CONTACT
Tyler Nelson, PE
Senior Project Manager
tnelson@fehrgraham.com | 815.394.4700

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
200 PRAIRIE STREET, SUITE 208
ROCKFORD, IL 61107
815.394.4700

insight • experience • results

PROPOSAL

Landscape Architectural and Engineering Services for Porter Park Phase II Expansion Project

PREPARED FOR

VILLAGE of ROSCOE

Village of Roscoe
Village Administrator
JOSEF KURLINKUS
10631 Main Street
Roscoe, IL 61073

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

September 10, 2025

Josef Kurlinkus
Village Administrator
Village of Roscoe
10631 Main Street
Roscoe, Illinois 61032

RE: Proposal – Porter Park Phase II Expansion Project (OSLAD Grant Funded)

Dear Josef,

Fehr Graham is eager to help the Village of Roscoe with the Porter Park Phase II Expansion Project. Our team has extensive experience with park improvements, including new restroom facilities, disc golf courses, trail extensions, pathways, fitness areas and native pollinator habitat restoration. We have the resources to ensure this project is completed within the Village's timeline, and we want to be part of your team.

We understand this project is more than expanding recreational opportunities. It's also a valuable economic development opportunity that can position Porter Park as a regional destination that draws visitors from surrounding communities.

Our proposal outlines a plan that maximizes the park's potential by prioritizing accessibility, parking, amenities and enhanced recreational areas, all in alignment with the approved Open Space Lands Acquisition and Development scope and budget. These improvements will help Porter Park host community events, provide a top-tier golf experience at no charge, and serve as a key trailhead location for the region's growing path and trail systems.

We look forward to working with the Village of Roscoe to reimagine Porter Park as a community asset that not only attracts visitors but also instills pride in residents.

Sincerely,

Tyler Nelson, PE
Senior Project Manager

Business Organization

History

Fehr Graham was founded in September 1973 by professional engineers Allen Fehr and Joseph Graham. The firm was established by merging these two individuals' practices established in 1965 and 1962, respectively. Today, we proudly serve our valued clients from 12 office locations: Aurora, Champaign, East Peoria, Freeport, Rockford, Rochelle, and Springfield, Illinois; Cedar Rapids, Manchester and West Union, Iowa; and Monroe and Sheboygan, Wisconsin.

Professional Staff

Our staff of 250 is comprised of a wide range of experts, including professional engineers, landscape architects, professional geologists, environmental scientists, safety professionals, engineers-in-training, professional land surveyors, community planners and development specialists, engineering and environmental technicians, field inspectors, grant writers, and support technicians and assistants. Our staff has hands-on experience and applicable registrations and licenses in their areas of discipline.

Organization

Fehr Graham is a Limited Liability Company led by Kyle Saunders. Trilon Group owns Fehr Graham.

CONTACT
Tyler Nelson, PE
Senior Project Manager
tnelson@fehrgraham.com

200 Prairie Street, Suite 208
Rockford, Illinois 61107
815.394.4700
fehrgraham.com

Office Locations

ILLINOIS

Aurora
230 Woodlawn Avenue
Aurora, IL 60506

Champaign
1610 Broadmoor Drive
Champaign, IL 61821

East Peoria
140 East Washington Street
East Peoria, IL 61611

Freeport
101 West Stephenson Street
Freeport, IL 61032

Rochelle
515 Lincoln Highway
Rochelle, IL 61068

Rockford
200 Prairie Street, Suite 208
Rockford, IL 61107

Springfield
2160 South Sixth Street, Suite D-1
Springfield, IL 62703

IOWA

Cedar Rapids
200 5th Avenue SE, Suite 100
Cedar Rapids, IA 52401

Manchester
221 East Main Street, Suite 301
Manchester, IA 52057

West Union
128 South Vine Street
West Union, IA 52175

WISCONSIN

Monroe
1107 16th Avenue
Monroe, WI 53566

Sheboygan
909 North 8th Street, Suite 101
Sheboygan, WI 53081

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

Fairview Fitness Park to debut next-level playground

DECATUR, ILLINOIS

Decatur
PARK DISTRICT

CLIENT CONTACT
Clay Gerhard
Executive Director
217.422.5911
cgerhard@decparks.com

PERIOD OF SERVICES
June 2023 to October 2024

CONTRACT VALUE
$69,450

CONSTRUCTION COST
$1.4 million

TEAM

LANDSCAPE ARCHITECT PROJECT MANAGER
Mark Decker, PLA

SENIOR ENGINEERING TECHNICIAN
Jeff Gee

ASSOCIATE ENGINEERING TECHNICIAN
Eric Adkins

AT A GLANCE

- Park design.
- Civil engineering.
- Construction layout.

When the Decatur Park District decided to overhaul Fairview Park with fitness-focused amenities, it already had a concept. But after seeing Fehr Graham's fresh design take, it pivoted. The Park District received an Open Space Lands Acquisition and Development (OSLAD) grant based on a concept created by another firm. But it was Fehr Graham's design that resonated with the Park District's vision.

Mixing play and fitness

Our team designed Fairview Park to offer a one-of-a-kind space blending recreation and physical challenge. It will feature a fitness and football-themed playground designed to inspire users of all ages. A ninja-style obstacle course will test agility and coordination, and a football challenge area will allow players to work on kicking and passing. For adults, an outdoor gym with fitness equipment will support healthy lifestyles, and a large playground will allow children to climb, spin and engage in interactive and sensory-rich play. The design also features a bike skills course with winding pathways, providing youth a fun and safe space to learn and practice riding.

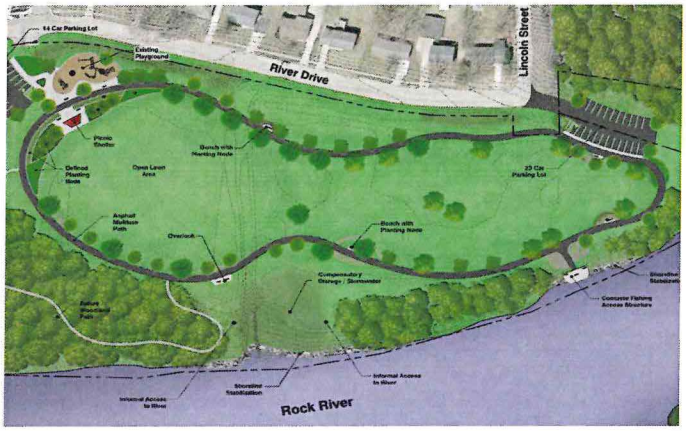
Navigating the details

Fehr Graham provided engineering design and construction layout. We adjusted pathway alignments to navigate a steep slope, ensuring safe and accessible routes. The most distinct element is the custom football wall, designed by Fehr Graham's landscape architects and structural engineers. Something playground equipment vendors don't offer, the football wall is a signature feature that will become one of the park's focal points.

Collaboration

Fehr Graham aligned the amenities with the Park District's vision of promoting wellness and activity. The park is still under construction, but what it will soon be is clear: a vibrant community hub where families, athletes and fitness enthusiasts gather to play, exercise and connect.

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL



Donald B. Johnson Riverfront Park: Land transformed with scenic paths, play areas

BYRON, ILLINOIS

The Byron Park District wanted to create the Donald B. Johnson Riverfront Park on 10 vacant acres along the Rock River. The Park District hoped to develop the area and add a multiuse path, event spaces with shelter and parking facilities, and playground equipment for children of all ages.

Park District officials hired Fehr Graham to prepare and submit applications to the Illinois Department of Natural Resources (DNR) through the Open Space Lands Acquisition and Development (OSLAD) grant program. The Park District successfully secured a $400,000 grant in 2020 to help fund the project.

Our team met with the Park District Board to present the site features and general vision for the riverfront park. It was important to create sight lines through the park and add access to the Rock River. With this in mind, the design included half a mile of looped multiuse path with frontage along the river. Because most of the site is within Special Flood Hazard Areas, notably the Floodway and Zone AE, the improvements needed to be permitted and completed following Illinois DNR Office of Water Resources and U.S. Army Corps of Engineers standards.

Our team oversaw this project from start to finish, assisting the Park District with conceptual plans, budget estimates and grant funding. Fehr Graham developed engineering plans and specifications for the improvements, completed permitting and provided support during construction. Work was completed in spring 2024.

BYRON PARK DISTRICT

CLIENT CONTACT
Nick Warner
Executive Director
815.234.6218
nwarner@byronparkdistrict.com

PERIOD OF SERVICES
February 2019 to 2024

CONTRACT VALUE
$110,000

CONSTRUCTION COST
$923,000

FUNDING
LOCAL/OSLAD

PROJECT TEAM

PROJECT MANAGER
Jason Stoll, PE

LANDSCAPE ARCHITECT
Mark Decker, PLA

SENIOR COMMUNITY DEVELOPMENT SPECIALIST
Bridgette Stocks

TRANSPORTATION PROJECT ENGINEER
Brock Sutton, PE

AT A GLANCE

- Conceptual Design Services.
- Riverfront Master Plans.
- Phase I and Phase II engineering.
- Landscape architecture services.
- Wetlands Delineation Report
- OSLAD grant application and grant administration services.
- Joint permit applications with Illinois DNR and U.S. Army Corps of Engineers.
- Bidding.
- Construction staking and layout.
- Shop drawing reviews.
- Construction administration.

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

Master Plan revitalizes Oakdale Nature Preserve

FREEPORT, ILLINOIS

FREEPORT PARK DISTRICT

CLIENT CONTACT
Ron Schneider
Executive Director
815.235.6114
rschneider@freeportparkdistrict.org

PERIOD OF SERVICES
September 2020 to March 2022

CONTRACT VALUE
$98,000

CONSTRUCTION COST
$842,000

PROJECT TEAM

SENIOR PROJECT ENGINEER
Andrew Reeter, PE, CFM

PROJECT ENGINEER
Jennifer Buholzer, PE

AT A GLANCE

- Secured OSLAD grant funding.
- Completed project design.
- Master planning.
- Construction engineering.

Oakdale Nature Preserve in Freeport, Illinois, is a historic gem offering more than 130 acres of forests, streams and restored prairies to visitors and locals.

The Freeport Park District hired Fehr Graham to support goals to work toward a Master Plan set in 2015 to revitalize the aging and dilapidated Nature Preserve and turn it into a place for high-quality recreation opportunities for all residents no matter their ages or abilities.

Our team worked with the Park District to evaluate the former Master Plan and bring it to fruition. We coordinated with the Park District to provide new trails, trail mapping and a series of wayfinding signage and interpretive signage. Fehr Graham worked within the Park District's budget to develop plans for a bridge on the recreation trail, path connections and improvements, nature-based play, trail signage, a shelter house to accommodate 200 people, restrooms, picnic tables, grills, site utility improvements, a 100-stall parking lot and driveways. Everything was designed to be Americans with Disabilities Act compliant.

Providing access to the trail bridge was difficult because of the terrain and heavy vegetation. Our team worked with the property owner and neighbor to coordinate alternative construction and minimize impact to native trees. We worked with the Stephenson County Health Department on a solution to meet the Preserve's unique wastewater demands. The septic was inadequate, so we designed a system and field to accommodate large gatherings without damaging tree roots. Fehr Graham secured a $400,000 grant through the Illinois Department of Natural Resources Open Space Lands Acquisition and Development (OSLAD).

Fehr Graham focused on the Park District's five goals - restoring and maintaining the ecological integrity of Oakdale, achieving sustainable ecosystem health and biological diversity, reducing and eliminating unused facilities, providing educational opportunities and developing a unique venue to allow revenue to support and enhance the Preserve.

Tyler Nelson, PE

Senior Project Manager

Tyler Nelson is a seasoned professional with a career spanning more than two decades in civil engineering. He is experienced in municipal engineering, capital project planning, road design, sanitary sewer design, stormwater design, wastewater treatment, and construction management. Tyler is a strategic leader who manages a variety of design and construction projects.

EDUCATION

B.S. in Civil Engineering
Purdue University, 2003

M.P.A.
Purdue University Global, 2023

PROFESSIONAL LICENSE

Professional Engineer
Illinois #062-061714

CERTIFICATIONS

Documentation of Contract Quantities #21-18198, 2021
Nuclear Density Tester, 2018
Portland Cement Concrete – Level II Technician, 2013
Hot Mix Asphalt – Level I Technician, 2012
Portland Cement Concrete – Level I Technician, 2011
Mixture Aggregate Technician, 2010

PROFESSIONAL ASSOCIATIONS

National Society of Professional Engineers
Illinois Society of Professional Engineers

NEIGHBORHOOD PARK PARKING LOT

City of South Beloit, Illinois
Tyler serves as Project Manager for this parking lot expansion project.

RESIDENTIAL STREETS PROGRAM DESIGN

Village of Roscoe, Illinois
Tyler served as a Design Engineer for the City's annual MFT street resurfacing program.

2024 MOTOR FUEL TAX (MFT) STREET PROGRAM

City of South Beloit, Illinois
Tyler served as a Design Engineer for the City's annual MFT street resurfacing program.

EDGEBROOK PHASE IV WATER MAIN REPLACEMENT

City of Rockford, Illinois
Tyler served as the Design Engineer for this residential water main and lead service replacement project.

PRAIRIE STREET WATER MAIN AND SANITARY SEWER REPLACEMENT

City of St. Charles, Illinois
Tyler served as Project Manager to replace 2,500 feet of sanitary sewer main and 3,300 feet of water main within the City's right-of-way. He helped with all aspects of design and permitting and served as the client liaison during the construction of a high-traffic commercial corridor.

HAYES AVENUE SANITARY SEWER MAIN REPLACEMENT

City of South Beloit, Illinois
As Project Manager, Tyler led the replacement of 1,000 feet of sanitary sewer main and a full roadway reconstruction, including new curbs, sidewalks and pavement in a residential neighborhood. He managed all aspects of design, permitting and construction.

GENERAL MUNICIPAL ENGINEERING

- City of Rockford, Illinois
- City of South Beloit, Illinois
- City of St. Charles, Illinois
- Village of Winnebago, Illinois

CAPITAL IMPROVEMENT PROJECT PLANNING, BUDGETING AND PROGRAMMING*

- Four Rivers Sanitation Authority
- City of Rockford, Illinois

Mark Decker, PLA, ASLA

Landscape Architect

Mark Decker is a creative force behind projects that stand the test of time. He specializes in planning and designing conservation and recreation spaces and brings unique expertise to Fehr Graham. He excels in graphic communication and 3D modeling and rendering, where his designs transcend the ordinary. His background in ecology, natural resources and art is the foundation for his work, influencing and elevating projects.

Mark thrives on a diverse portfolio, including open space development, parks, green infrastructure, streambank stabilization, site planning, streetscapes, trail corridors and public plaza projects. What sets Mark apart is his passion for considering the environmental impact of design and his commitment to incorporating resilience into every solution.

EDUCATION

M.L.A. in Landscape Architecture
University of Illinois at Urbana-Champaign, 2007

B.A. in Biology
Trinity Christian College, Palos Heights, Illinois, 1999

PROFESSIONAL LICENSES

Professional Landscape Architect
Illinois #157.001331, 2009
Wisconsin #868-14, 2023

PROFESSIONAL ASSOCIATIONS

American Society of Landscape Architects
#1078767, 2005

United States Green Building Council

Sigma Lambda Alpha Honor Society

FAIRVIEW PARK FITNESS AND CHALLENGE COURSE

Decatur Park District | Decatur, Illinois
Mark worked with staff to develop plans for a destination playground, bike skills course and adult fitness area. The playground features a fitness challenge course and football-themed interactive play areas.

STONES LANDING PARK IMPROVEMENTS

Village of Machesney Park, Illinois
Mark prepared a concept development plan to expand a riverfront park along the Rock River. Using his plans, the Village was awarded grant funding from the Illinois Department of Natural Resources Open Space Lands Acquisition and Development (OSLAD) program to purchase properties within the proposed park. The proposed park includes an Americans with Disabilities Act-accessible fishing pier, open space restoration, an asphalt trail and a river overlook.

GARFIELD PARK IMPROVEMENTS

Decatur Park District | Decatur, Illinois
Mark helped prepare plans to redevelop Garfield Park. Mark led a community engagement effort to identify residents' needs and concerns and developed a concept plan to address the community's needs. Fehr Graham assisted the Park District with funding opportunities for park improvements. Based on Mark's plans, the playground was awarded funding as a PlayOn! National Demonstration Playground because it met the criteria for fitness-based playground design. The park improvements were submitted for grant award consideration in the Illinois Department of Natural Resources OSLAD program.

MILLENNIUM FOUNTAIN REDEVELOPMENT

City of Rockford, Illinois
Mark prepared a conceptual plan to redevelop a fountain along the Rock River into a splash pad to address maintenance issues. Mark worked closely with City and Rockford Park District staff and key donors to develop a concept plan to complement the adjacent Rockford City Market.

JOHNSON PARK IMPROVEMENTS

Byron Park District | Byron, Illinois
Mark worked with staff to prepare construction plans for a park along the Rock River. He worked with Fehr Graham structural engineers to design a fishing pier that could withstand flooding and ice while meeting accessibility guidelines.

Kent A. Henschen, PLA

Landscape Architect Project Manager

Kent Henschen enjoys designing and planning outdoor areas that improve communities. Kent participates in many landscape architecture projects and leads many through design and construction.

Kent works with clients on a range of projects, including athletic facilities, park and recreation areas, playgrounds, arboretums and botanical displays, campuses, waterfront developments, health care facilities, healing gardens, offices, professional complexes, commercial development, Leadership in Energy and Environment Design-certified facilities, environmental preservation and restoration, recreation trails and bicycle paths, residential developments and residences. Several of Kent's projects have won design excellence awards.

EDUCATION

B.S. in Landscape Architecture
Ohio State University, 1988

PROFESSIONAL LICENSE

Registered Landscape Architect
Illinois #157-000383

PROFESSIONAL ASSOCIATIONS

American Society of Landscape Architects, Member

Northern Illinois Botanical Society

Rockford Gateway Association

PARK AND OPEN SPACE MASTER PLAN

Village of Machesney Park, Illinois
A 6-mile stretch of riverfront residential properties were prone to flooding, so the Village adopted a program to buy properties within the flood zone to return to greenspace. To properly develop the area, the Village hired Fehr Graham to create a Master Plan. Kent analyzed the conditions and offered potential uses for the area. He developed a Master Plan based on community leaders' feedback.

ARBORETUM MASTER PLAN, SITE DEVELOPMENT, LANDSCAPE AND IRRIGATION PLAN

Quad Cities Botanical Center | Rock Island, Illinois
Kent developed a botanical display facility's plan on a former industrial site on the banks of the Mississippi River. Kent delivered an award-winning Master Plan that gave the Botanical Society a road map for site development. To start the process, the Society built a Conservatory with visitor parking and adjacent gardens. Kent designed the site, landscape and irrigation plans.

LANDSCAPE ARCHITECTURE OF NORTH 2ND STREET AND RIVER LANE INTERSECTION

City of Loves Park, Illinois

LANDSCAPE ARCHITECTURE PLANS FOR MEADOWLANDS SPLASH PARK

Dixon Park District | Dixon, Illinois

MASTER AND SITE DEVELOPMENT PLAN FOR SPORTSCORE TWO

Rockford Park District | Loves Park, Illinois

SITE DEVELOPMENT AND LANDSCAPE PLAN FOR PETERSEN VALLEY PARK

City of West Branch, Iowa

DECK RENOVATION PLAN FOR SPRING LAKE PARK

Flagg-Rochelle Park District | Rochelle, Illinois

SITE DEVELOPMENT AND LANDSCAPE PLAN FOR 10-ACRE PARK

Village of Davis Junction, Illinois

SITE DEVELOPMENT AND LANDSCAPE PLAN FOR NORTHEAST COMMUNITY PARK AND YMCA

Rockford Park District | Loves Park, Illinois

SITE DEVELOPMENT PLAN FOR TUTTY'S CROSSING PARK

Freeport Park District | Freeport, Illinois

Margaret Trowbridge

Staff Engineer

Margaret Trowbridge develops stormwater assessment plans and road improvements. She delivers effective solutions for a wide range of commercial, residential, and municipal engineering projects, addressing client needs and requirements. She brings extensive experience in water resources and Geographic Information Systems (GIS) to the team.

EDUCATION

B.S. in Engineering
University of Iowa, 2022

CERTIFICATIONS

Federal Emergency Management Agency Emergency Management Institute

Introduction to Incident Command System

Introduction to the National Incident Management System

NEIGHBORHOOD PARK PARKING LOT

City of South Beloit, Illinois
Margaret completed the design engineering for a parking lot and bus stop. Because the park is within the Illinois Department of Natural Resources-regulated floodway, a Joint Permit Application was required. Margaret created a proposed HEC-RAS model and Hydrologic and Hydraulic report and led the permitting process.

LAKE KAKUSHA EARTH DAM INSPECTION AND EMERGENCY ACTION PLAN

City of Mendota, Illinois
Margaret performed a dam reach assessment by calculating hydrologic and hydraulic parameters. She also created stormwater runoff, routing, dam stability and sedimentation models, assessed at-risk populations and hazards, and created an assessment report with maps.

FOX BEND GOLF COURSE CULVERT REPLACEMENTS

Oswegoland Park District | Oswego, Illinois

SOUTH AVON STREET DEVELOPMENT

Rockford Housing Development Corporation | Rockford, Illinois

GOLF COURSE SITE DESIGN

Glen Erin Golf Club | Janesville, Wisconsin

TRAFFIC ANALYSIS FOR NEW MONROE HIGH SCHOOL

Plunkett Raysich Architects | City of Monroe, Wisconsin

ILLINOIS ROUTE 72 MULTIUSE PATH PHASE I DESIGN SERVICES

Village of Pingree Grove, Illinois

MADISON STREET RECONSTRUCTION AND STREETSCAPE IMPROVEMENTS DESIGN

City of Rockford, Illinois

11TH STREET PHASE I WATER MAIN REPLACEMENT DESIGN

City of Rockford, Illinois

DRINKING WATER MODELING PROGRAM CREATION

Village of Pingree Grove, Illinois

WATER TOWER 4 SIZING

City of Loves Park, Illinois

Daniel Cáceres, PE, SE

Lead Structural Engineer

Daniel Cáceres leads a team of structural engineers tasked with producing plans, specifications and structural calculations. He has more than 20 years of experience in structural engineering and specializes in the construction and rehabilitation of structures. His work spans commercial and heavy industrial design using steel, concrete, wood and masonry. As Lead Structural Engineer, Dan ensures the quality of plans and specifications through quality assurance and control processes. Before Fehr Graham, he worked in the power industry, delivering design services for major projects across the United States.

EDUCATION

M.S. in Structural Engineering
Illinois Institute of Technology, 2011

B.S. in Civil Engineering
Marquette University, 2006

PROFESSIONAL LICENSES

Professional Engineer
Illinois, #062.062125
Iowa, #P28317
Missouri #2024003813
Ohio #92386
South Carolina, #39963
Wisconsin #100304-6

Structural Engineer
Illinois, #081.007646

PROFESSIONAL ASSOCIATIONS

American Public Works Association

American Society of Civil Engineers

CERTIFICATIONS

ASCE 2-Day Seminar

Deep Foundations: Design, Construction and Quality Control, 2019

Earth Retaining Structures: Design and Construction, 2018

Structural Condition Assessment of Existing Structures, 2015

FOX BEND GOLF COURSE BOX CULVERT REPLACEMENTS

Oswegoland Park District | Oswego, Illinois
As part of the Oswegoland Park District's 2025 Community Investment Program, our engineering firm provided construction engineering services for the replacement of two box culverts at Fox Bend Golf Course in Oswego, Illinois. The project addressed soil erosion, structural deterioration, and pavement cracking at the #9 Tee and #8 Green culvert bridges. Our team conducted shop drawing reviews, responded to contractor inquiries, attended construction meetings, performed part-time site observations, and delivered a final punch list to ensure project quality and compliance.

KRAPE PARK KOENIG AMPHITHEATER STRUCTURAL REPAIR ASSESSMENT

Freeport Park District | Freeport, Illinois
For the Freeport Park District, our engineering firm provided structural repair documentation for the Koenig Amphitheater at Krape Park, Freeport, Illinois, following a Spring 2024 structural assessment. The project involved preparing detailed repair drawings, bid documents, specifications, and a cost estimate for the amphitheater's structural rehabilitation. Our team also supported construction by reviewing shop drawings, processing pay applications, and conducting a final walkthrough to ensure quality and compliance.

FAIRVIEW PARK FITNESS AND CHALLENGE COURSE

Decatur Park District | Decatur, Illinois
Dan was the Lead Structural Engineer for the Decatur Park District. Our firm provided comprehensive design and construction engineering services for the Fairview Park Fitness and Challenge Course in Decatur, Illinois, supported by a $400,000 OSLAD grant. The project featured a topographic survey, geotechnical borings, and detailed site engineering, including a unique fitness course inspired by Decatur Staley's history, with football-themed amenities to enhance regional appeal. Our team prepared bid packages, managed permitting, and provided construction oversight to ensure compliance and quality throughout the project.

PARK SHELTER RETURN INSPECTIONS

Fox Valley Park District | Aurora, Illinois

FOX BEND GOLF COURSE SANITARY SERVICES DESIGN DRAWINGS

Oswegoland Park District | Oswego, Illinois

PARK SHELTERS CONDITION ASSESSMENT

Fox Valley Park District | Aurora, Illinois

Colton Johnson

Staff Engineer

Colton Johnson delivers multidisciplinary design services for commercial, industrial and municipal engineering projects, tailoring solutions to meet client needs. He is experienced in structural inspection, design and rehabilitation and prepares design plans and specifications for bridges, culverts and buildings. Colton works closely with municipalities and state and federal agencies to ensure safe, reliable infrastructure for public use.

EDUCATION

B.S. in Civil Engineering, Structural Emphasis
University of Wisconsin-Platteville, 2022

PROFESSIONAL LICENSE

Engineer in Training
Illinois #061-042071

ASSOCIATION

American Society of Civil Engineers

CERTIFICATION

National Highway Institute, FHWA-NHI Safety Inspection of In-Service Bridges, 2023

HANCOCK BRIDGE REHABILITATION

City of Freeport, Illinois
Colton served as Project Design Lead to rehabilitate the Hancock Avenue Bridge. The project included bridge deck replacement, substructure rehabilitation and roadway realignment. Colton coordinated with the Illinois Department of Transportation as the project used state funds and required design approval.

MAIN STREET PEDESTRIAN BRIDGE

Village of Roscoe, Illinois
Colton helped prepare structural plans and details for the Main Street Pedestrian Bridge over the South Kinnikinnick Creek. His responsibilities included designing the substructure and coordinating the pre-engineered superstructure with the manufacturer.

JEFFERSON STREET BRIDGE PARAPET REHABILITATION

City of Rockford, Illinois
Colton served as Project Design Lead to rehabilitate the Jefferson Street Bridge parapet wall. After the demolition of a nearby building created a gap in the wall, Colton worked closely with the City to design and integrate a parapet section that maintained the bridge's structural and aesthetic continuity.

DEMOLITION PLANNING FOR 227 NORTH WYMAN STREET

Rockford Public Library | Rockford, Illinois

STONE'S LANDING PARK IMPROVEMENTS

Village of Machesney Park, Illinois

WELL NO. 3 FLUORIDE ROOM BUILDOUT

City of Loves Park, Illinois

WELL NO. 8 TREATMENT FACILITY

City of Rochelle | Rochelle, Illinois

SANITARY SEWER RIVER CROSSING AND SCREENING BUILDING

City of Geneva Public Works Department | Geneva, Illinois

KOBEL'S RAMP IMPROVEMENTS

City of Byron, Illinois

WASTEWATER TREATMENT PLANT HEADWORKS

City of Oregon, Illinois

Jennifer B.A. Buholzer, PE

Project Engineer

Jennifer uses the Hydrologic Engineering Center's River Analysis System (HEC-RAS) model to complete detailed floodplain projects. She models floodplains and ensures proposed changes don't negatively affect surrounding landowners. She prepares and submits hydrologic and hydraulic studies to the Department of Natural Resources (DNR) and coordinates map changes through the Federal Emergency Management Agency. She is proficient in WaterCAD and WaterGEMS.

EDUCATION

B.S. in Civil Engineering
University of Minnesota, 2002

PROFESSIONAL LICENSES

Professional Engineer
Wisconsin #E-38754-6
Illinois #062-060148

PROFESSIONAL ASSOCIATIONS

Illinois Society of Professional Engineers
National Society of Professional Engineers
Wisconsin Section of the American Water Works Association Small Systems Committee
Wisconsin Water for the World Committee
Engineering and Construction Committee
American Water Works Association
Water Environment Federation
Central States Water Environment Association
Illinois Association for Floodplain and Stormwater Management

CITY INDUSTRIAL RAILROAD (CIR) EXPANSION

City of Rochelle, Illinois
The CIR expansion included two river crossings, requiring Jennifer to modify the City's Regional Flood Study. Because the City has a complicated drainage basin, she used an unsteady HEC-RAS model to complete the study. She also modeled the proposed structures and floodplain modifications to show they would not negatively affect nearby landowners.

TURTLE CREEK FLOOD STUDY AND CHANNEL IMPROVEMENTS

City of South Beloit, Illinois
Jennifer played a key role in reviewing HEC-RAS modeling from the Illinois State Water Survey (ISWS) for this study. She identified several incorrectly modeled areas and used topographic and Light Detection and Ranging data to create an accurate representation of the Turtle Creek floodplain. She updated the model in HEC-RAS and submitted it to the DNR and the ISWS for review and approval. Jennifer also led HEC-RAS modeling to explore additional improvements to help reduce flooding.

YELLOW CREEK FLOOD STUDY

First Illini Group Development | Freeport, Illinois

JOHN'S CREEK FLOOD STUDY

City of Rochelle, Illinois

DISCH ROAD BRIDGE REPLACEMENT

Green County Highway Department | Monroe, Wisconsin

WELDON ROAD PRELIMINARY BRIDGE DESIGN AND HYDRAULIC REPORT

Winnebago County Highway Department | Rockford, Illinois

SONARA TOWNSHIP PRELIMINARY BRIDGE DESIGN AND HYDRAULIC REPORT

Hancock County Highway Department | Carthage, Illinois

MAINTENANCE BUILDING AND OFFICES DETENTION POND DESIGN

Badger State Ethanol | Monroe, Wisconsin

WASTEWATER TREATMENT PLANT IMPROVEMENTS FLOOD MODELING

Village of Pearl City, Illinois

PEDERSON VALLEY PARK IMPROVEMENTS FLOOD MODELING

City of West Branch, Iowa

Methodology

Fehr Graham's approach to the Porter Park Phase II Expansion Project is client-focused, collaborative, efficient and quality-driven. As the prime consultant, we will:

- Work in close partnership with Village Representatives, community stakeholders and other professionals to ensure the park design aligns with the vision, requirements and regulatory guidelines.
- Use our understanding of project needs, our relationships with regulatory agencies and our experience with Open Space Lands Acquisition and Development (OSLAD)-funded projects to move the project forward.
- Provide results-driven solutions that deliver a final product reflecting the Village's vision and goals.
- Foster open, transparent communication among the Village, community, stakeholders and contractors.
- Apply civil engineering and landscape architecture principles grounded in environmental stewardship and economic responsibility, aligned with the Village staff and the community.

Fehr Graham developed a work plan that accounts for the major tasks outlined in the Request for Proposals. We built this plan on our experience designing and managing construction for similar projects.

Based on the RFP clarifications, we understand the Village intends to seek an extension on the OSLAD grant deadline. This will be important to the project's success because several design items will require coordination with permitting and regulatory authorities, including the Illinois Department of Natural Resources (IDNR), which often involves lengthy timelines.

Choosing Fehr Graham provides the advantage of delivering the full scope of services required to bring the project concept to life within one company.

Project Team

Tyler Nelson will serve as Project Manager. He will oversee the contract to ensure all deliverables meet quality standards and the schedule and budget are maintained. Tyler will represent the project team at meetings, serve as the primary point of contact and manage subconsultants. He will ensure the design and construction teams meet requirements developed during scope negotiations. These requirements will clearly define scope, budget, schedule, deliverables, criteria, team and quality assurance/quality control (QA/QC) procedures.

Fehr Graham's landscape architecture team, led by Mark Decker and Kent Henschen, will guide the park design. Both are registered Professional Landscape Architects with experience in park design, including several OSLAD-funded projects.

Our civil engineering and structural engineering teams will complete the site and pedestrian bridge designs. Our history of delivery in both disciplines will create additional synergy across the project team.

Fehr Graham's funding team, with deep knowledge of the OSLAD grant process, will be invaluable to the Village with all grant-reporting requirements.

Analysis and Due Diligence

- **Project Kickoff:** At the start of the project, we will facilitate a Kickoff Meeting at the Village. This meeting is to work with Village representatives, community stakeholders and other professionals to confirm the scope, deliverables and schedule and help us identify any site issues.

- **Site Development Requirements**: With extensive experience in site development work in the Roscoe area, Fehr Graham knows what it takes to turn a vision into reality. We have supported Porter Park's growth since 2015, including designing the proposed parking lot on this parcel. Our firsthand knowledge makes us the most prepared firm to complete the Phase II development design.

Phase 2 Design Development and Coordination

Following the Kickoff Meeting, we will collect and study plans and base data, including but not limited to:

- **Base data:** We will use GIS and the previous topographic survey data collected during the parking lot design project to supplement this Phase II design.
- **Topographic Survey:** We will perform a topographic survey of the remainder of the parcel to verify and locate data needed to develop the site.
- **Geotechnical Investigation:** A geotechnical subconsultant will complete one soil boring on each side of the stream in the approximate location of the proposed pedestrian bridge abutment. These borings will establish a subsurface soil profile for the bridge design.
- **Project Goals Development:** We will merge input from the Village staff and key stakeholders with the park concept plan to define issues, potential solutions, budgets and aesthetic vision.

With preliminary data and goals established, the detailed design will begin. Since the conceptual plan was prepared for the grant application, we will work within that layout and use the collected information to guide the detailed design. These design stages are itemized below.

- **Preliminary Design:** We will develop a Preliminary Design Plan that is approximately 50% complete and submit it for review. The Preliminary Design Plan will refine and update the commissioned concept plan with ideas, desires and goals grounded in the realities of any site restrictions and economic constraints, including the following components of the park plan:
    - Site Infrastructure: Overall site grading, stormwater management, site access, pedestrian path, and domestic water and sanitary sewer service to the park. Because much of the site lies in a floodway and floodplain, coordination and permitting with the requisite regulatory authorities (Illinois EPA, Illinois DNR, and USACE) will begin immediately upon project authorization.
    - Restroom Facility: We will design and permit a two-stall prefabricated restroom. While the RFP notes a septic system, those cannot be located in a floodplain or floodway. A Four Rivers Sanitation Authority (FRSA) sewer main on the site's western limits can provide service, requiring FRSA (not IEPA) permitting. Water service will be coordinated with the North Park Public Water District.
    - Disc Golf Course: We understand the layout of the five-hole expansion of the disc golf course has been designed by the local disc golf association, so the location will not change. We will coordinate with them to integrate the course into park plans.

- Pedestrian Bridge: We will confirm location, span, and type of pedestrian bridge during the preliminary design phase. Fehr Graham will coordinate with the Winnebago County Highway Department on the location of the Perryville Path extension to determine the most logical termini for a connection. Pedestrian path approach geometrics will be designed to seamlessly tie into the proposed bridge structure. Because of the floodways and floodplains on the parcel, immediate coordination with the Illinois DNR will be necessary. It is assumed the duration of the permitting approvals will be a minimum of six months. Hydraulic modeling will be completed to determine the proposed water levels that pass through the pedestrian bridge structure. This hydraulic data will be used to size the waterway opening. The bridge superstructure configuration and span(s) lengths will be selected to ensure the structure provides a sufficient waterway opening. It is assumed that this bridge will be prefabricated steel with wood decking and will simply be installed on cast-in-place bridge abutments. Should a different type of bridge be requested, a scope amendment may be required.
- National Fitness Campaign Fitness Court: We will use the equipment the Village has already procured and follow design guidance by the National Fitness Campaign to allocate space to the playground site, following all applicable requirements.
- Restoration of Native Areas and Landscaping: Our Professional Landscape Architects will select plantings that restore native pollinator and Monarch butterfly habitats. The design will be conducted to protect the natural wooded areas.

Design themes and conceptual layouts will be presented at this 50% milestone. With the Preliminary Design, we will develop a Preliminary Design Opinion of Probable Costs (OPC) to discuss priorities and options. All permitting that requires significant timeframes will be initiated during the preliminary phase. Upon approval to move forward, we will prepare 75% plans and contract documents and meet with the Village to review. At this time, all applicable permits will be initiated, and permits shall be completed before advertising the project for bid.

» **Final Design Development:** We will incorporate review comments and recommendations from the Preliminary Design plan submittal and advance the plans to the Final Design (100%) stage. We will also include the project implementation strategy, project construction timeline and cost opinion update. We will add construction details and outline specifications to document the technical and performance requirements on which the project will be completed. The Final Design submittal will consist of 100% complete plans. Final Design plans will be submitted to the Village for review and approval. Upon receiving final approval, Fehr Graham will finalize bid-ready construction documents and specifications.

Quality Fehr Graham's top priority, so plans and specifications will be prepared, peer-reviewed and scrutinized with thorough QA/QC procedures to confirm accuracy and quantities. A detailed and complete bid package will reduce potential conflicts during bidding and construction and is a key component to success. Our constructability review and QA/QC process will provide a fresh set of eyes to the project elements and ensure a smooth transition to bidding and construction.

Upon Village approval of the final plans and specifications, Fehr Graham will provide the Village with recommendations for park maintenance and ongoing care of the facilities to ensure their longevity and sustainability.

A major component of this project is funding from the Illinois Department of Natural Resources OSLAD grant. Fehr Graham has extensive experience facilitating and completing projects using this funding. We have also successfully applied for and administered OSLAD-funded projects for the Freeport Park District, Village of Davis Junction, Blackhawk Park District and Flagg-Rochelle Community Park District (to name a few). Our OSLAD project experience has included development projects and land acquisition.

- **Bidding Assistance**
  - **Pre-Bid Meeting:** Design team members will attend with prospective contractors to review plans and answer questions.
  - **Contractor Request for Information, Addenda and Clarifications:** Throughout the bid process, we will respond to questions and issue addenda as needed.
  - **Bid review and Recommendation:** After the bid opening, we will review bids with the Village, note any anomalies and provide a recommendation of bid award for the Village board's consideration.

- **Construction Services:** Fehr Graham's staff will oversee construction part time, ensuring all work is done in accordance with the plans and specifications. Construction observation hours are based on assumptions of 40 working days of construction and Fehr Graham personnel being on-site four hours per day which equates to 160 hours. A pre-construction meeting will be held before work begins.

  Contractor requests for information (assumed eight), change order requests (assumed four), pay applications (assumed four), and shop drawings (assumed approximately 10) will be reviewed for conformance with project specifications. Our funding team will review all change order and pay applications to ensure compliance with OSLAD requirements. Our funding personnel will also help coordinate the OSLAD grant disbursement process between the Illinois DNR and the Village when construction is complete. This grant closeout will include a site visit, submission of OSLAD grant paperwork and compiling any final punch list items.

We look forward to bringing this project to life for the Village of Roscoe through OSLAD funding secured by the Village. Porter Park is ready for its next phase, and we are eager to partner with the Village to meet and exceed expectations.

Schedule

SEPTEMBER 2025

- Selection and contract award.
- Project planning.
- Kickoff Meeting with stakeholders.

OCTOBER 2025

- Data gathering, survey, and project planning.
- Coordination with regulatory authorities.
- Request FEMA flood modeling files.
- Begin permitting processes.
- Commence preliminary design.

NOVEMBER 2025 – JUNE 2026

- Detailed design and hydraulic modeling.
- Receive permitting approvals. It is assumed that IDNR permitting could take a minimum of 6 months (recent permits have taken between 9-12 months) to gain approval from the time of submission of hydraulic report.
- Complete bid documents.
- Coordinate OSLAD grant program approval of final bid documents.

JULY 2026

- Bid letting, analysis and award.
- Begin construction.

AUGUST 2026 – NOVEMBER 2026

- Construction.
- Project completion.
- OSLAD grant closeout.

Team Capacity

With a team of 250 professionals, Fehr Graham has the resources and expertise to deliver exceptional services to the Village of Roscoe. The graphic below represents the capacity and availability of our proposed team members for the Porter Park Phase II Expansion Project.

Proposed Staff		
Team Member - Role	**Workload**	**Availability for Porter Park Phase II Expansion**
Tyler Nelson, PE – Senior Project Manager	75%	25%
Mark Decker, PLA – Project Manager	75%	25%
Kent Henschen, PLA – Landscape Architect	50%	50%
Margaret Trowbridge – Staff Engineer (Site Design)	25%	75%
Dan Caceres, PE, SE – Lead Structural Engineer	75%	25%
Colton Johnson – Staff Engineer (Structural Design)	25%	75%
Jennifer Buholzer, PE – Project Engineer (Hydraulic Analysis)	50%	50%

Cost Proposal and Estimate

Task 1 – Topographic Survey and Geotechnical Borings	$24,750
Task 2 – Pedestrian Bridge Design & Hydraulic Report	$55,400
Task 3 – Design Development and Coordination	$57,500
Task 5 – Bidding Assistance	$5,500
Task 6 – Construction Services	$44,800
Total Estimate for Tasks 1 through 6:	**$187,950**

Exclusions

The following items are **not** included in the scope of services:

- Geotechnical investigations and reporting beyond the locations of the proposed bridge abutments.
- Construction staking to be provided by the contractor
- Material testing services
- Subdivision plat
- Full-time construction observation and contract management
- Wetland delineation, permitting or mitigation
- Design of parking lot improvements. Considered not part of OSLAD project.
- Lighting design
- Irrigation design
- Traffic studies and report
- Private utility coordination other than water and electric service to proposed bathroom facilities.
- Utility relocation
- IDOT coordination for bridge plans as it is assumed that this bridge will be privately owned by the Village.
- Coordination of OSLAD grant extension (assumed requested by Village)
- OSLAD plan amendment coordination
- Structural design beyond the pedestrian bridge.
- Restroom building design. Assumed to be prefabricated by a selected vendor.
- Design and selection of National Fitness Campaign (Fitness Court) equipment (previously procured by Village)
- Private utility connection fees
- Ecological investigations
- Archaeological investigations
- Right of way/Easement creation or acquisition services
- Percolation testing for proposed septic system. Assumed septic system will not be used as septic systems cannot be placed in floodplain or floodway.

Any of the above services can be performed at an additional cost to the project upon request.

All costs are time and material estimates and are dependent upon project and task needs. Personnel chargeout rates and typical equipment and subcontracted service fees are provided on the following page for reference.

Fehr Graham accepts ACH payments, checks and wire transfers.

2025 Personnel Chargeout Rates

Principal	$234-294
Senior Project Manager	$197-287
Project Manager	$165-275

Engineering

Lead Engineer	$234-264
Senior Electrical Engineer	$234-264
Electrical Engineer	$191-211
Senior Project Engineer	$133-193
Project Engineer	$122-182
Project Designer	$112-182
Designer	$91-131
Engineer	$101-191
Senior Structural Engineer	$191-241
Senior Resident Engineer	$159-199
Resident Engineer	$122-172
Water/Wastewater Op Specialist	$133-173
Senior Engineering Technician	$101-181
Engineering Technician	$80-140

GIS Specialist	$101-111

Surveying

Land Surveyor	$154-204
Surveyor	$112-152
Survey Technician	$69-99

Environmental Health and Safety

Senior Project EHS Scientist	$144-184
EHS Project Scientist	$128-168
Senior EHS Scientist	$133-173
EHS Scientist	$101-131
EHS Specialist	$91-121
EHS Technician	$91-131
Senior Project Hydrogeologist	$144-184
Project Hydrogeologist	$122-162
Geologist	$91-101
Hydrogeologist	$101-141
Senior Biologist	$133-163
Biologist	$101-141

Sr. Grant Writer/Community Development Specialist	$117-137
Grant Writer/Community Development Specialist	$101-121
Project Coordinator	$80-130
Project Administrator	$80-130
Project Assistant	$94

Charges for expert testimony will be at a rate 1.5 times the standard hourly rate. Minimum 4 hours. Overtime hours charged at standard rates when Fehr Graham controls scheduling. Reimbursable Direct Expenses will be charged at invoice cost + 15%.

2025 Equipment Chargeout Schedule

	Sampling Equipment	Rate
A.	General Groundwater Sampling Equipment	$315/day
B.	General Soil Sampling Equipment	$150/day
C.	Submersible Pump (Includes Generator)	$104/day
D.	Battery Operated Submersible Purge Pump	$36/day
E.	Disposable Bailer	$15/each
F.	Mini-Troll Data Logger	$106/day
G.	Interface Probe	$51/day
H.	Environmental Field Vehicle	$50/day or $25/half day
I.	Solids Analysis Equipment	$50/sample
J.	Ground Penetrating Radar (GPR)	$350/day
	Biological Sampling Equipment	
A.	Boat and Trailer	$200/day
B.	Electrofishing Equipment	$200/day
C.	Macroinvertebrate Equipment	$50/day
D.	Petite Ponar	$50/day
E.	Secchi disk	$10/day
	Water Quality Sampling Equipment	
A.	Water Quality Equipment (beta, churn, sampler)	$30/day
B.	Velocity Meter with wading rod	$30/day
C.	Multiparameter sonde	$70/day
	Safety Equipment	
A.	Confined Space Entry Safety Equipment	$36/hour, 4-hour minimum
B.	Photo Ionization Detector (Mini-Rae)	$106/day
C.	Combustible and Oxygen Meter	$100/day
D.	First Aid/CPR Mannequins	$50/set
	Surveying and CAD Equipment	
A.	Total Station Equipment	$20/hour
B.	GPS Equipment	$20/hour
C.	CAD Equipment	$15/hour
D.	Per Day Use of Fully Equipped Survey Vehicle/Half-Day Usage	$68/day or $34/half day
E.	Leica Scanner	$30/hour
	Miscellaneous	
A.	Coliwasa Sampler	$25/each
B.	Field Filters	$30/each
C.	Monitoring Well Cap	$30/each
D.	Monitoring Well Locks	$20/each
E.	pH/Conductivity Meter(s)	$30/day
F.	Quest Noise Survey Meter/Dosimeter	$86/day
G.	Y S I D.O. Meter	$46/day
H.	ISCO Wastewater Sampler	$100/day
I.	ISCO Flow Meter	$100/day
J.	DOT Training Materials	$25/each participant
K.	Residual Chlorine Meter	$25/day
L.	Electronic Water Level Indicator	$30/day
M.	Cable Locator	$50/day
N.	ATV	$50/day
O.	Concrete Beam Mold/Breaker	$20/each
P.	AERMOD	$50/use

1. Reimbursable direct expenses will be charged at invoice cost + 15%.
2. Vehicle mileage (where applicable) $0.70 per mile.
3. Reproduction, postage and handling of plans for bidding and third-party use are direct expenses. (Blueprints $1/page.)