

November 14, 2014

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

Re: **LPA On-Call Professional Services – Trails and Sidewalks**

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 trail and sidewalk design services to more than a dozen St. Louis area municipalities, plus, both 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, we are prequalified with Great Rivers Greenway. Our staff has recent on-the-job experience applying the skills necessary to perform trail and sidewalk design services for LPAs.

The following is a list of some of our recent trail and sidewalk experience:

**Marsh & Hutchinson** - Len Madalon, P.E. was the lead engineer on this sidewalk and ramp improvement project, prepared for the City of Ellisville, MO. It consisted on the reconstruction of ramps and a crosswalk at this busy offset intersection.



**EDM Incorporated**



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**City-Wide Sidewalk Replacement** – EDM was selected by the Village of Wilbur Park, MO to design an ADA-compliant street replacement program in this South St. Louis County community. Most houses in Wilbur Park were constructed in the 1940s. Streets were concrete with rolled curb, 4-foot wide sidewalks and a tree lawn. The 60-year old sidewalks were deteriorating due to age, displacement by the adjacent maturing trees and chemicals.

EDM prepared an inventory of the Village’s 56,000 square feet of existing sidewalks. Photos were taken of all defects and logged by address. Typical defects included uneven slabs (tripping hazard), broken slabs, over-sized cracks and excessive spalling. In addition to the sidewalks, driveway aprons and carriage walks were also inventoried.

Approximately 22% of the Village’s sidewalks were found to be defective.



**Oak Valley-Hickory Trail** - As a part of the Oak Valley-Hickory-Geyer Crossing project, EDM designed a 700-foot long asphalt trail to fit within the city right of way. The design placed the trail adjacent to a redesigned gravel bed stream to give the residents an opportunity to get a little closer to nature. A parking pad was designed with pervious pavers adjacent to the trail to allow utility access to Ameren and AT&T. New trees were specified to replace those that could not be avoided. Gas and water lines were relocated.





The personnel who would perform the Roadway Design services consist of Steven M. Skasick, P.E., Len Madalon, P.E. and/or 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, stormwater 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. .

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 trails and sidewalks 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 written in a cursive, flowing style.

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

SMS/vp

# Sidewalk Inventory

Village of Wilbur Park, MO



EDM Incorporated completed a village-wide sidewalk inventory for the Village of Wilbur Park. Over 10,000 feet of sidewalks and driveway approaches were inventoried for the approximately 200 residents. We also prepared cost estimates for the work, conducted several public meetings to address residents' concerns, prepared bidding documents, secured bids, and provided construction administration services for the Village.

The following are examples of problem areas and a repaired section.



Before



Before



After

“

I want to personally thank you for the extra attention you have given this project. Your professionalism and patience has been exemplary.”

Joseph Wilhite  
Mayor

## QUICK FACTS

**Type** Residential Sidewalk Inventory & Reconstruction

**Owner** –Village of Wilbur Park

### Services

- Inventory
- Construction Documents
- Construction Administration

### Dates

Inventory: 2008

Construction: 2009

**Const. Cost** - \$100,000

**Contact** Mayor Joseph Wilhite  
631-3963

[jewil44@yahoo.com](mailto:jewil44@yahoo.com)

# Columbia Bottom Conservation Area

St. Louis County, Missouri



The Conservation Department purchased this 4,318 acre area in 1997 to create an urban conservation area offering a variety of public uses and compatible habitats. The area includes a view of the confluence of the Missouri and Mississippi rivers, over 6.5 miles of river frontage, about 800 acres of bottomland forest and a 110 acre island. Columbia Bottom Conservation Area is in north St. Louis County at the confluence of the Missouri and Mississippi Rivers, the third largest river system in the world, and the largest in North America. The Corps of Discovery, led by Meriwether Lewis and William Clark, set out from this very spot in 1804.

St. Louis County's Missouri Department of Conservation chose EDM to provide civil engineering and to design public access areas, where visitors could enjoy the area and have access to the confluence from all perspectives.

Our work consisted of designing a river access, confluence viewing area platform, accessible fishing pier, boat ramps and parking lots. Five miles of hiking-biking trails and five miles of roadway facilities (all designed ADA compliant) at the Columbia Bottom Conservation Area were included. The paved overlook structure can be accessed by car from a five-mile paved road and bicyclists and walkers can use the five-mile limestone biking trail.

EDM provided site design engineering, full-time resident construction inspection, and project management of a team including hydrologic engineers, landscape architects, architects, fishing consultants and geotechnical engineers.

