

ESTABLISHED 1980
PRESIDENTS
1980 - 1991 HRINSIN, JOHN A.
1992 - BERTHOLD, WILLIAM K.



CIVIL / STRUCTURAL /
LAND SURVEYING

November 14, 2013

Missouri Local Program/ MoDOT
Central Office
105 W. Capitol Avenue
Jefferson City, MO 65102

**RE: MISSOURI LOCAL PROGRAM FOR COMMUNITY DEVELOPMENT – ON CALL PROFESSIONAL SERVICES RFQ
TRAILS & SIDEWALKS**

1.0 Prequalification's

Frontenac Engineering Group has submitted all information required for MoDOT pre-qualification and expects approval prior to the solicitation expiration date.

2.0 3 Company Reference Forms

Three completed company reference forms are attached.

3.0 General Experience

The Frontenac Team consists of sufficient experienced personnel, which will enable adequate staffing to successfully execute multiple, concurrent work orders. We will assemble each project team based on the individual team members' technical capabilities and experience relative to the project scope. The Team's registered professionals and computer aided support staff understand MoDOT guidelines and ADA compliancy issues relative to potential work orders involving mill and overlay widening, street replacement work, culverts, sewers and utilities, and drainage. Our Team members' educational background and practical experience uniquely qualifies the entire staff for the proposed assignments.

Our firm engineers ADA accessible walking paths with unique characteristics to suit all types of terrain and usage demands. We have extensive experience working on high-traffic projects, such as the St. Louis Zoo Central Corridor, which accommodates over 1 million visitors each year. We understand how to incorporate all of the vital parameters of walking paths, including aesthetic appeal, user type, drainage, erosion control, bridges, and user safety. Each design is unique for its use and particular site conditions. Specific project examples are as follows.

4.0 Past Performance

St. Louis Zoological Park – Central Walk Project: Civil and structural engineering for design of ADA accessible walking paths to serve zoo exhibits and facilities through the central corridor of the St. Louis Zoo. The area was highly congested with numerous utilities and zoo exhibits



World Bird Sanctuary – Education Center Access Trail: Designed ADA accessible paved trails at outdoor environmental education center. Work included surveying, design and construction of network of roads and sewers.



Rossmann School – ½ Mile Nature and Running Trail: Designed a ½ mile long looped trail for use as an outdoor classroom and cross-country jogging trail by Rossmann School. Design included bridges across creeks and erosion control structures. This was part of a 25-acre campus renovation with new entrance, track, field, trail and drives.



ESTABLISHED 1980
 PRESIDENTS
 1980 - 1991 HRINSIN, JOHN A.
 1992 - BERTHOLD, WILLIAM K.



CIVIL / STRUCTURAL /
 LAND SURVEYING

Lemay Plaza - Neighborhood signature pedestrian plaza, ADA compliant, with bus stop shelter, porous pavement, rain garden and landscaping. MoDOT permit project.



Maplewood Sidewalks - Replacement of sidewalks related to Manchester Phase 2 Road Project (STP). Design of ADA compliant sidewalks and ramps, coordination with traffic signal upgrades.



5.0 Qualifications of the Personnel

Our combined staff experience exceeds 130 years of engineering design and construction experience on a very wide variety of projects including LPA projects and MoDOT permit projects.

EMPLOYEES BY DISCIPLINE	PROFESSIONAL ENGINEER	E.I.T.
CIVIL ENGINEERS		
William K. Berthold, P.E., P.L.S.	✓	
Steven R. Miller, P.E.	✓	
Dave G. Welton, P.E.	✓	
STRUCTURAL ENGINEERS & TECHNICIANS		
Kent MacPeck		✓
Joshua J. Schmitz, P.E.	✓	
Aaron M. Odle		✓
Debbie Killius		
Cory Calkins		
CADD DRAFTSMEN		
Ameet Prasad		
Jennifer Brown		

Personnel Qualifications

Mr. Berthold has over 25 years experience as a project manager and civil/structural engineer on over 1,000 projects ranging from site investigations to feasibility studies to new site development, to facility rehabilitation and upgrade. Mr. Berthold has experience with local, regional, and national design standards. His project experience has included work with private developers, municipalities, water and sewer districts, hospitals, and schools, institutions, and state agencies. Mr. Berthold also has extensive construction experience as a field engineer and project manager. His construction experience includes building renovation and new construction, utilities, sewers, municipal facilities, industrial processes, and bridges.

ESTABLISHED 1980
 PRESIDENTS
 1980 - 1991 HRINSIN, JOHN A.
 1992 - BERTHOLD, WILLIAM K.



CIVIL / STRUCTURAL /
 LAND SURVEYING

Capabilities

- Project Management
- Construction Coordination
- Coordination of Public Agency Review and Permitting
- Rezoning and Public Hearing Representation
- Site Planning and Site Feasibility
- Site Design
- Roadway Design
- Utility and Sewer Planning and Design
- Traffic and Parking Design
- Stormwater Detention Design
- Floodplain and Hydraulic Analysis
- Accurate Cost Estimating

Education:

BS Geology, University of Missouri- Columbia - 1985
 BSCE, Civil Engineering, University of Missouri - Columbia – 1987

Registrations:

Missouri, Illinois, Colorado, Nevada - Registered Professional Engineer
 Missouri, Illinois – Registered Land Surveyor

6.0 Familiarity/Capability

Frontenac Engineering has extensive experience working on contracts for a variety of private clients and municipalities. We have completed numerous MoDOT permit project during our 33 years in business. We understand that a prompt response to work orders and completing projects on-time and within budget is essential for success. We pride ourselves in honoring our commitments to our clients. Our firm has the capacity and experience to accomplish any MoDOT design project within the required time and budget.

7.0 Accessibility

Responsiveness is a top priority for Frontenac Engineering. In order to maintain the flexibility and time necessary to respond quickly to our client’s needs we maintain a margin of excess capacity as indicated by the following table.

Employee Category	Current Utilization	% Availability	Hour/Month Availability
Civil Engineers	75%	25%	160 hrs/month
Land Surveyors	75%	25%	120 hrs/month
Draftsmen	75%	25%	80 hrs/month
Structural Engineers	80%	20%	120 hrs/month

If selected for any of the LPA projects, we will work to eliminate surprises, accurately predict costs and deliver our work on schedule. We appreciate your interest in Frontenac Engineering and look forward to hearing from you.

Respectfully Yours,

William K. Berthold, P.E., P.L.S.
 President

COMPANY PROFILE

Frontenac Engineering Group, Inc.
 2725 Sutton Boulevard
 St. Louis, Missouri 63143
 314-644-2200 Phone
 314-644-0645 Fax
 www.fe-stl.com



Types of Service

CIVIL

Site Analysis
 Site Development Design
 Roadway Design and Reconstruction
 Utility and Sewer Main Extension & Replacement
 Flood Plain Studies
 Feasibility Studies
 Zoning
 Permitting
 BMP Inspections
 Sustainable Design Practice (LEED)
 Contract Administration

CONTRACT ADMINISTRATION

Bidding
 Contract Preparation
 Project Coordination
 Inspection
 Testing
 Budget Management
 Funding Agency Requirements

STRUCTURAL

Structural Inspection & Evaluation
 Cost Estimation
 Project Management
 Seismic Rehabilitation
 Retrofitting and Code Compliance
 On-site Construction Troubleshooting
 Structural Analysis & Design
 Insurance Claims and Liability Assessment

A Brief History

Frontenac Engineering Group provides comprehensive engineering services to the municipal, industrial, commercial and institutional building and land development markets; our focus is Civil and Structural Engineering and Land Surveying. Located in Maplewood, Missouri since 1992, our unparalleled accuracy and outstanding level of service enables our clients to execute their projects on time and on budget. We have extensive experience working with businesses, municipalities, institutions, and real estate developers.

