masters, Inc. (MM)**, is interested in providing engineering services for On-Call Professional Services for Missouri's Local Program for Community Development in the Work Category of **Structures**. MM possesses the expertise and capacity required for successful delivery of these services. MM is familiar with both Missouri Department of Transportation (MoDOT) policies and practices and with LPA federal funding requirements. Our firm is experienced in bridge design and analysis, replacement and rehabilitation plan development, hydraulic studies, cost comparisons, and structural detailing.

### Modjeski and Masters Offers:

- ✓ PMs and technical staff with LPA work experience
- ✓ Examples of not only meeting schedules, but expediting them to meet federal funding windows
- ✓ Record of client satisfaction
- ✓ Long history of LPA Program involvement
- ✓ Successive on-call contracts performed for local agencies

## PREQUALIFICATION

MM is prequalified with MoDOT and is currently listed on MoDOT's Approved Consultant Prequalification List. Our Financial Prequalification, E-Verify, LPA Training, Bridge Forms, and Bridge QA/QC Plan are all currently submitted and up to date.

## GENERAL EXPERIENCE OF FIRM

MM is one of the nation's leading bridge engineering firms, established nearly 130 years ago. MM's MidAmerica office has been consistently delivering quality design services on time and on or under budget since 1995. Our excellence and quality of work has helped us develop a partnership of trust with local agencies which has resulted in our firm securing successive contracts, including on-call type contracts, for assignments of various size, level of complexity, and urgency. MM has recurring on-call type contracts with Metro and IDOT. Our firm has successfully completed similar structural design services for both MoDOT and local municipalities and has a long history of LPA Program involvement. A detailed sample of our recent LPA work is given in the *Past Performance* section of this letter. In addition, the following table includes a list of past, current, and upcoming LPA projects:

LPA Project	Agency	Services
Township Road 165 Bridge over BNSF	Schuyler County	Climbing inspection services for fracture critical inspection of steel span over the BNSF railroad
Creve Coeur Mill Road Bridge Rehabilitation	St. Louis County	Finite element analysis of the existing structure to determine the cause of structural cracking and develop rehabilitation plans
Mississippi Avenue over BNSF	City of Crystal City	Three-span continuous steel multi-girder replacement structure over the BNSF railroad
Wild Horse Creek Road Bridge	City of Wildwood	Single span precast prestressed concrete I-girder replacement bridge with an increased hydraulic opening and pedestrian walkway
Kingsland Avenue Cover over River Des Peres	University City	Rehabilitation plans for 300 prestressed concrete double tee beams supporting roadway and a local park
Shepley Drive over BNSF	City of Bellefontaine Neighbors	Rehabilitation plans to extend the life of a structure carrying two lanes of traffic and a pedestrian walkway over the railroad
Old Chain of Rocks Bridge	Trailnet (GRG)	Conversion of an old highway bridge for pedestrian and bicycle use
White Cliff Park Ln over Gravois Creek	City of Crestwood	Bridge rehabilitation plans for deck overlay and approach slabs
University Park Second Addition	University City	Design assistance for street reconstruction
Valley Road over Shotwell Creek	City of Wildwood	Three-span curved concrete I-girder replacement bridge with a pedestrian walkway
Grand Avenue	City of St. Louis	Study of rehabilitation and replacement options and a cost analysis

## PAST PERFORMANCE

Although owner references are not requested for this year's submission, we would like to point out that MM previously received marks of **Excellent** for *Timeliness*, *Work Quality*, and *Overall Rating* from past clients. Below is a detailed sample of successfully delivered projects, including projects receiving federal funds. We are confident that our clients have been satisfied with the work we have performed and encourage you to contact the provided references for further testimony of our quality of work.