## QUICK FACTS

**Type** – Site Development

**Owner** – Missouri Department of Conservation

**Services** Civil Engineering, Project Management

**ConstCost** \$3.5M

**Size** 4,318 acres

**Dates** 2002

### Key Features

Viewing Platform  
Fishing Pier  
Boat Ramps  
Parking Lots  
Hiking/Biking Trail  
Roadway Facilities

"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."

**Edwin F. Kuhlmann, PE**  
**Project Supervisor**  
**MO Department of Conservation**

**ASC E St. Louis Section**  
**2003 Outstanding Civil Engineering Achievement Award**

Contact: Edward Kuhlmann

# Oak Valley-Hickory-Geyer Crossing

Frontenac, Missouri



This project manages stormwater runoff at the local level through the use of natural systems and bypasses concentrated flow from the upstream watershed. The prior stormwater system consisted of an upstream channelized portion, requiring intensive maintenance, and a severely eroded downstream portion.

EDM conducted the hydraulic calculations to appropriately bypass flow from upstream watersheds to a natural system with adequate capacity. Piping systems include over 1800 linear feet, ranging in size from 12 to 66 inches in diameter. The project also includes over 350 linear feet of box culvert.

Local flows are directed to a natural channel system with a cobble bottom. The upstream section is essentially straight and continues for 384 feet. The downstream section meanders and has a length of 500 feet. The meandering stream was designed according to fluvial geomorphic principals.

Oak Valley-Hickory Trail: As a part of this project, EDM designed a 700-foot long asphalt trail to fit within the city right of way. The design placed the trail adjacent to a redesigned gravel bed stream to give the residents an opportunity to get a little closer to nature. A parking pad was designed with pervious pavers adjacent to the trail to allow utility access to Ameren and AT&T. New trees were specified to replace those that could not be avoided. Gas and water lines were relocated. See photo to right.



Permits were obtained for Land Disturbance and Water Quality (401 and 404 Individual Permit). Mitigation was required and some was provided onsite.

One residence was flood proofed at two locations. At the first location, a window well draining to an inlet with a Tideflex backflow preventer at the outfall was constructed. The basement stairwell was flood proofed by adding an underground storage tank to hold the local rainfall while Two-Mile Creek was up.

Construction of this project relieves flooding at three road crossings during the 15-year storm and protects two homes from 100-year flooding.

## QUICK FACTS

**Type** Stormwater Improvements

**Owner** City of Frontenac

**Contact** Jeff Wappelhorst, 314/994-0654

**Services** Civil, Project Management

**ConstCost** \$820,588

### Dates

Design: 2007

Constructed: 2009/2010

### Special Features

- Utility Coordination
- Trail Design
- Flood Control
- Fluvial Geomorphology
- Pervious Paves
- 404 Individual Permit
- Hydraulic Calculations
- Floodproofing
- Onsite Mitigation

# 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

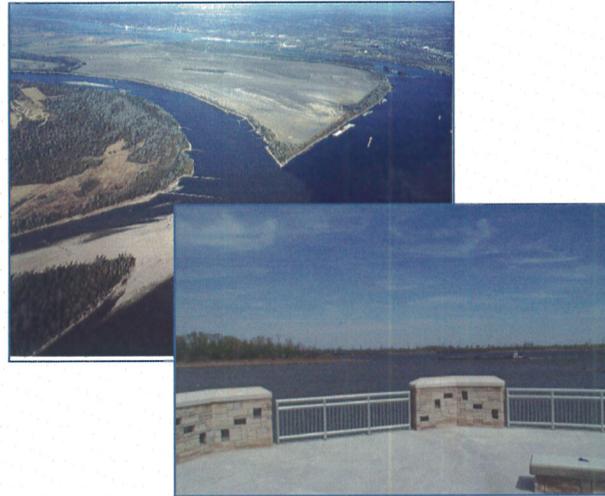
*Success happens when the needs and interests of all stakeholders are addressed and resolved during the development of any project.*

## 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.

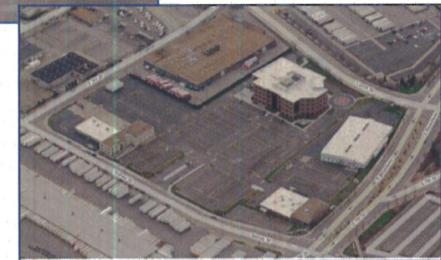
### Barrett Station Road

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