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CELEBRATING 40 YEARS
ENGINEERING SOLUTIONS
1973-2013

November 14, 2014

Mr. Kenny Voss, P.E.
Local Program Administrator
MoDOT Central Office
Via email to: MaryAnn.Jacobs@modot.mo.gov

Re: LPA On-Call Professional Services – Roadway Design

To whom it may concern:

EDM Incorporated wishes to be considered for the referenced services.

EDM has provided continuous professional engineering services to our clients in the St. Louis area and throughout the world, for more than 40 years. St. Louis is our headquarters and base of operation. Our current staff of 23 employees includes 9 registered professional engineers, 4 registered structural engineers, 1 registered architect and 4 LEED accredited professionals.

We have provided roadway design services to more than a dozen St. Louis area municipalities, plus, the Missouri and Illinois Departments of Transportation. Most recently, we have provided these services to LPAs as part of surface transportation projects (STP).

Our transportation staff has been trained to provide these services in accordance with MoDOT requirements. This training includes ADA training and the LPA Basic Training Program. In addition to this training, our staff has recent on-the-job experience applying the skills necessary to perform roadway design services for LPAs. The services we typically perform are as follows:

- Upon selection by the LPA, we provide an Engineering Services Contract (ESC) following Fig. 136.4.1 of the LPA Manual.
- Man-hours are presented by level of effort required, phase of the project and personnel category
- Fees are determined by the product of man-hours, salary rates and audited overhead rates
- As a normal function of our business, our books are audited by an independent accounting firm annually. This ensures our clients the most up-to-date and fair overhead rates, when calculating our fees for LPA projects
- Utilities are notified and marked in the field
- Topographic and right-of-way surveys are commissioned immediately following execution of the ESC.
- Geotechnical investigations are also commissioned after execution of the ESC.

Structural

Civil

Building Systems

Project Management

Member

American Council of

Engineering Companies



- EDM obtains environmental clearance for the project, ensuring compliance with the National Environmental Policy Act (NEPA). For LPA projects, this is usually a categorical exclusion. This is obtained by completing the FHWA CE2 form.
- Preliminary Plans follow the surveys, but cannot proceed beyond 35% without environmental clearances. Preliminary plans investigate alternative pavement types, drainage methods (open or enclosed), and a determination of water quality requirements, if any.
- Utility Company Coordination follows, to identify conflicts, required relocations and cost impacts.
- A Public Meeting (usually an open-house format) follows preparation of the Preliminary Plans to receive public input.
- Preliminary Plans are revised to reflect public comments.
- Preliminary Plans are approved
- Right-of-Way (RW) plans are prepared to identify needed easements and/or additional right-of-way requirements.
- Approval of RW plans must be received prior to receipt of authorization to acquire RW, aka the A-Date.
- RW acquisition can be by the LPA or EDM.
- After approval of the RW plans, the Final Construction Plans, Specification and Cost Estimate (PS&E) begins.
- Final Plans generally include: Plan & Profile; Right of Way lines; Utilities; Temporary Traffic Control (per MUTCD); Survey Control and Erosion Control. Plans must be signed and sealed by the design engineer and signed by the LPA.
- RW Clearance (and Utility Clearance) must be secured before project can be advertised for bidding.
- Following the bidding, the project goes to construction. EDM also provides construction inspection services to local agencies.

The personnel who would perform the Roadway Design services consist of Steven M. Skasick, P.E., Len Madalon, P.E. and Anthony J. Tarro.

Steve is a graduate of The University of Missouri at Rolla with a Bachelor of Science in Civil Engineering. He is a registered professional engineer in three states, including Missouri. He has over 30 years' experience in the design and construction of civil engineering projects, including roads, bridges, water and sewage treatment facilities, storm and sanitary sewers, storm water detention facilities, pump stations, rail spurs,



harbors, trails, sidewalks, campgrounds and site development. He has been with EDM since 1984.

Recently, Steve was involved with the design of two STP-funded projects for the City of Hazelwood, Missouri – Missouri Bottom Road and Fee Fee Road. In that capacity he performed design oversight, management of sub-consultants and contracts, billing and QA/QC. Steve has completed the MoDOT LPA Basic Training course.