**City of Columbia/COLT**

C. Johanningmeier, 573.874.2489  
christian.johanningmeier@como.gov  
Federal Funding

**US Highway 63 Overpass, Columbia, MO** | This project involved the relocation of a rail line to a previous alignment which overpasses US Highway 63 in Columbia. MM designed the overpass structure with two 85-foot through plate girder main spans and four deck girder approach spans. MM also provided construction support and inspection services. MM met the design schedule, which was **compressed by six months**, to produce plans in time for the project to be eligible for **unexpected federal funds** that were made available through the American Recovery and Reinvestment Act. MM adjusted staffing and worked closely with the client to deliver the plans on time. This LPA project included MoDOT coordination.

**Key Personnel:** Mr. Petermeier – Project Manager, QC/QA Mr. Kober – Project Engineer



**Bi-State Development (Metro)**

Tim Nittler, 314.982.1400  
tfnittler@metrostlouis.org  
Federal Funding

**Union Station Tunnel Rehabilitation, St. Louis, MO** | The tunnel consists of three segments: the first is composed of steel members, the second is a concrete ceiling slab supported on concrete columns, and the third is a two-cell reinforced concrete box culvert. MM is providing design services to reconstruct two of the three segments, including supporting infrastructure. Replacement of the electrification system, construction of a new communications complex, and a new continuous fiber connection are completed and operational. The design of the new tunnel structure, a dry standpipe system, emergency egress lighting, and ADA access ramp and stairway are all either in progress or awaiting funding. MM is collaborating with the Owner to deliver the project in a way that is **tailored to their needs and available funding**.

**Key Personnel:** Ms. Hassard – Project Manager Mr. Petermeier – QC/QA



**Great Rivers Greenway**

Mark Vogl, 314.436.7009  
mvogl@grgstl.org  
Local Funding

**Great Rivers Greenway Trestle Evaluation, St. Louis, MO** | The Trestle is an abandoned railroad structure acquired for proposed future repurposing as an outdoor attraction and bicycle and pedestrian byway. This project involved the inspection and structural evaluation of The Trestle from 2nd Street to Broadway, over 9th Street and Monroe Street, and along 10th Street. This segment consists of 43 bents with simply supported two-girder spans, 33 of which were inspected. MM provided condition inspection, performed a condensed structural evaluation, and developed repair recommendations. This work was performed as a subconsultant to Access Engineering. MM also previously performed inspection and repair plans for the adjoining trestle in 2012.

**Key Personnel:** Mr. Kober – Project Manager Mr. Petermeier – QC/QA



**St. Clair County, Illinois**

James Harms, 618.233.1392  
James.Harms@co.st-clair.il.us  
Local Funding

**CSX Bridge over Scott Troy Road Impact, O'Fallon, Illinois** | In 2019, the bottom flange of a through girder for an abandoned railroad bridge over Scott Troy Road was struck by a commercial vehicle. The impact caused severe gouging and rotation of the girder bottom flange and tore the web of the girder away from the bottom flange in eight locations, with tears up to two feet in length. MM deployed an inspection team to perform a full inspection of the structure to investigate and quantify the damage; prepared an inspection report which provided recommendations for the repair of the damaged flange and web; and prepared plans and specifications to return the structure to its original capacity.

**Key Personnel:** Mr. Kober – Project Manager Mr. Petermeier – QC/QA



**Missouri DOT**

Benji Philpot, 573.472.5371  
jessie.philpot@modot.mo.gov  
Federal Funding

**Route D over Byrd Creek, Jackson, Missouri** | MM provided preliminary design services, including **hydraulic and scour analysis**, preliminary roadway plans, bridge memorandum, and preliminary cost and workday estimates for the replacement of the existing five-span structure. The new structure is a three-span precast prestressed concrete NU girder superstructure supported on concrete bent caps that sit atop intermediate column bents on drilled shafts and integral end bents on h-piles. MM is currently providing final roadway and bridge design, and limited construction support services. This project is **part of a Bundled Bridges contract** for the Southeast District. The advertised DBE goal was exceeded.