Our staff devotes their personal attention to every client, and constant oversight ensures timely and precise results. Frontenac Engineering data acquisition, analysis, and engineering technologies are state-of-the-art; our experienced 20 person staff is dedicated to all aspects of our clients' development needs.

Types of Projects

Commercial
 Municipal
 Retail
 Schools and Colleges
 Land Development
 Redevelopment
 Parks
 Hospitals
 Traffic/Transportation
 Institutions
 Research Facilities
 Zoos
 Prisons
 Army / D.O.D.
 Medical Offices
 Warehouses
 Manufacturing
 Sports
 Museums
 Roads
 Sewers
 Utilities



Related Projects

Roxana Water District

Route Surveys

City of Maplewood

Street Projects

Sutton Avenue Lighting Project

Street Lighting

Jefferson County Public Water District III

Water Main Extensions

United States Postal Service

Mount Vernon, IL

St. Louis, MO

Chesterfield, MO

University City, MO

Columbia, IL

Park Hills, MO

Manchester Avenue Reconstruction

Street Reconstruction

Deer Creek Park Lighting Project

Park Lighting and

Electric Relocation



Road Work

Services Provided:

- Pavement Evaluation
- Traffic Planning
- Sewer & Utility Design and Relocation
- Pavement Design
- Route Selection
- Right-of-way
- Land Surveying
- Bidding & Construction
- Phase Services

Our company designs, bids, and administers roadway construction and rehabilitation projects.

On road projects we utilize traffic planning, sewer and utility surveys, rehabilitation pavement design, and construction planning to produce accurate and economical designs. Our bidding and construction phase services produce thorough and accountable bids, contracts, roadway improvements, pay request processing, and project closeout.

In addition to our engineering abilities, we perform complete survey and design documentation to expedite the permit and review process. Our 25 years of experience working with regulatory and permitting agencies guides our projects to completion on-time and on-budget.



Related Projects

Rock Hill Road Culvert

Replacement

Culvert / Bridge

Replacement

Sugar Creek Road Bridge

Replacement

Bridge Replacement

Bellevue Municipal

Parking Lot

Surface Parking and

Landscaping

Maplewood Community

Center

Roof Replacement

National Geospatial-

Intelligence Agency

United States

Department of Defense

Various Building and

Mechanical Projects

City of Normandy

5-year Street Program



Manchester Avenue

Maplewood, Missouri

Services: Contract Administration
 Provided: Inspection
 Testing
 Construction Coordination

Our company has a longstanding relationship with many municipalities, including the City of Maplewood, for which we have provided engineering, permitting, and contract administration services for the reconstruction of numerous city streets, including Manchester Avenue.

These projects utilize traffic studies and implementation of signalizations, pavement markings, roadway and streetscape improvements. Our scope of work includes topographic surveys, easements, roadway and streetscape design, and construction documents, including drainage and utility relocations/adjustments. This and other projects that we have managed are funded through MoDOT with Federal T-21 funding.



Related Projects

Roxana Water District

Route Surveys

City of Maplewood

Street Projects

Sutton Avenue Lighting Project

Street Lighting

Jefferson County Public Water District III

Water Main Extensions

United States Postal Service

Mount Vernon, IL

St. Louis, MO

Chesterfield, MO

University City, MO

Columbia, IL

Park Hills, MO

Manchester Avenue Reconstruction

Street Reconstruction

Deer Creek Park Lighting Project

Park Lighting and

Electric Relocation



Pedestrian Trails and Paths

Services: Land Planning
 Provided: ADA Design
 Civil Engineering
 Land Surveying
 Contract Administration
 Testing & Inspections
 Easements
 Construction Phase
 Services

Our firm engineers ADA accessible walking paths with unique characteristics to suit all types of terrain and usage demands. We have extensive experience working on high-traffic projects, such as the St. Louis Zoo Central Corridor, which accommodates over 1 million visitors each year. We understand how to incorporate all of the vital parameters of walking paths, including aesthetic appeal, user type, drainage, erosion control, bridges, and user safety.