Len Madalon is a graduate of Purdue University with a Bachelors and Masters of Science in Civil Engineering. He is a registered professional engineer in three states, including Missouri. He has nearly 20 years' experience in the design and construction of civil engineering projects. His area of expertise is stormwater solutions. This has included stormwater master plans, bridge hydraulics, the design of piped and channel stormwater solutions, and the construction inspection of those designs. Len would prepare drainage plans and designs for any roadway designs.

Tony Tarro is a graduate of Lincoln Land College with an AAS degree in Design/Drafting. He has more than 20 years' experience in the design and construction inspection of transportation projects.

He has provided design and drafting of numerous intersection and traffic signal improvements for other St. Louis area consulting firms over the past 20 years.

EDM has the experience, the personnel and the desire to serve local public agencies with their roadway design projects. We have excellent relationships with various sub-consultants, who help us provide the design services you expect. These sub-consultants include geotechnical firms and surveyors.

We look forward to the opportunity to work with your agency.

Sincerely,

A handwritten signature in black ink that reads "Steven M. Skasick". The signature is fluid and cursive, with the first name being the most prominent.

Steven M. Skasick, P.E.
Executive Vice President

SMS/vp

Missouri Bottom Road Reconstruction STP-9900 (692)

Hazelwood, Missouri



EDM was hired by the City of Hazelwood to provide engineering services for the reconstruction of Missouri Bottom Road, from Tulip Tree Lane to Taussig Road (St. Louis Mills Boulevard).

The existing 1,200 linear foot roadway was a winding, two-lane, 22-foot wide asphalt pavement with open

drainage. The design replaced the roadway with a two-lane, 29-foot wide pavement section with integral curb and approximately 2,000 LF of enclosed drainage. Associated improvements included concrete sidewalks the length of the road, modular block retaining walls, and guard rails. The design greatly improved unsafe site conditions by changing horizontal and vertical alignments.

Problems/Solutions: During the design, the existing 100 foot high roadway slope began to fail. In order to construct the proposed roadway project, the existing slope would need to be stabilized. The solution for stabilizing the roadway slope was to construct an underdrain system parallel to the roadway slope. The purpose of this system was to collect any subsurface ground water and direct it away from the underlying shale. The design included 3,800 LF of interceptor and collector slope drains. The slope was regraded to a 3:1 slope. A 1,100 linear foot dry swale was constructed at the bottom of the slope in order to collect the water from the underdrain system and to comply with MSD's Stormwater Quality requirements. Photo below.

Surveys included the existing right-of-way, property information, topography, utilities, and cross sections.

Design services included preparation of detailed construction plans; right-of-way plans; easements; specifications; cost estimates; utility coordination; subsurface investigations; compliance with MSD water quality requirements; bidding documents; and construction administration services.



Photo of dry swale (BMP) at base of 100-foot high embankment

QUICK FACTS

Type Street Reconstruction

Owner City of Hazelwood

Services Civil, Project Management

Const Cost \$1.2 M

Dates – Design: 2011

Construction: 2012-2013

Contact:

David Stewart

314.513.5030

dcstewart@hazelwoodmo.org

Special Features

Enclosed drainage system

Slope Stabilization

Dry Swale Construction to

collect stormwater

Surveys

Erosion Control Plan

Fee Fee Road Improvements

STP-5408 (605)

Hazelwood, Missouri



QUICK FACTS

Type Roadway Improvements

Owner City of Hazelwood
Mr. David Stewart
Director of Public Works
314.513.5030

Services Civil, surveys

Costs \$1,108,553 (Est)
\$729,000 CC

Dates Design 2011 -2013
Construction: 2013

Special Features

ADA -accessible sidewalks
Federal funded
Designed to MoDOT standards
Bioretention
Hydrodynamic Separators

EDM Incorporated provided engineering services for the design of a 1450-foot long, three-lane roadway between McDonnell Boulevard and Chapel Ridge. This project was federally funded and designed to MoDOT Standards.

Work included surveys (topographic and right-of-way), drainage design, roadway design, utility coordination, easements, right-of-way, and construction inspection services.

The project included sidewalks down one side of the 1450-foot length of street, and ADA-accessible improvements to the intersection of Fee Fee and McDonnell Boulevard, providing pedestrian access from a residential area to the bus stop at Fee Fee & McDonnell. The intersection was within St. Louis County right-of-way; therefore, any new work in this area was designed to St. Louis County Highway Standards.

BMPs, consisting of two bioretention basins and two hydrodynamic separators, were used in order to meet Metropolitan St. Louis Sewer District's (MSD) stormwater management requirements.