**Key Personnel:** Ms. Hassard – Project Manager Mr. Petermeier – QC/QA

## QUALIFICATIONS OF PERSONNEL

Due to the unpredictable nature of on-call contracts, MM will utilize multiple Project Managers with a local support pool of versatile and skilled engineers. This will permit us to quickly designate a design team for each assignment, regardless of timing.



**David Petermeier, PE, SE**

**QC/QA Review**

Dave is currently the Senior Vice President/Regional Director in charge of MM's MidAmerica offices, with over 30 years of bridge design experience. He is a professionally licensed engineer in Missouri (#2002016444). Dave has provided QC/QA review of all milestone documents and overall project supervision for the design, analysis, and rehabilitation of bridges of various sizes and complexities for many state, municipal, and private entities. He served as the QC/QA Reviewer or Project Manager for all the MM projects listed in our *Past Performance*.



**Aaron Kober, PE, SE**

**Project Manager**

Aaron serves as a Project Manager at MM, is a professionally licensed engineer in Missouri (#2008028539) and is currently **LPA Project Certified** through MoDOT. He has over 20 years of experience providing engineering services for local, state, and private entities. He has administered on-call contracts, including General On-Call Services performed for Metro. Aaron has assisted the TRRA, COLT Railroad, and Metro with the successful execution of projects receiving federal aid. He has been the Project Manager for many of MM's recent LPA projects in Missouri and Illinois.



**Jerilyn Hassard, PE, SE**

**Project Manager**

Jerilyn serves as a Vice President and Assistant Regional Director for MM's MidAmerica offices. She is a licensed professional engineer in Missouri (#2002003174) and is currently **LPA Project Certified** through MoDOT. She has over 20 years of experience providing project management for bridge design projects, including those that encompass several bridges under a single contract such as IDOT Various-Variations on-call type contracts. She was also the Project Manager for the Creve Coeur Mill Road Bridge Rehabilitation and is the Project Manager for the Bundled Bridges Design contract currently being performed for MoDOT's Southeast District.



**Rachel Mertz, PE, SE**

**Project Manager**

Rachel is a Senior Project Manager at MM and a licensed professional engineer in Missouri (#2013042648) with over 20 years of experience providing project management and design for bridge projects. She has experience working in both Missouri and Illinois for transportation design projects of all sizes and complexity levels. Rachel is the Project Engineer for Route D over Byrd Creek and is providing QC/QA review of the hydraulic design. She was also the Project Manager for MM's recent replacement of Missouri Route A over Indian Creek and has participated in LPA bridge design projects performed for local agencies.

## FAMILIARITY/CAPABILITY

MM personnel have previously provided services to both MoDOT and LPAs and are familiar with their policies, design standards, and guidelines. MM personnel have also assisted our clients with multiple Federal-Aid projects and are well-versed in the administration of projects receiving federal funding. They have completed the LPA federal aid training and understand the reporting and testing requirements of LPA projects. MM understands that the good stewardship of Federal funding is a necessary key to the success of the MoDOT program. MM has also been hired by two of our rail clients to help manage the reporting and testing requirements of LPA projects during the construction phase, and has worked with local officials to execute projects in accordance with federal laws and regulations, and in accordance with the oversight agreement between MoDOT and the FHWA. Please refer to projects referenced earlier under *Past Performance* for specific examples of the successful delivery of Federal-Aid projects.

## ACCESSIBILITY

The best indicator of accessibility and responsiveness to clients' needs is client satisfaction. The **exemplary remarks** below from past clients are indicative of our record of responsiveness:

- Ms. Michele Atkinson, Structural Liaison Engineer, MoDOT, stated, *"The final design phase went very smoothly and the consultant met the deadlines. The consultant turned in a good set of final plans. [MM] was easy to work with and very responsive throughout the project!"*
- Mr. Christian Johanningmeier, COLT, stated *"...without Modjeski and Masters' willingness and ability to rapidly accelerate their design efforts, the [US Highway 63] bridge would have not been funded or constructed."*