Structural
Civil
Building Systems
Project Management

transportation

EDM INCORPORATED



INFRASTRUCTURE EXPERIENCE

SPECIALTY SERVICES

Site Development
Roadway Design
Curbs/Sidewalk Design
Bridges/Culvert Replacement Design
Pedestrian Bridges
Data Collection & Analysis
Life Cycle Cost Analysis
Traffic Control Plans
Stormwater Needs Assessments
Stormwater Master Plans
Sanitary Sewer Line and Pump Stations
Hydraulic Modeling & Reports
Stormwater Erosion Prevention
Stormwater Pollution Prevention Plans
Permitting
Parking Lots
Parking Garages
Cost Estimating
Technical and Grant Application Assistance
Construction Phase Services

Bridges

St. Charles Co. 79 Bridges - Peruque (STP)
St. Charles Co. 79 Bridges - St. Paul (STP)
Sonderen Road Bridge Replacement & Mexico Road Widening - O'Fallon, MO
West Meyer Road Bridge Replacement - Wentzville, MO (STP)
Executive Centre Parkway & Bridge - St. Peters, MO
Augusta Bottom Road - Two Bridge Replacements - St. Charles, MO (STP)

Municipal/State Roadway Projects

City of Fairview Heights Kassing Drive & Summit Avenue

Pitman Hill Road Improvements
Clayton Road Improvements
Jungs Station Road Improvements
Schuetz Road Improvements
Truman Parkway - Grattan Street (STP)
Various Webster Groves Street Improvements
Missouri Bottom Road
City of Belleville N. 43rd Street
MODOT - I-55 Ramps at Lafayette, St. Louis, MO
MODOT-Olive and I-7- Traffic Handling Plans, St. Louis, MO
MODOT-I-44/55 Overlay, St. Louis, MO
MODOT- I-55 Ramps
Mexico Road Widening
Barrett Station Road (STP)
Mason and Ladue Road Intersection
Columbia Bottom Concervation Area
Fee Fee Road Improvements
Teson Road Drainage Design
Woodson Road Reconstruction Improvements
Central and Norwood Avenues Street & Drainage Improvements (IDOT & MFT Funded)

Private Sector Roadway Projects

Anheuser-Busch Northeast Campus Roadway and Lot
Good Shepherd Lutheran Church Parking Lot and Road
SeaWorld Ohio Parking Roadway
MasterCard Headquarters Road & Parking
Washington University Parking & Roads
South County Shoppingtown Parking & Roads
McKendree College Parking and Roads

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Design Solutions That Work

The numerous road and sewer projects designed since 1973 for over 40 municipalities in the St. Louis region exemplify the breadth of experience enjoyed the Civil Division. Most of our projects are for repeat clients; many for over 25 years. These projects include roadways & bridges, parks, wastewater, potable water, channel improvement, pumping stations, site development and feasibility studies.

The consistent delivery of projects that exceed the expectation of our clients is due to an approach that evolved over time that focuses on the following principles:

Listen Clearly

Exceeding expectations begins with hearing, understanding and documenting the Owner's function, price and time goals.

Develop Thoroughly

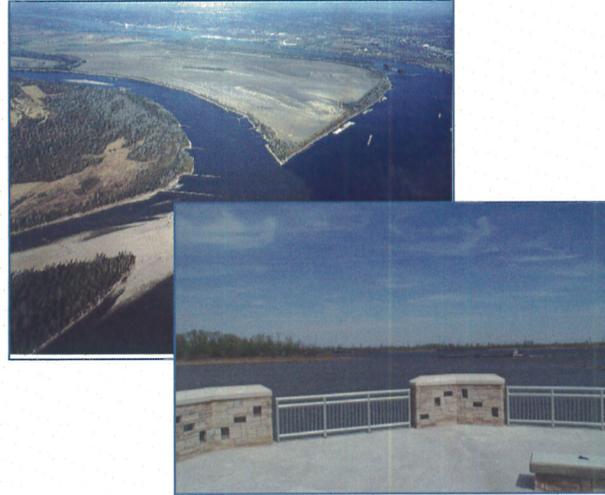
Success happens when the needs and interests of all stakeholders are addressed and resolved during the development of any project.

Deliver Timely Accurate Documents

A stable design team that has developed a quality based design and production process over an extended period is best able to consistently produce practical, accurate and appropriate construction documents.

EDM utilizes state of the art computer resources;
We talk your language!

Columbia Bottom Conservation Area Recipient of the ASCE St. Louis Section 2003 Outstanding Civil Engineering Achievement Award



"The Missouri Department of Conservation appreciates the professional manner in which the project challenges were handled and would recommend the services of EDM Incorporated to fulfill your engineering needs."

Project Supervisor
Mo. Department of Conservation



Mastercard International
O'Fallon, MO
Site
Development, Parking
Fields, Drainage



Maryland Heights Sewers

Stormwater drainage, enclosed drainage system, conceptual street profiling, 2,935 LF of 12 to 48-inch RCP, 22 inlets, 10 manholes, 200 LF reinforced channel, 520 LF of natural channel reconstruction.

Barrett Station Road

6,500', STP-funded road improvements, addition of center turn lane, widening to 3 lanes, relocated storm sewer system, side-walks, driveways and commercial entrances, street intersections, retaining wall design, culvert replacement, erosion control, six-phase handling plans, 2,500' of 18-inch diameter sanitary sewer.



Anheuser-Busch Northeast Campus Site Development

Reconfigured 400,000 SF Parking Lot
Security Fencing
Storm Sewer Improvements
Lighting
Landscaping & Irrigation
LEED Certification



Extensive Stormwater
Master Planning Experience



**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:

EDM Incorporated

Firm Contact Name:

Steven M. Skasick

Contact Email
Address:

steve.skasick@edm-inc.com

Firm's Mailing Address:

220 Mansion House Center
St. Louis, Missouri 63102

Work Category: (choose all that apply)

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures



**Missouri's
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for community
development

COMPANY REFERENCE FORM

Firm's Name: EDM Incorporated

Local Agency Name: City of Hazelwood

Local Agency Phone Number: 314 513-5030

Signature & Title of Rater: David Stewart, Public Works Director

General Project Description/Type: Fee Fee Road Improvements

EDM provided engineering services for the design of a 1450-foot long, three-lane roadway between McDonnell Boulevard and Chapel Ridge. Work included surveys (topographic and right-of-way), drainage design, roadway design, utility coordination, easements, right-of-way and construction inspection. The project included sidewalks down one side of the 1450-foot length and ADA-accessible improvements.

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures

Timeliness:

- Below Average
- Average
- Above Average
- Excellent

Work Quality:

- Below Average
- Average
- Above Average
- Excellent

Overall Rating:

- Below Average
- Average
- Above Average
- Excellent

General Remarks/Comments:

Successfully designed multi-phase road reconstruction project w/many utility conflicts.



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COMPANY REFERENCE FORM

Firm's Name: EDM Incorporated

Local Agency Name: City of Hazelwood

Local Agency Phone Number: 314 513-5030

Signature & Title of Rater: 
David Stewart, Public Works Director

General Project Description/Type: Missouri Bottom Road Reconstruction

EDM was hired to provide engineering services for the reconstruction of Missouri Bottom Road, from Tulip Tree Lane to Taussig Road. The design replaced the existing 1,200 LF winding, two lane 22-foot wide asphalt pavement with a two-lane, 29-foot wide pavement section with integral curb and approximately 2,000 LF of enclosed drainage. During the design, the existing 100- high roadway slope began to fail. EDM developed a solution for stabilizing the roadway slope.

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures

Timeliness:

- Below Average
- Average
- Above Average
- Excellent

Work Quality:

- Below Average
- Average
- Above Average
- Excellent

Overall Rating:

- Below Average
- Average
- Above Average
- Excellent

General Remarks/Comments:

Successfully designed solution to an unstable slope in addition to road reconstruction project.



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COMPANY REFERENCE FORM

Firm's Name: EDM Incorporated

Local Agency Name: City of University City

Local Agency Phone Number: 314/505-8566

Signature & Title of Rater: Richard Wilson, P.E. Public Works and Parks Director

General Project Description/Type: George Street Improvements

Engineering services to repair or rehabilitate pavement for the narrow (approximately 18 feet wide) asphalt pavement on George Street, while improving ride quality, provide enhanced access to residential driveways and repair the deteriorated profile grade at the intersection with Melrose.

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures

Timeliness:

- Below Average
- Average
- Above Average
- Excellent

Work Quality:

- Below Average
- Average
- Above Average
- Excellent

Overall Rating:

- Below Average
- Average
- Above Average
- Excellent

General Remarks/Comments: