Design / Build
BURKE, L.L.C.

SUBMITTED TO:
VILLAGE OF ORLAND PARK
OFFICE OF THE VILLAGE CLERK
14700 SOUTH RAVINIA AVENUE
ORLAND PARK, IL 60462

SUBMITTED BY:
JAMES AMELIO, PE
BURKE, LLC
9575 WEST HIGGINS ROAD | SUITE 600
ROSEMONT, IL 60018
JAMELIO@CBBEL.COM

ORLAND PARK

OCTOBER 29, 2021

DESIGN/BUILD REQUEST FOR PROPOSALS #21-056

DOCTOR MARSH PARKING LOT AND NATURE TRAIL

Design / Build

BURKE, LLC
9575 W Higgins Road, Suite 600 Rosemont, Illinois 60018-4920 · Tel (847) 823-0500 · Fax (847) 823-0520

October 29, 2021

Office of the Village Clerk
Village of Orland Park
14700 South Ravinia Avenue
Orland Park, IL 60462

Attention: Mr. Patrick R. O'Sullivan, Village Clerk

Subject: **Design / Build**
Request for Proposals - #21-056
Doctor Marsh Parking Lot and Nature Trail

Dear Mr. O'Sullivan:

Burke LLC is pleased to submit this proposal to provide Design / Build Services for the Doctor Marsh Parking Lot and Nature Trail Project. The material presented is in accordance with the information requested in your RFP #21-056. We acknowledge receipt of Addendum 1.

The primary contact person for this submittal is James Amelio, PE. I will be available to answer any of your questions regarding this submittal and can be reached at jamelio@cbbel.com or on my cell at 847.652.1343. I will also serve at the Design Project Manager on this project.

The material provided in this submittal represents our ability and eagerness to perform the required services for the Village. We trust that it will demonstrate our understanding of the project and our expertise to perform the assignment. The CBBEL project team looks forward to working with the Village and is committed to completing the work to your satisfaction and within the required time schedule.

If you have any questions or need any additional information, please do not hesitate to contact me.

Sincerely,

James Amelio, PE
Principal

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TAB 1
COMPANY PROFILE

BURKE, L.L.C.
9575 West Higgins Road • Suite 600 • Rosemont, Illinois 60018-4920 • (847) 823-0500

WHY DESIGN/BUILD?

"In the course of doing business, it has become very apparent to me that our clients are often in need of alternate solutions for project delivery based on schedule and cost. Time and budget constraints are nothing new to the design and construction industry. Creative solutions to overcoming these constraints is the current challenge to the industry. This challenge has led to the creation of BURKE, LLC. Burke, LLC provides General Contracting and Construction Management services in the private and public sector of our industry. We provide full-service Design/Build services in cooperation with "The Burke Group" of Companies that total over 350 employees in seven locations. Design and Construction of Transportation, Structural, Mechanical, Electrical, and Environmental projects are all available through Burke, LLC. We are able to offer single-point control of projects from concept to ribbon cutting. We are very pleased to offer design/build services to our clients and look forward to the continued success we have experienced."

Christopher B. Burke, PhD, PE
Principal

DESIGN / BUILD
CONSTRUCTION MANAGEMENT
GENERAL CONTRACTING

Established in 2001, Burke, LLC is a limited liability corporation in the State of Illinois that has provided at-risk construction management services for municipal and private clients since our inception. Burke, LLC is part of The Burke Group (TBG) of companies and was created to provide our clients with a single point control of design and construction operations. A core group of senior professionals form the backbone of expertise needed for operations. We have drawn on the diverse skills of these exerts to provide turnkey delivery of the design and construction operations. Expertise includes surveying, civil, mechanical, traffic, electrical and construction engineering. Project delivery comes with a guaranteed maximum price and schedule that is identified early in the process. Cost overruns are the responsibility of the design builder, while savings are typically shared with the client.

2021

EarthWerks has a long history of performing public projects including detention ponds, compensatory ponds, wetland restoration, multi-use paths, parks and mitigation. Established in 1996, and Solely owned by Dan Davies with a capacity of total volume of work at $8.5 million per year in projects. We will provide all work for the Doctor Marsh Parking Lot and Nature Trail work from in-house with highly qualified employees at EarthWerks.

EarthWerks has an exceptional track record with projects and project completion. We have had NO suits, claims, or judgements against the Company.

We have invaluable experience working with Christopher B. Burke Engineering, Ltd, Burke, LLC and municipalities and understand what is expected from a contractor. Our project team and extensive fleet of equipment makes EarthWerks the perfect fit as the contractor to team with Burke, LLC for this Design/Build project with the Village of Orland Park.

Attached is a list of projects that will reflect our ability to complete the project. EarthWerks is extremely well versed in pedestrian structures as evidence by projects such as the LCRBC-Deep River project. Our Trail construction can be highlighted in the projects we completed for the Forest Preserve of DuPage County.

Our Project Team includes:

Dan Davies- owner- Skilled Operator	26 years
Joe Gillengerten-Superintendent	31 years
Steve Martens- Skilled Operator	21 years
Rogelio Mondragon-Landscape Foreman/Operator	22 years
Reynaldo Herrera- Rivera-Laborer	20 years
Fernando Rivera-Laborer	18 years
Joe Palmer-Truck Driver	9 years
Omar Alaniz-Laborer	21 years
Michael Baker-Layout/Drone Services	7 years
Kenneth Mondragon-Laborer	9 years
Scott Holdridge-Truck Driver/Laborer	12 years
Craig Greaves-Truck driver/skilled laborer	25 years

EarthWerks takes a deep look at each individual project and has developed unique techniques to accomplish the work that is presented with each contract sought and will work with Burke, LLC to design and construct a high-quality, cost-effective project.

TAB 2
SIMILAR PROJECT EXPERIENCE
FACT SHEETS
REFERENCES



SWAN POND PATH RECONSTRUCTION | RIVERSIDE, ILLINOIS

PROJECT TYPE

- Phase II Engineering
- Phase III Engineering
- Multi-Use Path
- Documentation

2021

PROJECT TEAM
Orion Galey, PE
Project Manager

Daniel Schroeder, PE
Project Engineer

Rebekkah Carney
Resident Engineer

CLIENT
Village of Riverside

CONSTRUCTION COST
$560 thousand

FEE
$51 thousand

FUNDING SOURCE
Local / DCEO

This project was in a floodplain, installation of a new multi-use path was necessary to replace the existing path that was eroded away due to river flooding. The path connects the southern side of the Village to the Central Business District and Metra train station.

The project included removal of the existing hot-mix asphalt 4-foot wide path along the Des Plaines River. The length of the new exposed aggregate surface concrete multi-use path is 1,950 feet and 10-feet wide. The path was installed with additional 12-inch thickened edges in areas where the river historically will flood to help ensure erosion and deterioration of the path does not occur. Limestone ledge rock was installed in four locations along the path to prevent erosion. Native forbs and native grasses were installed at each limestone ledge rock location in addition to landscape restoration along the path. Also included as part of the project scope was 8,400 square feet of sidewalk replacement program throughout various locations in the Village.

SERVICES INCLUDED:

- Project Design Including Preparation of Plans and Specs
- Permitting
- Bidding
- Shop Drawing and Mix Design Review
- Full-Time Construction Observation
- Coordination with Utility Companies
- Authorization and Pay Estimates
- Quality Assurance of Construction Materials (MSL),
- Record Drawings

Christopher B. Burke Engineering, Ltd. | 9575 W. Higgins Rd. | Ste. 600 | Rosemont, IL 60018 | T: 847.823.0500 | cbbel.com

SPORTS CORE IMPROVEMENTS | OAK BROOK, ILLINOIS

PROJECT TYPE

- Phase II Engineering
- Phase III Engineering
- Multi-Use Path
- Documentation

Aesthetic upgrades were constructed including stabilized circulation path, running track and soccer field.

This project consisted of tree removal, tree trimming, and tree pruning to clear the site. Overall site grading and athletic field fine grading were performed to bring the project area to the proposed plan elevations. Excavation and removal and disposal of unsuitable material were performed for installation of the running track and circulation path pavement structure. Aggregate base course was placed and then a decorative, stabilized granite aggregate installed for the running track and circulation path. Final landscaping included topsoil placement, custom seed mix placement, and erosion control blanket placement.

SERVICES INCLUDED:

- Project Design
- Permitting
- Full Time Construction Observation
- Field Measurements of Quantities
- Project Documentation as Outlined in IDOT's Construction Manual
- Preparation of Pay Estimates
- Coordination with and between Oak Brook and IDNR
- Coordination of Material Inspection

2021

PROJECT TEAM

Orion Galey, PE
Project Manager

Nicholas Morel, PE
Project Engineer

Scott Soderstrom, PE
Resident Engineer

CLIENT

Village of Oak Brook

CONSTRUCTION COST

$464 thousand

FEE

$67 thousand

FUNDING SOURCE

Local

HARGER ROAD BIKE PATH | OAK BROOK, ILLINOIS

PROJECT TYPE

- Phase I/II/III Engineering
- Pedestrian Improvement
- Multi-Use Path
- Bridge
- Utility Relocations

2019 - 2021

PROJECT TEAM

Orion Galey, PE
Project Manager – Phase II and III

Matthew Huffman, PE
Project Manager – Phase I

Mark Thomas, PE
Project Engineer

Christopher Faust, PE
Structural Engineer

Scott Soderstrom, PE
Resident Engineer

CLIENT

Village of Oak Brook

CONSTRUCTION COST

$2.35 million

FEE

$193.5 thousand

FUNDING SOURCE

CMAQ

This new multi-use path filled in a quarter mile gap in the multi-use path network along Harger Road, which crosses Salt Creek. The path includes a 140-foot bridge over Salt Creek with boardwalk on either side through the floodplain and low-lying areas.

The Harger Road multi-use path, which connects to York Woods Forest Preserve and the 25-mile long Salt Creek Greenway Trail, ends at the Yorkshire Woods Road intersection approximately 1,000-feet east of the creek. Through the engineering study, the Village determined that the most economical and feasible way to fill in this gap, is to construct a new shared-use path along the south side of Harger Road across Salt Creek and then go along the I-88 Tollway to Yorkshire Woods Road, which then connects to Harger Road and the existing multi-use path. The Village was able to secure a permanent easement from the Tollway for the new multi-use path to be placed on Tollway property, which is from Salt Creek east to the Yorkshire Woods Road dead-end. Filling in this gap will allow residents, nearby business employees and hotel patrons west of Salt Creek to access the Village's and regional shared-use path networks.

The scope of the improvement includes a new separate multi-use path, including a 140-foot bridge over Salt Creek with boardwalk on either side through the floodplain and low-lying areas, and transitions to an asphalt path. Utility relocations and drainage improvements are required, and a new water main will be installed alongside the multi-use path to create additional redundancy in the Village's water main network.

The Village was also successful in obtaining federal CMAQ funding for construction and construction engineering of the project at an 80/20 cost share. Construction is targeted for Spring 2021.

PHASE I SERVICES INCLUDED:

- Topographic survey, alternate route studies, development of horizontal and vertical geometry in accordance with AASHTO Bicycle Guidelines, preparation and design approval for a Local Project Development Report in accordance with IDOT/FHWA standards.

PHASE II SERVICES INCLUDED:

- Preparation of plans, specifications and estimates in accordance with IDOT BLR requirements.
- Preparation of plats of highway and legal descriptions for the partial acquisition of two parcels for the construction of the proposed path.
- Modifications to two traffic signals to include pedestrian signals.

PHASE III SERVICES INCLUDED:

- Full-time resident engineer to serve as Village's liaison with the contractor and IDOT, coordinate material inspection, document daily activities and measure and calculate quantities. Utilized IDOT CMMS for all contract documentation.

B

MCCD PRAIRIE PATH IMPROVEMENTS

Burke, LLC was retained by the Village of Algonquin to complete Design Build services for the construction of the McHenry County Conservation District (MCCD) trailhead, multi-use path, and LaFox River Drive Bridge. This portion of the path was straightened, a new rest area was created with a shade arbor and bicycle service station. A new trailhead sign was designed, as well as new landscaping, picnic areas and a digital information kiosk.

SCOPE OF SERVICES

- Project Design
- Bidding
- Permitting
- Cost Estimates
- Construction Management
- Construction Observation
- Project Closeout
- Record Drawings

2019-2020

PROJECT TEAM

Michael Kerr, PE
Principal-In-Charge

Design
Jason Souden, PE
Project Manager

Daniel O'Connell
Project Engineer

Majid Mobasseri, PHD, PE, SE
Structural Engineer

Douglas Gotham, LLA, ASLA
Landscape Architect

Construction
Orion Galey, PE
Project Manager

W. Daniel Crosson, PE
Resident Engineer

Jeffrey Mysliwiec, PE
Resident Engineer

CLIENT

Village of Algonquin

CONSTRUCTION COST

$2.3 Million

FEE

$300 Thousand

FUNDING SOURCE

Local

McHenry County
Conservation District

BURKE, LLC DESIGN/BUILD
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
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F: 847.823.0520
www.cbbel.com

B

FAIRWAY SUBDIVISION STAGES 1-4
DRAINAGE AND WATERMAIN IMPROVEMENTS

Burke, LLC was retained by the Village of Orland Park to complete the design and construction of the Fairway Subdivision Stages 1-4 Drainage and Watermain Improvements. Drainage improvements consisted of installing a large 60" diameter storm sewer conveyance system based on CBBEL's hydrologic and hydraulic model of the subdivision. In addition to the large sewer, smaller diameter sewers were installed to improve nuisance drainage within rear yards. Several of the rear yard sewers were rehabiiated with a liner.

Over the course of 4 stages, approximatly 25,000 LF of watermain in the subdivision was replaced with new 8" diameter watermain.

SCOPE OF SERVICES
Burke LLC Design/Build provided the following services:

- Project Design
- Permitting
- Easement Documents
- Cost Estimates
- Construction Management
- GMP and schedule delivery with shared savings

2017 - 2020

PROJECT TEAM
James Amelio, PE
Design Project Manager

Orion Galey, PE
Construction Project Manager

Razvan Calin
Resident Engineer

SUBCONSULTANT
Christopher B. Burke
Engineering, Ltd. (CBBEL)

CLIENT
Village of Orland Park

CONSTRUCTION COST
$13 million

FUNDING SOURCE
Local

BURKE, LLC DESIGN/BUILD
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
T: 847.823.0500
F: 847.823.0520
www.cbbel.com

108TH AVENUE BIKE TRAIL | ORLAND PARK, ILLINOIS

PROJECT TYPE

- Phase I Engineering
- Phase II Engineering
- Phase III Engineering
- Bike Path
- Topographic Survey
- ADA Improvements

2016 - 2017

PROJECT TEAM
Jason Souden, PE
Project Manager

Mark Thomas, PE
Project Engineer

Kelly Gibbons, PE
Resident Engineer

CLIENT
Village of Orland Park

CONSTRUCTION COST
$185 thousand

FEE
$70 thousand

FUNDING SOURCE
CMAQ / TAP

This project replaced an existing 5' concrete sidewalk with an 8' wide multi-use path to connect two existing paths within the Village of Orland Park's planned path network.

The multi-use path connects existing paths at Jillian Road on the south and 153rd Street on the north. 108th Avenue is Cook County right-of-way; coordination was required with Cook County Department of Transportation and Highways. Wetland impacts were mitigated via County wetland banks.

PHASE I SERVICES INCLUDED:

- Topographic Survey
- Preliminary Geometrics
- Wetland Delineation
- Coordination with Cook County
- FHWA/IDOT Coordination Meeting
- Preparation of Project Development Report

PHASE II SERVICES INCLUDED:

- Detailed Plans, Specifications and Cost Estimates
- Property acquisition from adjacent property owner
- Enhanced crossing at Jillian Road
- Cook County Highway permit
- USACE permit

PHASE III SERVICES INCLUDED:

- Documentation
- Construction Observation
- Coordination with Village, Cook County, Contractor and IDOT

Christopher B. Burke Engineering, Ltd. | 9575 W. Higgins Rd. | Ste. 600 | Rosemont, IL 60018 | T: 847.823.0500 | cbbel.com

REFERENCES

VILLAGE OF ALGONQUIN

2200 Harnish Drive
Algonquin, IL 60102

Contact: Bob Mitchard, Public Works Director
bobmitchard@algonquin.org | 847.658.2700

VILLAGE OF OAK BROOK

1200 Oak Brook Road
Oak Brook, IL 60523

Contact: Rick Valent, Director of Public Works
rvalent@oak-brook.org | 630.368.5272

VILLAGE OF RIVERSIDE

27 Riverside Road
Riverside, IL 60546

Contact: Dan Tabb, Public Works Director & ADA Coordinator
dtabb@riverside.il.us | 708.442.3590

Supplemental Reference of Project Team:

CITY OF ELMHURST

209 N. York Street
Elmhurst, IL 60126

Contact: Kent Johnson, City Engineer
kent.johnson@elmhurst.org | 630.530.3024

Similar Project Experience

County of DuPage	**Timber Ridge Trail**
421 N. County Farm Rd	Contract: $879,300
Wheaton, IL 60187	Completion: 4/12
Jamie Lock	630-407-6676

Village of Oak Brook	**Sports Core Improvements**
1200 Oak Brook Road	Contract: 344,425.00
Oak Brook, IL 60523	Completion: 7/21
Rick Valent	630-368-5272

City of Elmhurst	**College View Stormwater Improvements**
209 N. York Street	Contract: $4,208,331.34
Elmhurst, IL 60126	Completion: 10/15/21
Kent Johnson	630-530-3000

Little Calumet River Basin Commission	**Deep River Improvements**
900 Ridge Rd	Contract: $4,432,915.00
Munster, IN 46321	Est Completion: 7/21
Karl Wilson, PE, RE	847-636-4456

TAB 3
PROJECT TEAM
ORGANIZATIONAL CHART
RESUMES

ORGANIZATIONAL CHART
DOCTOR MARSH PARKING LOT AND NATURE TRAIL
RFP #21-056

ORLAND PARK

DESIGN

DESIGN PROJECT MANAGER
James Amelio, PE

PROJECT ENGINEER
Bryan Luke, PE

QC / QA
Travis Parry, PE, CFM

BIO-ENGINEERING/ ENVIRONMENTAL PERMITTING
Jedd Anderson, PWS, CPESC
Tom McArdle, CWS, CPESC

STRUCTURAL DESIGN
Majid Mobasseri, PhD, PE, SE

HYDRAULIC PERMITTING
Darren Olson, PE, CFM
Michael Burke, PE, CFM

SURVEYING
John Murphy, PE, PLS

CONSTRUCTION

CONSTRUCTION PROJECT MANAGER
Orion Galey, PE

RESIDENT ENGINEER
Kelly Gibbons, PE

CONTRACTOR
EarthWerks Land Improvement & Development

- Burke LLC Employee
- CBBEL Employee
- EarthWerks

James Amelio, PE

Senior Project Manager

YEARS EXPERIENCE: 18
YEARS WITH CBBEL: 18

EDUCATION
Bachelor of Science, 2003
Civil Engineering
University of Illinois at Urbana-Champaign

PROFESSIONAL REGISTRATION
Professional Engineer, IL, 062.060779, 2008

CERTIFICATIONS
Documentation of Contract Quantities, IDOT, 16-12215

ICORS Training Seminar, IDOT

Material Management of Job Sites, IDOT

PROFESSIONAL DEVELOPMENT
IDOT QC/QA Courses:

Mixture Aggregate Technician Course

Portland Cement Concrete Level 1

Hot Mix Asphalt Level 1

Bituminous Concrete Density Tester Course

Professional Civil Engineer experienced in design and construction engineering. Civil Design experience includes roadway and streetscape design, storm and sanitary sewer design, water distribution design, and the preparation of State and Municipal plans, specifications and estimates. Construction Engineering experience includes on-site construction observation, project coordination, scheduling, and documentation of quantities, coordination and/or verification of materials testing and inspection, preparation of change orders, review of contractor pay requests, coordination of as-built drawing preparation, and finalization of contracts. Proficient in documentation for various types of funding including FAU, STP, LAPP, MFT, MWRD, DCEO, ERP, EECBG and CDBG grants. James also serves as Village Engineer and main point-of-contact for the municipalities of Forest Park and Lincolnwood.

Software Experience: Microsoft Project/Word/Excel/Access, ICORS, MicroStation, Geopak

Village Engineer, Lincolnwood (2014-present): Currently oversees all municipal engineering responsibilities and serves as Village Engineer. Regularly works with the Village in a variety of capacities including administration and design of municipal programs and projects, coordination of development reviews and construction inspections, and attendance at Village Board meetings as well as staff meetings.

Village Engineer, Forest Park (2003-present): Currently oversees all municipal engineering responsibilities and serves as Village Engineer. Regularly works with the Village in a variety of capacities including administration and design of municipal programs and projects, coordination of development reviews and construction inspections, and attendance at Village Board meetings as well as staff meetings.

MUNICIPAL

Annual Capital Projects, Forest Park: Responsible for the programming, design and oversight of the Village's annual capital projects. Projects consist of: Water Main Replacement Project, 50/50 Sidewalk Program, Alley Reconstruction Program, Pavement Marking Program, CDBG Program, and various FAU, ERP, MFT and locally funded resurfacing projects.

Annual Capital Projects, Lincolnwood: Responsible for the programming, design and oversight of the Village's annual capital projects. Projects consist of: Water Main Replacement and Resurfacing Projects.

10-Year Plan, Lincolnwood: Project Manager responsible for data collection and rating of existing roadway, water main and alley infrastructure in order to create a 10-year plan for the Village's future public improvements projects.

Forest Park Annual Alley Improvements, Forest Park: Project Manager responsible for design and construction oversight of the annual alley program. To date, over 100 alleys have been reconstructed with an inverted crown, storm sewer, and drainage structures.

Village Improvement Program Stages 1 & 2, Forest Park: Construction Manager/Resident Engineer for roadway, alley and water main improvements. An infrastructure assessment identified areas most in need of repair and compared project delivery alternatives. Stage 1 included water main replacement and sewer spot repair improvements for 8 streets and 19 alleys. Stage 2 included sewer spot improvements and curb repairs for 7 streets and 24 alleys. Pavement upgrades included brick street reconstruction and asphalt resurfacing and all areas were made ADA compliant. Alleys were reconstructed with new driveways and storm sewers. Traffic calming measures were installed at two intersections to reduce vehicle speeds, improve safety, and enhance quality of life. Improvements also included benches, ornamental lighting, and decorative landscaping.

Jackson Boulevard and Harvard Street Reconstruction, Forest Park: Resident Engineer for this federally funded streetscape reconstruction project which included traffic calming bump outs, pedestrian lighting, landscaping enhancements, sewer point repairs, upgrading the water main, and pavement reconstruction.

Brown Street TIF, Forest Park: Project Manager responsible for design, bid, and construction management services. Project included traffic calming bump outs, pedestrian lighting, landscaping enhancements, sewer point repairs, upgrading water main, roadway resurfacing, alley reconstruction, and installation of a ROAM lighting system.

Randolph, Ferdinand and Beloit Parking Lots, Forest Park: Project Manager responsible for design, bid, and resident engineering services. Project consisted constructing 3 parking lots including storm sewer, pavement, electrical, and signage.

Union Pacific Railroad Parking Lot, Lincolnwood: Project Manager responsible for design and construction oversight of a new 120 stall parking lot within the former Union Pacific Railroad ROW. Project involved stormwater detention, volume control measures and special waste management.

Pratt Avenue Resurfacing, Lincolnwood: Project Manager responsible for design engineering services. Project consisted of 2 miles of roadway resurfacing and received FAU funding.

Fairway Stages 1, 2, 3 & 4 Water Main Replacement, Orland Park: Project Manager for construction of the Fairway Stages 1, 2, 3 & 4 Drainage and Water Main Improvements. Project involved the construction of approximately 25,000 LF of new 8-inch ductile iron water main throughout the Fairway neighborhood, including new water services, valves, and fire hydrants. Also included in this project were miscellaneous drainage improvements, including installation of rear yard drainage structures which were tied into the existing storm sewer system.

Fairway Stages 1 & 2 Roadway Improvements, Orland Park: Project Manager for full depth reconstruction of nearly 40,000 square yards of roadway. Project also included curb and gutter and sidewalk removal and replacement (as necessary), storm sewer improvements, and ADA sidewalk ramps. Duties included coordination with contractor, Village staff, and residents, project scheduling, material submittals, contract administration, processing of pay estimates, and project closeout.

Salt Storage Facility, West Chicago: Project Manager responsible for design, bidding and construction management services. Project consisted of constructing a salt barn, associated parking lot and utilities.

Tollway Access Road (TAR) Removal, Conway Park Owners Association, Lake Forest: Project Manager responsible for design, bid, and construction management services. Project consisted of removal of an existing roadway and mass grading to build a berm.

Commuter Parking Lot, Oak Forest: Resident Engineer of new 480 space parking lot. This $2M project consisted of new lighting, reconstruction of adjacent roads, pedestrian walkway and pay box/ shelter. Coordinated 3 separate contracts and subcontractors on a tight schedule. Completed on time and under budget.

LAPP Project, Oak Lawn: Performed pavement condition ratings and recommended streets for LAPP project. Assisted in completing IDOT forms and contracts. Designed and Bid project.

163rd and Gougar Traffic Signal, Lockport: Project Manager responsible for design, bid and construction management services. Project included signalization of a stop controlled intersection along with intersection pavement improvements.

CTA Blue Line Parking Lot Rehabilitation, Forest Park: Project Manger responsible for the grant coordination, design and construction management of the parking lot. Project consisted of resurfacing and ADA sidewalk improvements.

STREETSCAPES

Devon Avenue Streetscape, Lincolnwood: Project Manager responsible for design. Project consists of 0.33 mile of improvements including pedestrian pavement, roadway/pedestrian lighting, ADA route improvements, site furnishings, and general enhancements to the aesthetics of 6 blocks. Received FAU funding and coordination will be required with IDOT and CDOT.

Madison Street Streetscape, Forest Park: Project Manager for preparation of design plans for 0.25 mile of roadway reconstruction and streetscape. Improvements included pavement removal and replacement, curb and gutter removal and replacement, sidewalk removal and replacement, drainage improvements, replacement of water main, roadway lighting, and landscape medians. Coordination was required with River Forest as the north side of Madison St borders River Forest. Construction of the $3M improvement received FAU funding.

Roosevelt Road Streetscape, Forest Park: Project Manager responsible for design. This State funded project consisted of 0.75 mile of roadway resurfacing and streetscape. Improvements consisted of ornamental street lighting, parkway enhancements, site furniture, landscaping, bump outs, and medians. Opportunity for bike lanes or paths were also investigated.

Summit Avenue and Prospect Avenue Streetscape, Park Ridge: Resident Engineer. This ITEP funded project consisted of improvements along Prospect Ave and Summit Ave; a continuation of recent adjacent streetscape improvements. Specific elements included: curb and gutter, sidewalks, brick pavers, raised planter boxes, a concrete planter wall, site furniture, ornamental lighting, irrigation system, landscaping, trees, precast modular retaining wall, ornamental fence, specialty paved crosswalk, and roadway resurfacing.

FLOOD CONTROL AND FLOOD IMPROVEMENT

Saylor/Swain/Vallette Stormwater Improvements, Elmhurst: Project Manager responsible for design and construction management of 7.27 ac-ft of stormwater improvements comprised of a 6.15 ac-ft storm trap and a 1.12 ac-ft box culvert. ***Awarded the APWA Chicago Metro Chapter (Suburban Branch) Public Works Project of the Year in the Environmental Category less than $5 M.***

Circle Avenue Sewer Separation, Forest Park: Project Manager responsible for the successful grant application (MWRD Stormwater), design and construction management of the Circle Avenue Sewer Separation project. The project consisted of new 60" diameter storm sewer, new sanitary sewer, CIPP lining of existing combination sewer, new 20"/ 12"/6" water main, and pavement resurfacing. Coordination with utilities and negotiation and acquisition of a permanent easement from the United States Postal Service.

Street Storage Program Stages 1 & 2, Lincolnwood: Project Manager responsible for design which consisted of constructing roadway and driveway berms in conjunction with sewer restrictions to alleviate basement backups within a combined sewer area.

North Shore Channel Storm Sewer Outfall, Lincolnwood: Project Manager responsible for successful MWRD funding application, design and construction oversight. Project consisted of installing a 60" diameter sewer outfall into the north shore channel and tributary sewer network.

Forest Park Sewer Separation Evaluation: Project Manager overseeing the hydrologic and hydraulic analysis of 3 study areas consisting of 325 acres, 275 acres, and 80 acres. The existing Village drains through a hybrid of combined sewers and separate sewers. Responsibilities include supervising hydrologic and hydraulic analysis of existing drainage system, analysis of multiple alternatives for each of the 3 areas to mitigate street and basement flooding by draining separate sewers to Des Plaines River. Alternatives include potential converting existing large diameter combined interceptors to separate storm sewers. Responsibilities also include cost analysis of proposed improvements, preparation of presentation to Village Board.

Maycliff Subdivision Drainage and Water Main Improvements, Orland Park: Project Manager responsible for design and construction oversight of flood control project for a 290-acre watershed which consisted of installing a large (60") diameter sewer trunk line and associated connections to provide additional storm water protection. The water main within the entire subdivision was lined.

Bryan Luke, PE

Senior Project Manager

YEARS EXPERIENCE: 25
YEARS WITH CBBEL: 17

EDUCATION
Bachelor of Science, 1996
Civil Engineering
University of Illinois at Urbana-Champaign

PROFESSIONAL REGISTRATION
Professional Engineer, IL, 062.054957, 2001

PROFESSIONAL DEVELOPMENT
Seminars Presented:
Trees as Infrastructure (Morton Arboretum/IDOT)

ADA in the Public ROW (CBBEL)

PROFESSIONAL AFFILIATIONS
American Society of Civil Engineers IL Section: Communications Chair (Past), Board Director (Past), Transportation Group Chair (Past)

American Council of Engineering Companies IL Section – Environmental Committee (2014-2016)

Pullman National Park Technical Committee Member Positioning Pullman (2015)

Senior Project Manager experienced in civil engineering. Responsible for the development of various highway, streetscape, wetland and bikeway projects. Duties include preparation of construction plans, specifications and permits, site planning, agency coordination, and construction cost estimates. Experienced in Phase I design, Phase II design and Construction Oversight.

Software experience includes: MicroStation, Geopak, AutoTurn, Microsoft Word/Excel/Project.

MUNICIPALITIES

Du-Comm Emergency Facility (Phase II, III), Winfield: Project Engineer responsible for supervising preparation of concepts, design plans, specifications, cost estimates, and other contract documents for this project. Improvements included designs for floodproofing berm, pump station, wetland creation, riparian restoration, woodland restoration, parking lot expansion, new parking lot, DuDOT shared use path, and site work for the largest consolidated public safety communications center in Illinois. The design project contract was amended to design/build to accelerate schedule to accommodate emergency service response needs, with additional construction services provided. Coordination with multiple DuPage County Agencies, Building Architect, utilities, and Village was required.

Salt Barn Facility (Phase I, II – Design/Build), West Chicago: Project Manager responsible for supervising preparation of wetland delineations, design plans, specifications, cost estimates, permits, and other contract documents for this project. Improvements included concept designs for 7-ton salt barn (including barn expansion, facilities lot, and detention basins) and future public works building (including lot and detention basins) on the Village's Water Treatment Facility's property. Preferred concept was developed into Pre-Final/Permit Plans. Improvements included wetland buffer enhancements, existing basin enhancements, 7-ton Salt Barn with concrete walls/foundations, lighting, security fence/gates, pavement patching, ADA sidewalk, water main/service, and 1-acre facilities lot with closed drainage system to BMP basin. The design project contract was amended to design/build to accelerate schedule to accommodate impeding winter salt storage needs and reduce owner oversight needs. Coordination with DuPage County, utilities, City Building Department, and abutting buildings was required.

Levee 37: Burning Bush Basin/Ballfields and Sewer (Phase I, II, III), Mount Prospect: Project Manager responsible for supervising preparation of design plans, specifications, cost estimates, permits, and other contract documents for this MWRD funded project. Improvements within Village's roadway included new large diameter storm sewer, junction chambers, sidewalk replacement, ADA ramps and crosswalks, trees and other landscape items, and pavement reconstruction/patching/resurfacing. Improvements within Park District property included creating a 6' deep tiered segmental block wall storm water storage basin providing over 13 ac-ft of storage and two baseball fields/one soccer field. Other basin improvements include stairs, ADA ramp, railings, stadium seating segmental block walls, sidewalk, baseball fields/backstops/benches/fencing, irrigation, drainage system, shared use path restoration, ball-field turf, and trees. Coordination with utilities, Park District, MWRD, and abutting Park District project was included.

Marvin Parkway Flood Control (Phase II), Park Ridge: Project Manager responsible for supervising preparation of design plans, specifications, cost estimates, permits, and other contract documents for this MWRD funded project. Improvements included new underground storage tank system in existing park, new 8" water main, sidewalk replacement, ADA ramps and crosswalks, trees and other landscape items, driveway reconstruction, curb/gutter replacement, pavement reconstruction/patching/resurfacing. This project is one component of City's plan to reduce flooding impacts on community.

Circle Ave Sewer Separation, 16th St to Roosevelt Rd (Phase II), River Forest: Project Manager responsible for supervising preparation of design plans, specifications, cost estimates, permits, and other contract documents for this MWRD funded project. Improvements included new large diameter storm sewer, new sanitary sewer, lining combination sewer, new 20"/12"/6" water main, water/sanitary service adjustments, sidewalk replacement, ADA ramps and crosswalks, trees and other landscape items, driveway reconstruction, pavement reconstruction/patching/resurfacing. Coordination with utilities, USPS (storm outfall is on their property), and adjacent Public Works Facility was included.

Plum Grove Road Reconstruction, Golf Road to Wiley Road (Phase II), Schaumburg: Project Manager responsible for supervising preparation of design plans, specifications, cost estimates, and other contract documents. Plum Grove Road underwent a "road diet" from a 4-lane cross section to a 3-lane cross section with single lane roundabouts at the intersections with Remington Rd and with State Pkwy. Existing shared use path on the west side of Plum Grove Rd was reconstructed, along with sidewalks, driveways and crosswalks, bringing the corridor up to ADA standards. Water main and sanitary improvements, new lighting and aesthetic landscaping were included.

Terrace View Pond (Phase II), Lombard: Project Manager responsible for supervising the preparation of design plans, specifications, cost estimates, permits, land acquisition, and other contract documents. Improvements included installation of a lift station at pond's outlet, 8' diameter intake structures with check valves, storm sewer backfilled with lightweight fill, temporary coffer dams, grass-pavement drive for maintenance access to lift station controls, shoreline wetland restoration, dual relief sewers (under new shared use path) to allow the roadway storm sewer system to drain into Terrace View Pond, trail restoration, and landscape restoration. The lift station allowed the normal water elevation to be lowered by one foot, resulting in an additional 13 acre-feet of stormwater storage. Project challenges included very poor soil conditions and tight access. Coordination included permitting from DuPage County, survey and plat preparation, utility coordination, and Key Stakeholder coordination.

Vista Pond (Phase II), Lombard: Project Manager responsible for supervising the preparation of design plans, specifications, cost estimates, permits, and other contract documents. Improvements included staged excavation (to work in the dry), boulder-toe slopes, inlet pipe reconstruction, articulated concrete revetment mat, native seeding of shoreline, trail restoration, and landscape restoration. The 19,400 cubic yards of excavation resulted in an additional 6.5 acre-feet of stormwater storage. Coordination included USACE letter of no objection, utility coordination, and Key Stakeholder coordination.

Main Street Bike Lanes (Phase II), Skokie: Project Manager responsible for design plans, specifications, cost estimates, permits, documents and other contract documents for the construction of 2.5 miles of 5' wide one- way bike lanes on Main St between Lincoln Ave and McCormick Blvd. Other improvements included milling & resurfacing of segments of the roadway, signage and bike rack installation. Coordination of this federally funded project included CCHD and IDOT. Bike lanes included green pavement markings within conflict zones.

Old Orchard Road Shared Use Path (Phase II), Skokie: Project Manager responsible for supervising the preparation of design plans, specifications, cost estimates, permits, land acquisition documents and other contract documents for the construction of 0.8 miles of 10' wide shared use path in the south parkway of Old Orchard Rd from Skokie Blvd to Gross Point Rd. Improvements included bus stop/bike rack sidewalk, signage, segmental block retaining walls, fencing, bike racks, and landscape restoration. Permits were obtained from CCHD with additional coordination of this federally funded project with IDOT and utilities.

Addison Creek Stream Restoration (Phase II), Northlake: Project Engineer responsible for supervising the preparation of design plans, specifications, cost estimates, permits and other contract documents for the re-meandering and widening of over 3250' of the creek resulting in much lower flood elevations and improved stormwater quality. The stabilization included bioengineering techniques such as gabions, boulder-toe slopes, riffles/ pools, pilot channel gravel bed, and regrading/revegetation. Improvements included removal of 2 dams, shared use path restoration, exercise trail/equipment installation, trees/shrubs, temporary coffer dams, temporary bypass pumping, and signage. The 25,000 CY of channel bank/islands excavated spoil was used in the adjacent open space to create space for 3 soccer fields, completing the 26 acre improvement. Coordination with MWRD, USACE, Soil Conservation District, utilities, and other stakeholders.

Salt Creek Streambank Stabilization, Section IV (Phase II), Rolling Meadows: Project Manager responsible for supervising the preparation of design plans, specifications, cost estimates, permits and other contract documents for the stabilization of over 3000'. The stabilization included bioengineering techniques such as stabilization with boulder-toe slopes and regrading/revegetation. Provided documentation and public education to meet the requirements of the IEPA funding grant.

Madison Street Streetscape, Harlem Ave to Austin Blvd (Phase I, II), Oak Park: Project Manager. Section I included providing conceptual level plans, traffic analysis and cost estimates for 3 ultimate options to remake Madison St into a vibrant, safer, complete street. The 1.5 mile corridor from Harlem Ave to Ashland Ave spans the entire Village and is one of the major east-west corridors. The preferred design consisted of a road diet of the corridor. Bike lanes and a center turn lane were added to the western third. The middle third removed medians to provide a consistent center turn lane and providing protected bike lanes (between parkway curb and floating parking lane). The eastern third maintained planted medians and gained buffered bike lanes. Other improvement included traffic signal equipment/timing upgrades (with vehicle and bike loop detectors), green bike lanes, new ADA corners, curb/gutter repair, sidewalk repair, pavement replacement/resurfacing, signage and landscape restoration. Phase II included permits, design plans, specifications, cost estimates, and other contract documents. Public involvement was a key element throughout the design (three adjacent schools, Village Hall, Police Station, businesses, and residences were included as key-stakeholders), as well as IDOT Permits for the two north-south intersections under IDOT jurisdiction.

Traffic Calming Master Plan: Jackson Blvd, Madison St, and Washington Blvd, Oak Park: Project Manager. CBBEL collected traffic data and public input, then analyzed the many traffic calming tools in our toolbox. The appropriate traffic calming alternatives based on the unique issues of each street were presented. The report ranks the alternatives and provides a concept level cost analysis for each option. The preferred option will be engineered to a 50% design level, to be included in future Village improvements.

US Route 14 (Miner St) Streetscape, Graceland to Pearson (Phase I, II, III), Des Plaines: Project Manager responsible for supervising the preparation of design plans, specifications, cost estimates, and other contract documents for streetscape improvement to Miner St and the adjacent side streets. Improvements included new sidewalk, clay paver and granite sidewalk, ADA ramps and crosswalks, trees in grates, trees in raised planters and other landscape items with electrical receptacles and irrigation, driveway reconstruction, pavement patching, milling & resurfacing of the roadways, and a Gateway Element Structure. Other improvements included new parking lot and bus drop off area, median with planter, new clay paver and granite sidewalk plaza at City Hall and traffic signal maintenance. Work was done via IDOT permit, coordination with Metra for work on their property and pedestrian crossing improvements, utility companies and Key Stakeholders.

Wolf Rd/153rd St Bike Path (Phase II), Orland Park: Project Manager responsible for design plans, specifications, cost estimates, permits, land acquisition documents and other contract documents for the construction of 0.7 miles of bike path on 153rd St from Wolf Rd (IL Rte 7) to 108th Ave and on Wolf Rd from 153rd St north for 900'. Other improvements included traffic signal improvements, segments of closed drainage system, sidewalk, segmental block retaining walls, railings, and landscape restoration. Permits were obtained from CCHD and IDOT, as well as additional coordination with utilities.

Travis Parry, PE, CFM, CPMSM, CPSWQ

Water Resources Project Manager

YEARS EXPERIENCE: 21
YEARS WITH CBBEL: 20

EDUCATION
Master of Science, 2001
Civil Engineering
Southern Illinois University

Bachelor of Science, 1999
Civil Engineering
Southern Illinois University

PROFESSIONAL REGISTRATION
Professional Engineer, IL,
062.065596, 2013

CERTIFICATIONS
Certified Floodplain Manager,
IAFSM

Certified Professional in
Municipal Stormwater Mgt.,
EnviroCert International, Inc.

Certified Professional
in Stormwater Quality,
EnviroCert International, Inc.

PUBLICATIONS
"Reservoir Management for Flood Control Using Simulated Annealing", Proceedings of the 2002 Conference of the Environmental and Water Resources Institute, ASCE. T. Parry and J. Nicklow, Roanoke, VA, May 19-22, 2002.

"Application of Simulated Annealing for Optimal Flood Control in Multi-Reservoir River Networks", Master's Thesis, Southern Illinois University. Carbondale, IL 2001.

PROFESSIONAL AFFILIATIONS
American Society of
Civil Engineers
Environmental Engineering
and Water Resource
(EE&WR) Technical Group

Illinois Association for
Floodplain and
Stormwater Management

Water Resources Project Manager responsible for water resources engineering studies and proposals that include floodplain/floodway delineation studies and permitting, stormwater management studies and permitting, flood control project feasibility and design studies, engineering review services and all phases of the National Pollution Discharge Elimination System-Phase II (NPDES-Phase II) permitting, and engineering review.

Computer modeling skills include: HEC-RAS, HEC-HMS, WSP-2, XP-SWMM, TR-20, TR-55, FLDWAV, DAMBRK, DWOPER, HEC-1, HEC-2, Hydra-flow, WMS, and HY-8.

Illicit Discharge Detection and Elimination Program, Hanover Park: Project Manager/Engineer responsible for all aspects. Developed an Illicit Discharge Detection and Elimination (IDDE) program to meet the requirements of the NPDES. General NPDES Permit for Discharges from Small Separate Storm Sewer Systems. The IDDE program development consisted of inspection of all outfalls located in the Cook County portion of the Village for physical indicators of pollution, sampling and testing of potential contaminants, preparation of policies and procedures for identifying, tracing and eliminating illicit discharges, and a comprehensive final report.

Midas Automotive Illicit Discharge, Glendale Heights: Project Manager/Engineer responsible for all aspects. Assisted the Village with managing, monitoring, and coordinating the efforts required to maintain compliance with the Village's General NPDES Permit following the illicit discharge of contaminants to the Village's Municipal Separate Storm Sewer System (MS4) from the Midas Automotive facility. On-site activities included assistance with tracing procedures, inspection of the automotive facility and impacted areas including storm sewers, open channels, and detention basins, monitoring of environmental contractor and meetings with the IEPA and other stakeholders. Other activities included extensive coordination and preparation of a comprehensive final report of the incident.

Park Ridge Flood Study: Project Manager responsible for management of stormwater studies, hydraulic and hydrologic modeling, public presentations, and conceptual design of proposed drainage improvement projects. The City experienced severe, citywide flooding as a result of the September 2008 storm event. The 6 most impacted areas were identified, the flooding causes determined and drainage improvements developed to reduce the risk of future flooding events. The results of the flood study, along with conceptual level exhibits and cost estimates, were summarized, prioritized and presented to the City Council. IDNR-OWR Dam Safety Permitting and Design.

Grasslands Regional Flood Control Facility, Orland Park: Project Engineer responsible for the hydraulic and hydrologic modeling and calculations necessary to meet IDNR-OWR Dam Safety permitting requirements. The modeling included HEC-1 dam beach analysis and HEC-RAS floodwave routing. The Grasslands Flood Control Facility was designed to accommodate the detention required for future development of nearly 50 acres of farmland and provide 100-year level flood protection for downstream residential development that has been subjected to severe flooding on several occasions.

NPDES-Phase II: Provided comprehensive development of the NOI and Yearly Reports necessary for more than 15 governmental clients to remain in compliance with NPDES Phase II requirements. Services included coordination with staff to determine current activities applicable towards the NPDES Phase II requirements, ordinance review for compliance with NPDES Phase II standards, provided technical assistance in determining appropriate BMP's for implementation and subsequent attainable measurable goals, assisted with development of procedures for reporting, tracking and investigating illicit discharges, developed maintenance and inspection forms for documentation of routine inspections and maintenance activities, development of storm sewer atlas, preparation of educational materials to be distributed to the public, participated in countywide Qualifying Local Program meetings and input sessions, and developed comprehensive Stormwater Management Program Plans (SMPP) tailored to each MS4's NPDES program.

Doctor Marsh Wetland Complex, Orland Park: Project Manager responsible for the development of stormwater management and wetland enhancement applications. Proposed improvements include wetland and upland restoration, wildlife enhancements, and filling portions of a man made channel. The Doctor Marsh is an existing wetland complex that has been degraded by channelization of Spring Creek and an abundance of invasive species. The Village is developing an intensive and comprehensive plan to restore the area with native vegetation and provide habitat to wildlife, as well as allow access to their residents through a series of paths and other amenities that will tie into the Village's overall path system.

Benet Athletic Complex, Benet Academy, Lisle: Project Manager responsible for stormwater management analysis and local permitting requirements for development of a 10-acre agricultural site into an athletic field complex. Proposed deign included the use of a porous asphalt parking lot to meet local BMP and detention requirements. Seeking to expand both its parking and athletic practice facilities, Benet Academy purchased and developed a 10-acre parcel just east of the main campus. The development consisted of multiple sporting venues including soccer and softball fields, tennis courts, a parking lot and detention facilities.

Windsor Drive Storm Sewer Improvements, Orland Park: Developed and calibrated an XP-SWMM hydrologic and hydraulic model for a 230-acre watershed that experienced severe flooding in summer of 2003. The model was calibrated to observe watermarks and the design storm event was based on historical rain data. Using the model, several flood control alternatives were evaluated and a stormwater conveyance system was designed to provide an increased level of protection for residents in the Windsor Drive area.

Westwood Drive Storm Sewer Improvements, Orland Park: Developed and calibrated an XP-SWMM hydrologic and hydraulic model for a 220-acre watershed that experienced severe flooding in summer of 2003. The model was calibrated to observe watermarks and the design storm event was based on historical rain data. Using the model, several flood control alternatives were evaluated and a stormwater conveyance system was designed to provide an increased level of protection for residents in the Westwood Drive area.

Old Orland Storm Sewer Improvements, Orland Park: Developed and calibrated an XP-SWMM hydrologic and hydraulic model for a 30-acre watershed that experienced severe flooding in summer of 2003. The model was calibrated to observe watermarks and the design storm event was based on historical rain data. Using the model, several flood control alternatives were evaluated and a stormwater conveyance system was designed to provide an increased level of protection for residents in the Old Orland area.

Maycliff Storm Sewer Improvements, Orland Park: Developed and calibrated an XP-SWMM hydrologic and hydraulic model for a 290-acre watershed that experienced severe flooding in summer of 2003. The model was calibrated to observe watermarks and the design storm event was based on historical rain data. Using the model, several flood control alternatives were evaluated and a stormwater conveyance system was designed to provide an increased level of protection for residents in the Maycliff area.

Flood Risk Reduction Assessment, Orland Park: Performed a flood risk reduction assessment as a result of severe flooding that occurred in July 2003. The study determined the extent of the flood damage through site visits to the impacted areas and close interaction with residents. Based on the findings, possible causes for the flooding and potential solutions to reduce the risk of future flooding were developed and provided along with conceptual cost estimates. Provided recommended changes to their Village Code, Land Development Code, and engineering review procedures to reduce the risk of future flooding throughout the Village.

Grasslands Detention Basin, Orland Park: Performed a stormwater detention analysis using TR-20 hydrologic model for a future development to provide stormwater management and flood control for Grasslands Subdivision that experienced severe flooding in July 2003 as a result of undetained off-site stormwater. Design of the off-site detention basin incorporated the future development of 47 acres of off-site property and a reduced release rate to provide additional downstream protection.

Plymouth Place, LaGrange Park: Performed a stormwater detention analysis for a 19-acre redevelopment based on requirements of MWRDGC. The design increased the amount of on-site detention to provide additional downstream protection and significantly reduced the amount of stormwater runoff draining to the Village's combined sewer system.

Ashford Court Storm Sewer Improvements, Orland Park: Developed a Hydra-flow model to evaluate flood control alternatives based on historical rain data for the 30-acre watershed. The alternatives analyzed allowed a stormwater conveyance system to be designed to reduce the risk of future flooding in the Ashford Court area.

Creekside Storm Sewer Improvements, Orland Park: Developed a Hydra-flow model to evaluate flood control alternatives based on historical rain data for the 30-acre watershed. The alternatives analyzed allowed a stormwater conveyance system to be designed to reduce the risk of future flooding in the Creekside Storm Sewer Improvement area.

Lynnsway Subdivision, Cedar Lake, IN: Performed a stormwater detention analysis for 110-acre residential development based on the Stormwater Management Ordinance of the Town of Cedar Lake. The analysis used the TR-20 hydrologic model to design and size the proposed detention basins. The design also included an off-site tributary analysis and an HY-8 analysis for the proposed culvert crossing.

Shorewood Road Reconstruction, Grayslake: Performed Phase I and Phase II stormwater management analysis and storm sewer design for reconstruction of Shorewood Rd based on the Lake County Watershed Development Ordinance. Project included non-riverine floodplain and significant amounts of wetland areas. Modeling for the analysis included TR-20 and Hydra-flow.

Schaumburg Road Channel Enclosure, Schaumburg: Performed a preliminary stormwater analysis using a HEC-1 hydrologic model to design and size a storm sewer system capable of conveying the design storm of the pre-existing channel after enclosure without impacting upstream properties.

Stearns Road Corridor, Kane County: Performed a preliminary stormwater detention analysis using the TR-20 hydrologic model to design and size the proposed detention basins.

Brewster Creek Wetland Restoration, DuPage County: Performed a HEC-HMS hydrologic and HEC-RAS hydraulic analysis, as well as existing and proposed hydroperiod analysis, for the 55-acre wetland restoration project in support of DuPage County Stormwater Management Permit.

The Reserve Subdivision, Elgin: Performed the stormwater management analysis and compensatory storage design for the 44-acre development containing significant wetland and floodplain areas based on the existing and proposed TR-20 hydrologic and HEC-RAS hydraulic models. The analysis was prepared and submitted in support of a DuPage County Stormwater Management Permit.

Volo Residential Development: Performed a complete hydrologic and hydraulic analysis for the 167-acre residential development that contained significant amounts of depressional storage and wetland areas, as well as large off-site flows and Zone A Floodplain. The analysis included TR-20 and HEC-RAS modeling in support of a Lake County Watershed Development Permit.

The Morton Arboretum Stormwater Management Permits: Assisted with preparation of wetland, riparian, stormwater and floodplain submittals for DuPage County Stormwater Management Permits for projects within The Morton Arboretum. These projects included the Arbor Court and Maze Garden and P-19 Parking Lot Expansion.

Village of Orland Park: As a consultant to the Director of Engineering, reviewed stormwater submittals of selected projects for compliance with the Village Land Development Code.

Village of Willowbrook: As a consultant to the Village, reviewed stormwater submittals of selected projects for compliance with the Village Ordinance and the DuPage County Countywide Stormwater and Floodplain Ordinance.

Lake County Surveyor's Office, IN: As a consultant to the LCSO, reviewed permit applications for compliance with the Stormwater Management and Sediment Control Ordinance.

Majid Mobasseri, PhD, PE, SE

Head, Structural Engineering Department

YEARS EXPERIENCE: 37
YEARS WITH CBBEL: 15

EDUCATION

Doctor of Philosophy, 1986
Structural Engineering
University of Texas at Austin

Master of Science, 1981
Structural Engineering
Washington State University

Bachelor of Science, 1978
Structural Engineering
Arya-Mehr Univ., Tehran, Iran

PROFESSIONAL REGISTRATION

Structural Engineer, IL, 081.005058, 1993

Structural Engineer, MA, 35841, 1990

Professional Engineer, IL, 062.047793, 1992

Professional Engineer, IN, PE10101277, 2001

CERTIFICATIONS

IDOT Approved Bridge Program Manager, ID: 00302; National Bridge Inspection Standards (NBIS) Qualified

PROFESSIONAL AFFILIATIONS

American Concrete Institute

American Railway Engineering and Maintenance-of-Way Association (AREMA)

American Society of Civil Engineers

Earthquake Engineers Research Institute

Head of Structural Engineering responsible for the study, design, and generation of construction contract documents for structural systems employed in buildings, industrial facilities and bridges serving highway traffic. Experience includes planning and concept design, bridge type/size/location studies, structural inspections, structural ratings, rehabilitation and renovation studies, final designs and the production of plans, specifications and estimates, and construction inspection. IDOT Approved Bridge Program Manager for 13 municipalities.

I-294 over Irving Park Road Widening, Tollway: Structural Project Manager responsible for the preparation of Phase II design plans, specifications, and cost estimates. This was part of the Tollway Central Tri-State widening project. The existing structure is a single span simply supported structure measuring 81'-6" from the center of bearing to the center of bearing. The existing superstructure consists of a 7.5" reinforced concrete deck supported on 48" precast prestressed concrete I-beams. The substructure consists of highwall cantilever abutments founded on metal shell piles. The structure will be widened approximately 18'-3" to the east giving an overall structure width of 104'-8". The proposed widening consists of an 8" reinforced concrete deck on IL36N precast prestressed concrete beams. The abutments will be widened in kind. The remainder of the existing bridge deck was reconstructed by others in 2018. The bridge is on a straight horizontal alignment and is in seismic performance zone 1. CBBEL worked closely with the Tollway, Schiller Park, other consultants on the team, and IDOT during design. The estimated construction cost is $1.15 million.

I-294 Widening, Various Retaining Walls and Noise Walls, Tollway: Structural Project Manager responsible for the preparation of Phase II design plans, specifications, and cost estimates for new retaining walls and noise walls along I-294. This was part of the Tollway Central Tri-State widening project. Due to adding lanes along I-294, several retaining walls and noise walls were required to support the roadway embankment and reduce traffic noise. The existing retaining walls were partially removed, and the noise walls were completely removed. The proposed TS38.25R- NB® retaining wall is an 85'-0" long soldier pile retaining wall with cast in place concrete facing. The wall supports a 16'-0" wide moments slab and a crash worthy parapet wall supporting a structure mounted noise abatement wall. The noise abatement wall will be performance based and designed by others. The wall and moment slab are on a straight horizontal alignment. The proposed TS38.35R SB(R) – is a combination of a 377'-7" moment slab to be placed on the existing wall. Continuing at the end of the existing wall is a 675'-4" proposed soldier pile retaining wall with cast in place concrete facing. The wall supports a 12'-0" wide moments slab and crash worthy parapet. The soldier piles will be placed inside 36" diameter drilled shaft caissons. The wall and moment slab are on a straight horizontal alignment. The estimated construction cost is $2.52 million.

Main Street Bridge Over Crystal Lake Overflow, Algonquin: Structural Project Manager responsible for the preparation of Phase II design plans, specifications, and cost estimate for replacing the existing bridge with new bridge and retaining walls. The proposed structure is comprised of two straight 30' span 17" prestressed concrete deck beams with a 5" concrete wearing surface. The substructure is cast in place concrete abutments supported on 30" diameter drilled shafts. The center support is a multi-column pier with web wall supported by 48" drilled shaft foundations. The bridge is 61' long from back of abutment to back of abutment and 60' wide out to out. There are two 12' lanes for traffic and two sidewalks, one 22'-8" wide and one 13'-4" wide. There are three 24' long wingwalls at the NW, SW, and SE corners. Additional superstructure items include decorative railings with architectural pilasters, pergola above the sidewalk sections, and a decorative illuminated archway. Estimated Construction Cost is $2.48 million.

Upper Wacker Drive, CDOT: Structural Project Manager responsible for the preparation of Phase II design plans, specifications, and cost estimate for extending upper Wacker Drive two spans toward east to provide access to the new Wanda Vista Hotel. The existing lower Wacker Drive consists of a continuous 48" steel plate girders supported on structural steel support bents. The bridge was extended approximately 111' to the east (one 50' span and one 61' span) to provide access to the new Wanda Vista Hotel. The new deck will be landscaped with large trees, and traffic lanes will be provided to access the hotel. The proposed structure was designed to support construction material for the hotel construction. The extension required the replacement of two easternmost existing upper spans of reinforced concrete deck (approximately 175' of deck), repairs to the existing steel bents, the addition of two new bents and the installation of micro piles to strengthen the existing foundations. The new superstructure extension consisted of 36x135 wide flange steel beams. Modifications to two steel bents included the installation of new plate girder columns and beams. The structure is approximately 129' wide. The bridge is straight; however, the southernmost beam flares slightly. The bridge is in seismic performance zone 1. The bridge was designed in 2015 and 2016. Construction was performed in 2016 and 2017. The estimated construction cost was $4.6 million.

Balmoral Avenue Underpass, IDOT: Structural Project Manager responsible for the preparation of design plans for construction of a new underpass on new alignment. The underpass will carry traffic from SB Mannheim Rd (US 45) to Balmoral Ave. The project required extensive coordination with FAA as the underpass is located within the flight pattern of two runways that serve O'Hare Airport. Structural improvements included the construction of two new steel plate girder bridges (117' - single span) to carry Mannheim Rd over the underpass, approximately 300' of cantilevered soldier pile retaining walls, approx. 300' of tied back soldier pile retaining walls and approx. 375' of cantilevered concrete retaining walls. The retaining walls varied in height, with a maximum retained height of approx. 20'. The construction cost for this project was $13.5 million.

Balmoral Avenue over I-294, Rosemont: Structural Project Manager. Project consisted of Phase II engineering and development of contract documents for construction of a NB exit ramp from I-294 to Balmoral Ave, reconstruction of the SB entrance ramp and widening of the Balmoral Bridge over I-294. The existing structure was a two span bridge with 102' and 119' spans. The superstructure consisted of an 82'-0" deck supported on eleven 63" Bulb T-Beams. The proposed deck is 94'-7" providing five 12'-0" traffic lanes, a 16'-0" median and a 6'-7" sidewalk. The existing deck was partially removed and widened with three new beams. The substructure members were widened in kind and new retaining walls were constructed in front of the existing ones. This project is part of a larger series of improvements to Balmoral Ave to improve regional access to the Rosemont Convention Center area and O'Hare International Airport. Phase I investigated an ultimate extension of Balmoral Ave west to Bessie Coleman Drive on airport grounds, as well as the impact of future improvements by the Tollway at the major divergence of I-294 and I-190/I-90.

King Arthur Court Bridge over Addison Creek, Northlake: Structural Project Manager responsible for Phase II and Engineering with Phase III assistance for the complete superstructure replacement of the King Arthur Court Bridge. The new structure consisted of two 37' span 17" prestressed concrete deck beams with a 5" concrete wearing surface. The existing substructure was reconstructed to adjust the new road profile and the parapets replaced with a new form liner textured surface and bridge fence railing. Also included was, additional roadway and sidewalk improvements along with channel excavation and rip rap installation in the channel beneath the structure. Since the bridge is the sole entryway into the subdivision, the bridge was completed in two stages with traffic control allowing access at all times.

LeMoyne Street over Addison Creek, Northlake: Structural Project Manager responsible for Phase II Engineering and Phase III assistance for the complete superstructure replacement of the LeMoyne Street Bridge. The existing superstructure was in critical condition and required a 5 ton load posting and the closure of the north half of the structure. The new superstructure consists of a single 56' span 27" prestressed precast concrete deck beams with and HMA wearing surface and waterproofing membrane. Responsibilities included the preparation of design plans, specifications and estimates, completion of a load rating analysis, shop drawing review, responding to requests for information and initial inspection of the new superstructure. The project was completed in 2021.

Barker Avenue Bridge over Salt Creek Superstructure Replacement, Rolling Meadows: Structural Project Engineer. Project included complete superstructure demolition, precast prestressed box beam replacement, concrete wearing surface with sidewalks, form liner stone relief parapets and wingwalls, hand railings, guardrail installation, and landscape restoration. Duties included shop drawing review, coordination with local agency for full road closures, observation and coordination of contractor operations and scheduling QA testing, materials inspection documentation, documentation of quantities using ICORS, preparation of change orders, authorizations, and pay estimates using ICORS.

Edgewood Drive Reconstruction (IL Route 31 to Hanson Road), Algonquin: Structural Project Manager responsible for preparation of design plans and cost estimates for replacement of Edgewood Dr bridge superstructure over Ratt Creek, the replacement of an existing culvert at Ratt Creek Tributary and installation of approx. 500' of cantilevered concrete retaining walls. Per the BCR prepared by CBBEL, the existing Edgewood Dr bridge superstructure was demolished and replaced with new W24 steel beams (32' single span). The existing triple 84" diameter CMP culverts at Ratt Creek Tributary were removed and replaced with a 12' x 8' precast concrete box culvert with cast-in-place wingwalls and headwalls. In addition, 500' of cantilevered concrete retaining walls with a decorative architectural finish were constructed to accommodate profile changes.

IL Route 53 West and East Frontage Roads, Rolling Meadows: Project Manager responsible for overseeing the design, developing construction plans, coordination with project architect, and QA/QC. The project consisted of the replacement of the existing bridge decks and complete substructure repairs as needed on IL Route 53 West and East Frontage Roads. CBBEL performed in depth field inspection and prepared BCRs for both structures. The BCRs revealed that the existing beams were in good condition and only deck slabs should be replaced. The NW wingwall of the abutment failed and was replaced. CBBEL completed the final plans and construction documents. Upon completion of the project the bridges were jurisdictionally transferred from IDOT to the City.

Mainline Roadway Widening & Reconstruction of Northbound Tri-State Tollway: Project Manager responsible for overseeing the design, developing construction plans, coordination with Lorig Construction, and QA/QC. CBBEL was responsible for developing design plans and specifications of retaining walls. Tollway was adding a lane of traffic and a shoulder to northbound of I-294 from north of Touhy Ave up to Dempster St and there was not enough ROW to support the roadway embankment widening. Therefore the only option to support the new roadway lane and shoulder was retaining walls. The scope included developing design plans and details for 5 different retaining walls with moment slab and parapet or coping along the project limits.

Timber Edge Drive Bridge over Salt Creek, Oakbrook Terrace: Structural Engineer responsible for overseeing the structural design. The proposed bridge is a 156' long, three span continuous composite wide flange stringer superstructure supported on solid web piers and integral abutments. The overall deck width is 35'-2", which provides two 12' lanes, two 4' shoulders and two F-shaped concrete parapets. Responsibilities include design of the bridge superstructure and substructure, preparation of cost estimates, special provisions and structural steel shop drawing review.

33rd Street Viaduct over I-90/94, Chicago: Structural Project Manager. Completed shop drawing review for the removal and replacement of the existing seven-span bridge with five continuous steel spans and two simply supported concrete T beams and replacement with galvanized composite steel beams, substructure repairs, full replacement of two piers caps and partial replacement of four others, building new approach slabs, milling and resurfacing of the approach roadway, traffic signal modernization, and deck and underpass lighting.

Jedd Anderson, PWS, CWS, CPESC

Vice President

YEARS EXPERIENCE: 32
YEARS WITH CBBEL: 32

EDUCATION
Bachelor of Arts, 1985
Geology
Augustana College

CERTIFICATIONS
Professional Wetland Scientist
Society of Wetland Scientists

Certified Professional in Erosion and Sediment Control

Certified Wetland Specialist, Lake County

Certified Wetland Specialist, McHenry County

Designated Erosion Control Inspector (DECI), Lake County

Qualified Wetland Specialist, Kane County

PUBLICATIONS
Pine Dunes Wetland Mitigation Area, Land and Water Magazine, May/June 2016

The Unique Components of the West Branch Wetland Restoration Area, DuPage County, Watershed Management, ASCE 2011

St. Charles Wetland Mitigation Bank, Land and Water Magazine, Jan/Feb 1995

AWARDS
2016 Engineering Excellence Awards-ACEC Illinois, Honor Award Winner, Pine Dunes Wetland Mitigation Area

Certificate of Appreciation, St. Charles Wetland Mitigation Bank, June 1994

Hendren Geology Scholarship, Augustana College

Mr. Anderson has extensive Environmental Resources experience managing more than 8,000 environmental projects and obtaining more than 2,000 USACE Section 404 permits. He has over 30 years of practice in assisting in review of design, permitting and monitoring projects and their impact on wetland and natural areas. Responsibilities include coordination and completion of wetland and natural area assessments, delineations, design, permitting, maintenance and monitoring, as well as resolution of USACE/USEPA enforcement actions. In addition, performs mitigation design and development and technical tasks associated with civil and water resources engineering and geological analysis in Illinois, Indiana and Wisconsin. Also responsible for coordination with clients on implementation of and compliance with NPDES Regulations.

Jedd is a veteran in the design and installation of sediment and erosion control. Completes hydro-geomorphologic studies to assist in stream restoration and remeandering. Well versed in soil bioengineering techniques for streambank stabilization and provides environmental, wetland, sediment, and erosion control. Has expertise in NEPA, Endangered Species Act, and biological assessments for threatened and endangered species. Clients include governmental agencies, municipalities, forest preserve districts, park districts & school districts, as well as private enterprises. Responsible for review of projects for compliance with Villages of Kildeer and Riverwoods Ordinances. Also, currently provides wetland consultation services for Addison, Algonquin, Bannockburn, Bensenville, Bloomingdale, Carol Stream, Crystal Lake, Downers Grove, Hawthorn Woods, Huntley, Kildeer, Lake Barrington, Long Grove, Riverwoods, Willowbrook, Wood Dale, Woodridge, and DuPage County.

MWRDGC - Wetland Specialist Services Upon Request: Project Manager for Wetland Specialist Services Upon Request Contracts. Since 2015 Jedd Anderson has been a Wetland Review Consultant for MWRDGC (District). Services include review of development applications for compliance with WMO regulations, as well as professional opinion and review upon request on related regulations and various District projects. Work includes wetland and/or riparian environment delineation verification in the field and desktop review. Written comments and recommendations are prepared for the District in memo format to forward on to the applicant.

IDOT - Various Environmental Services Upon Request: Project Manager for Two Various Environmental Services Upon Request Contracts. Projects include Coordination of Special Waste Reviews, Review of wetland delineations and preparation of wetland delineations, tree surveys, threatened and endangered species reviews, completion of wetland maintenance and monitoring, providing architectural historian assistance and noise analysis reviews for various roadway projects.

O'Hare International Airport Modernization Program: Lead Wetland Consultant for preparation and submittal of Section 404 Permit Application encompassing more than 154 acres of wetland impact within the 8,000 acre O'Hare International Airport, as well prepared the DuPage County Wetland Submittal. Coordinated more than 440 acres of wetland mitigation for the replacement of the lost wetland areas. Lead consultant on the design of wetland mitigation required for the wetland impacts occurring in the DuPage County portion of the airport.

Zion Nuclear Generating Station Decommissioning, Zion Solutions, Zion: The Zion Nuclear power plant was decommissioned, demolished, and removed. Over a 10-year period CBBEL provided Civil, Water Resources, and Environmental Resource Services for the project. CBBEL obtained the civil engineering, water resources and wetland/buffer environmental resources permits for the project.

For final six years Jedd was the CBBEL Project Manager, and the Lead National Pollutant Discharge Elimination System (NPDES) consultant for the project. Jedd was responsible for preparing the final site grading plans following removal of the plant, final site stabilization, all SESC-NPDES inspections and design, and Corps of Engineers and Lake County Stormwater Permitting for the $1 Billion project. This project included complex permitting of transfer of a 1.2-million-pound stator-rotor (generator) across a temporary bridge constructed on the shore of Lake Michigan to a barge for shipping to a power plant in Rhode Island. Jedd also designed the successful decommissioning of the plant forebay which previously brought freshwater into the generating station from Lake Michigan; a significant backfilling operation that risked sediment release into the Lake.

This project also required strict adherence to Nuclear Regulatory Commission safety requirements.

Pine Dunes Wetland Mitigation Area, Illinois Tollway, Lake County: Project Manager responsible for coordination of project design and permitting as well as Principal Designer of the restoration program which included: design of all on-site grading; location of amenities, including bike paths, bridges and boardwalks; field tile abandonment; restoration and planting plans; and stream restoration plans which included design of pool riffle structures. Responsible for completion of wetland delineation, floristic inventory, and threatened and endangered species survey. Coordinated completion of soil survey, field tile survey, topographic survey, hydrology and hydraulic study, and all CAD work. Assisted with preparation of construction, long-term management and monitoring cost estimates. Pine Dunes includes approx. 220 acres of upland within the 315 acre parcel that are currently under

agricultural production or are woodlands comprised of white oak, red oak and other hardwoods. Project involves wetland creation, wetland enhancement, stream restoration, forest enhancement and restoration, and restoration of upland areas to prairie/savanna. The mitigation potential includes 32 acres of wetland enhancement, 58 acres of wetland restoration, and 20 acres of upland enhancement credit, 100 acres of woodland enhancement, 3,300' of stream restoration, for a total of about 85 acres of wetland/waters mitigation credit. In addition to wetland mitigation design and permitting services, CBBEL designed a 24 car parking lot, restroom, well, water fountain and nearly 3 miles of bike path, along with a 300' long bridge and 3 boardwalks.

Illiana Corridor, I-55 to I-65, IDOT & INDOT: Lead for preparation of Groundwater Resources Section and assisted with Water Resources Section of Tier 1 and Tier 2 EIS, environmental fieldwork, data collection, and impact assessment (as subconsultant) for approx. 950 square mile study area located in portions of Will and Kankakee Counties (IL) and Lake County (IN). Specific responsibilities included technical writing for Tier 1 and Tier 2 EIS; preparation of scope, budget, methodology, data collection, environmental fieldwork/coordination (for Indiana water resources: streams, lakes/ponds, habitat assessments, fish, mussels, and aquatic macro-invertebrates), agency coordination, and QA/QC. Tier 1 EIS Record of Decision was granted by FHWA in 2013 and Tier 2 EIS Record of Decision was granted in 2014. Jedd was lead consultant on wetland/water permitting.

Illinois Tollway Trees Initiative, System-wide: CBBEL Lead for the preparation of the System-wide Landscape Masterplan (LMP) for tree planting along all of the Illinois Tollway System. Project Manager for execution of three tree planting contract plans directing installation of 12,000 trees within I-355 for the Illinois Tollway. CBBEL coordinated with Illinois Tollway staff and the Morton Arboretum to prepare the LMP, contract plans, and special provisions. The LMP was developed to meet an immediate need to identify suitable planting locations within the Illinois Tollway right-of-way (ROW) for an accelerated implementation schedule to plant 58,000 trees. Preparation of the LMP took into consideration the following primary criteria which guided the recommendations for planting locations: Safety, Accessibility and Maintenance, Connectivity and Sustainability. Tree and shrub planting locations were selected to complement the Illinois Tollway's existing aesthetic palette.

DuPage Airport Authority Various Services: Environmental Lead. CBBEL provides stormwater management, land management, landscaping, wetland and buffer delineation, design, permitting and construction oversight services to the DuPage Airport Authority (DAA). The DuPage Airport Authority owns, manages and maintains a wide variety of lands. These lands include typical airport grounds, Prairie Landing Golf Course, DuPage Technology Park open space, farmland, woodlands, wetlands and old fields. These areas contain streams, constructed swales and ditches, wetland, buffer, flood plain and flood way. These sites are all interconnected and drainage throughout their holdings must be managed and maintained to high quality standards and to meet FAA wildlife hazard safety standards. Over the years CBBEL has undertaken a wide variety of projects to restore or improve drainage over most of the properties under their control. Projects include: Wetland delineation and permitting; Preparation of land management plans to address site stewardship to address drainage, wetland and buffer remediation issues early to minimize future cost creep; Stormwater Management Facility - design, modification, retrofit, permitting and construction observation; Large scale field tile replacement projects - design and permitting; Design, permitting and oversight of ditch cleaning/clearing/dredging projects; Golf Course Drainage improvement - design and permitting; Stormwater management pond - sheet pile wall repair and replacement, design, permitting and construction oversight.

Addison Creek Wetland Restoration, Northlake: Environmental Project Manager responsible for the wetland and waters delineation and permitting; stream fluvial geomorphologic restoration grading; and native landscaping plans. This project consisted of the restoration of 3,200 LF of Addison Creek between Palmer and Wolf Roads, removal of 2 low flow dams, and establishment of approximately 2.5 acres of additional wetland and waters of the United States. The stream restoration included meandering and restoration of over 8,250' of highly eroded shoreline, removal of non-native trees and shrubs, and establishment of native dominated plant communities, in the shoreline and riparian area. This project created diverse flood plain emergent wetlands and bordering native prairie buffers. Additionally, this project significantly improved water quality through restoration of a highly eroded shoreline, and improved fish movement through the elimination of two low flow dams, while providing a regional flood benefit by lower the flood plain within the project reach. The construction project received funding from the Metropolitan Water Reclamation District ($1,000,000) the Addison Creek River Conservancy District ($1,000,000) and the City of Northlake (~2,500,000).

Seneca I-80 Riverport: Project Manager responsible for the completion of wetland delineation, and USACE and IEPA permitting. IEPA permit required an Individual Permit requiring completion of an anti-degradation submittal and coordination. Proposed project consists of installation of a new barge and grain handling facility for the export of agricultural products on the Illinois River.

DuPage County Stormwater Ordinance: One of the Lead Authors on complete re-write of the County Stormwater Ordinance to reflect the current and future development conditions. The revised ordinance was developed with input from Steering Committee made up of municipal engineers and County staff. Specifically responsible for preparation of Wetland/Waters, Buffer, BMP and Soil Erosion and Sediment Control Sections of new ordinance.

Watershed Management Ordinance Implementation, MWRDGC: CBBEL is the prime consultant for engineering services in support of the MWRDGC's new Watershed Management Ordinance Implementation. CBBEL developed a TGM to be used as a technical reference for the stormwater management regulations contained in the WMO and worked with the City of Chicago, the Metropolitan Planning Council, and other stakeholders to develop guidance for the design of green infrastructure. Jedd was the lead environmental consultant for preparation of the relevant sections of the manual and training classes.

Covenant Village of Northbrook Streambank Stabilization: Principal Project Manager responsible for completion of wetland/waters delineation, design of all bank stabilization treatments, and coordination of all CAD drafting. Obtained Village, USACE, IEPA and Soil and Water Conservation District approvals. CBBEL assisted with design, permitting, bid assistance, and construction observation. Purpose of the project was to replace an existing timber retaining wall and restore near vertical eroded banks along 900' of Techny Drain, which passes through the front of property. CBBEL was tasked with providing alternative designs, presenting the aesthetics and benefits of each alternative and evaluating the cost to install each on a LF basis, since nearly 1,800 LF of work would be required. The project was broken into 3 units based on the location of entrance roads. The aesthetic importance of each unit was evaluated and assigned aesthetic priority levels. Higher priority units would receive higher quality aesthetic bank treatments. Project involved design of limestone block walls, gabion walls and boulder toe treatments.

Thomas McArdle, CWS, CPESC

Manager, Environmental Resources Department

YEARS EXPERIENCE: 34
YEARS WITH CBBEL: 29

EDUCATION

Master of Science, 1991
Forest Ecology
Southern Illinois University

Bachelor of Science, 1986
Forest Resource Management
University of Illinois at Urbana-Champaign

CERTIFICATIONS

Certified Arborist, ISA

Certified Professional in Erosion and Sediment Control

Certified Wetland Specialist, Lake County

Certified Wetland Specialist, McHenry County

Designated Erosion Control Inspector (DECI), Lake County

Qualified Wetland Specialist, Kane County

Illinois Pesticide Commercial Applicator

Certified Hazardous Waste Operations and Emergency Response

PROFESSIONAL DEVELOPMENT

Wetland Training Institute:
Wetland Delineation, Emphasis on Plant Identification

Advanced Wetland Delineation, Emphasis on Soils and Hydrology

Wetland Plant Identification

Basic Wetland Delineation

PROFESSIONAL AFFILIATIONS

Illinois Association of Environmental Professionals

International Society of Arboriculture

Society of Wetland Scientists

Soil and Water Conservation Society

Forest Ecologist experienced in environmental resources. Has completed thousands of wetland field investigations with written site evaluations and received hundreds of Section 404 authorizations including individual permits. Completed numerous tree surveys and forest inventories for private and public clients. Assists in municipal review of proposed projects and their impact on wetland and natural areas. Responsible for performing Alternative Sites Analyses in accordance with Section 404(b)1 guidelines, forest community identification, assessment and wildlife habitat evaluations. Also for Streambank Stabilization Evaluations, design, permitting and implementation. Experienced in wetland restoration planning, design and implementation. Performs community assessments of mitigation/restoration areas as maintenance and monitoring requirements for wetland construction. Develop, design, and monitor urban forest plans for community thoroughfares and responsible for coordination and completion of wetland and natural area assessments, delineations, mitigation design and maintenance and monitoring reports. Resolution of USACE/USEPA and County wetland enforcement actions. Compilation and submittal of over 200 Joint Section 404 of the Clean Water Act and IEPA wetland permit applications. Coordination with IDNR and Illinois Historic Preservation Agency regarding compliance with Section 106 guidelines and threatened & endangered species consultation reports.

Illinois Tollway: Project Manager responsible for coordination and completion of soil erosion and sediment control inspections, wetland assessments, delineations and floristic inventories for roadway improvements, drainage improvements and proposed interchanges. Project sites include: I-57 and I-294 interchange, I-88 at Eola Road interchange, I-88 at Farnsworth Road, and I-90 widening and drainage improvements. Responsible for project oversight, budget expenditures and technical report writing.

IDOT: Project Manager responsible for coordination and completion of annual maintenance and monitoring reports at compensatory wetland mitigation sites throughout Northeastern Illinois for Bureau of Programming. Tasks included vegetation assessments, wetland delineations, wetland restoration plans and coordination with regulatory agencies regarding performance standards and permit compliance. Duties also included wetland mitigation design, feasibility studies, cost estimates and preparation of design specifications. Responsible for project oversight, monitoring budget expenditures, technical report writing and organization of project correspondence and documentation.

IDNR: Project Manager responsible for coordination and completion of forest community and wetland evaluations for Office of Realty and Environmental Planning and Office of Water Resource projects in Northern Illinois. Tasks included forest and wetland restoration plans, wetland evaluations, tree inventories and wetland mitigation designs. Responsible for project oversight, monitoring budget expenditures, technical report writing and organization of project correspondence and documentation.

Regional Multi-Use Trail Projects: Includes Village of Northfield Skokie Valley Trail, DuPage County Division of Transportation East Branch DuPage River Trail and the Village of Rosemont Des Plaines River Trail. Project Manager and Ecologist responsible for coordination and completion of wetland assessments and floristic inventories, forest and wetland community evaluations, threatened and endangered species habitat evaluations and technical report writing. Responsible for assessing natural area resource impacts and coordinating with regulatory agencies regarding avoidance and minimization efforts and wetland impact permitting for multiple, lengthy regional trails. Tasks included coordination with USACE, IDNR, Forest Preserve District staff ecologists, US Fish and Wildlife Service, and County wetland regulatory staff.

Cook County Highway Department: Project Manager responsible for coordination and completion of forest community and wetland evaluations for a variety of Highway Department projects in Northern Illinois. Projects include bridge rehabilitations, road widenings, culvert replacements and streambank stabilizations. Tasks include coordination with USACE, US Fish and Wildlife Service, IDNR and County engineering staff.

Lake County Forest Preserves: Project Manager responsible for coordination and completion of wetland assessment and floristic inventories for a portion of the Ryerson Woods Forest Preserve. Floristic inventories included meander searches for threatened and endangered species within higher quality wetland and forest community habitats. Completed the Section 404 wetland permit application and submittal for drainage improvements, streambank stabilization and recreational trail repairs within the site. Coordinated completion of Section 404 permit authorization and project approvals with USACE, IDNR and US Fish and Wildlife Service. Responsible for project management, budget oversight, technical report writing, and organization of project correspondence and documentation.

Lake County Division of Transportation: Responsible for coordination and completion of several wetland evaluations for roadway improvements including Deerfield Road at the Des Plaines River, Route 83 at Peterson Road and the Midlothian Road Extension. Responsible for the assessment of on-site aquatic environments and preparation of floristic inventories as part of permit application submittals to USACE and LCSMC. Completed a

forest community evaluation and tree inventories as part of evaluating site design alternatives, construction BMPs and the completion of tree preservation plans. Responsible for assessing forest resource impacts and coordinating with LCFP regarding unavoidable tree impacts within their property and assessing forest mitigation requirements. Obtained USACE Section 404 permit for a bridge crossing over the Des Plaines River and coordination with IDNR and US Fish and Wildlife Service.

DuPage County Department of Environmental Concerns, Wheaton: Evaluated wetland and habitat assessment and delineated the extent and quality of various wetland communities within a highly disturbed subject site. Compiled dominant species lists, evaluated existing site characteristics and authored technical report.

Middle Plum Creek Forest Preserve, Will County: Project Manager responsible for preparation of a Conceptual Management Plan and Restoration Construction Documents. Responsible for project oversight, budget expenditures and technical report writing. Tasks included the completion of a natural areas assessment and diagnostic study to map existing community types and evaluate community composition. Community type mapping also identified areas of invasive species dominance, wetland resources and high quality habitat including threatened and endangered species. Upon completion of existing resources mapping and evaluation, a Conceptual Management Plan containing recommended management objectives and procedures was prepared to direct Forest Preserve District staff in promoting the establishment of higher quality habitat and reducing invasive species composition. Following completion of the Conceptual Management Plan, Restoration Construction Documents and Monitoring Protocol were developed as bid documents. The bid documents included details of the restoration activities, project specifications, plans, cost estimates and methods of construction observation.

Project Looking Good, Northlake: Acting City Forester and Project Manager, designed an urban forest plan, in cooperation with IDNR, for the planting of over 200 trees along major thoroughfares and suburban streets. Activities included the identification of suitable planting sites, development of planting specifications, coordination with planting contractors, city officials and project engineer, direction of planting activities and evaluation upon completion.

Village of Wayne: Acting Village Forester and Project Manager, completed an evaluation of landscaped trees and shrubs to determine mortality rates and capability of survival. Delineated unsuitable planting material and developed recommendations regarding the replacement and long term maintenance of new plants and existing stock. Developed landscaping and reforestation plan for impacted trees along major thoroughfares affected by ComEd tree trimming activities.

Pulte Home Corporation: Project Manager, worked as lead for a multi-disciplined team completing wetland and habitat assessments. Coordinated with site engineers in development of preliminary site plans, submittal of Joint Permit Applications and preparation of a wetland mitigation feasibility study. Coordinated with IDNR and Illinois Historic Preservation Agency regarding compliance with Section 106 guidelines and threatened and endangered species.

Chicago Bears, Lake Forest Training Facility: Performed a site assessment including wetland delineation and forest habitat evaluation. Coordinated with site engineer in development of Section 404 submittal and with IDNR in attaining state sign-off regarding threatened and endangered species. Also coordinated with Illinois Historic Preservation Agency in attaining Section 106 authorization regarding archaeological resources.

Meijer, Inc., Peoria: Project Manager, performed site wetland assessment evaluating the extent and quality of wetland areas. Assisted with submittal of Joint Permit application and successfully obtained Section 404 permit authorization for the development of a commercial development.

Woodstock Landfill: Completed an extensive inventory and evaluation of existing upland and lowland communities as part of a remedial action report covering approx. one-half square mile. Activities included a delineation of wetland areas, assessment of wildlife habitat and plant species composition, natural areas mapping and the documentation of findings.

Village of Palos Park: Project Manager, completed on site wetland assessment. Coordinated with IDNR and Illinois Historic Preservation Agency regarding compliance with Section 106 guidelines and threatened and endangered species. Submitted Joint Permit application and successfully obtained Section 404 permit authorization for the installation of community water and sewer lines.

City of Indianapolis, IN: Determined wetland community boundaries on an extremely disturbed area with altered environmental site conditions for the development of a regional stormwater storage facility. Documented the dominant species, hydric soil locations, and present hydrology. Authored technical report.

Four County Landfill, Fulton County, IN: Completed an extensive inventory and evaluation of existing upland and lowland communities as part of a Superfund remedial action report covering approx. one square mile. Activities included a delineation of wetland areas, assessment of wildlife habitat and plant species composition, natural areas mapping and documentation of findings.

SEMINARS

Society of Wetland Scientists Annual Conference: Sacramento, California, 2007; Charleston, South Carolina, 2005; Seattle, Washington, 2004; New Orleans, Louisiana, 2003; Lake Placid, New York, 2002; St. Louis, Missouri, 1998

The Illinois Association for Floodplain and Stormwater Management, Annual Conference, Lisle, 1998

Midwest Oak Savanna Conference, Northeastern Illinois University, Chicago, 1993

Great Lakes Water Quality Initiative, Sidley and Austin, Chicago, 1992

Northeastern Illinois Regional Greenways Plan, Open Lands Project, Elmhurst, 1992

Mitigating Stormwater Pollution: Best Management Practices and Site Design Concepts, Brookfield, 1992

PUBLICATIONS

Design and Construction of the Greene Valley Wetland Mitigation Site, Land and Water, 1996

St. Charles Wetland Mitigation Bank, Land and Water, 1995

Comparison of Presettlement and Present Forest Communities, by Site Type, in the Illinois Ozark Hills, MS Thesis. Southern Illinois University, Carbondale, 1991

Comparison of Presettlement Forest Communities, by Site Type, in the Ozark and Shawnee Hills, IL. Abstract: Association of Southeastern Biologists, 1990

Darren Olson, PE, D.WRE, CFM, CPESC, CPSWQ

Vice President, Assistant Department Head, Water Resources

YEARS EXPERIENCE: 23
YEARS WITH CBBEL: 23

EDUCATION
Master of Business Administration, 2003
Kellogg School of Mgt.
Northwestern University

Master of Science, 1998
Civil Engineering
University of Illinois at Urbana-Champaign

Bachelor of Science, 1997
Civil Engineering
University of Illinois at Urbana-Champaign

PROFESSIONAL REGISTRATION
Professional Engineer, IL, 062.056302, 2003

Professional Engineer, IA, P17027, 2004

CERTIFICATIONS
Diplomate Water Resources Engineer (D.WRE)

Certified Floodplain Manager IAFSM

Certified Professional in Erosion and Sediment Control

Certified Professional in Stormwater Quality, Envirocert International

Engineer Review Specialist, Kane County, E-233

Designated Erosion Control Inspector, Lake County

Enforcement Officer, Lake County

PROFESSIONAL DEVELOPMENT
Course/Seminar Instructed:
XP-SWMM
HEC-HMS
Win TR-20
Win TR-55
HEC-RAS

Seminar/Training Attended:
Ethics in City Government, Ethics Training for CDA/OMP Contractors, Vendors and Employees

Mr. Olson is a Professional Engineer with over 20 years of experience in water resources engineering. He is responsible for engineering studies and design that include complex roadway drainage projects, watershed studies, floodplain/floodway delineation studies and permitting, steady and unsteady urban hydraulic analyses, stormwater management studies and permitting, and flood control project feasibility, design, and funding. He is the Stormwater Consultant for several municipalities including Crystal Lake, Cary, Oak Brook, and Hawthorn Woods. He is actively involved in ASCE as a Region 3 Governor and recently appointed to the Committee on Americas Infrastructure.

Computer modeling skills include FEQ, HEC-RAS, HEC-HMS, HEC-1, HEC-2, WSP-2, XP-SWMM, and GIS applications.

ROADWAY HYDRAULIC STUDIES

Pine Dunes Wetland Mitigation Area, Illinois Tollway: Water Resources Engineer responsible for hydraulic and hydrologic analyses and permitting. Pine Dunes Wetland Mitigation Area includes approx. 220 acres of upland within the 315 acre parcel that are currently under agricultural production or are woodlands comprised of white oak, red oak and other hardwoods. Project involves wetland creation, wetland enhancement, stream restoration, forest enhancement and restoration, and restoration of upland areas to prairie/savanna. The mitigation potential includes about 32 acres of wetland enhancement, 58 acres of wetland restoration, and 20 acres of upland enhancement credit, 100 acres of woodland enhancement, 3,300' of stream restoration, for a total of about 85 acres of wetland/waters mitigation credit. In addition to wetland mitigation design and permitting services, CBBEL designed a 24 car parking lot, restroom, well, water fountain and nearly 3 miles of bike path, along with a 300' long bridge and 3 boardwalks.

Deerfield Road Bike Path Crossing, Lake County: Completed HEC-RAS analysis of proposed multi-span bike path crossing of the Des Plaines River. Work included scour analysis, Waterway Information Table and compensatory storage analyses in accordance with IDOT and LCSMC requirements. Compensatory storage location was coordinated with LCFPD.

Midlothian and Peterson Intersection Improvements, Grayslake: Performed hydrologic and hydraulic analysis which included floodplain studies, culvert crossing hydraulic analyses, compensatory storage calculations and detention storage calculations. The hydrologic and hydraulic analyses were coordinated with the Village and Lake County for incorporation into their plans for Lake County Fairgrounds.

Delany Road Widening and Reconstruction, Wadsworth: Completed stormwater and floodplain permitting that included site specific floodplain studies, hydraulic analysis of a major culvert crossing, preparation of Waterway Information Tables, scour analyses and coordination of detention storage and compensatory storage. The locations of compensatory storage and detention storage required easements from LCFPD and acquisition of private property.

River Road Floodplain Encroachment Report, Des Plaines: Prepared floodplain encroachment evaluation. Performed hydraulic modeling using FIS HEC-2 hydraulic models of the Des Plaines River and Weller Creek to determine longitudinal floodway and floodplain encroachments of proposed roadway alignments.

Fox River Bridges/Stearns Road Corridor IDOT Hydraulic Reports, Kane County: Oversaw water resources studies for 8 proposed bridges and culverts associated with the new, 5-mile Stearns Road Corridor over the Fox River. Studies included hydrologic and hydraulic analysis of 17 mi2 ecologically sensitive Brewster Creek Watershed, 5 IDOT hydraulic reports, 3 KDOT hydraulic reports, stormwater detention analysis and permitting, compensatory storage analysis, and wetland hydrologic analysis.

Hawthorne Lane Reconstruction, West Chicago: Developed stormwater detention and compensatory storage plan for proposed reconstruction. Using DuPage County FEQ Watershed Model for Kress Creek, project was shown to have a watershed benefit by incorporating the stormwater storage for roadway reconstruction with drainage improvements in the DuPage County Watershed Plan.

FLOOD CONTROL PROJECT FEASIBILITY AND DESIGN ANALYSIS

Cove Pond and Area 1B/1D Drainage Improvements, Crystal Lake: Project Manager for detailed XP-SWMM hydrologic and hydraulic analysis of Cove Pond and adjacent residential area that experienced severe roadway flooding. Services included concept level design, public meetings, survey and development of final design drawings and permits for drainage improvements that consisted of raising North Shore Dr, installing large box culverts and drainage improvements throughout the adjacent resident neighborhood. Improvements provided 100-year protection for North Shore Dr, which was the only access to residential neighborhood.

North Avenue Drainage Analysis and FEMA HMGP Submittal, Glendale Heights: Project Manager for drainage analysis and FEMA HMGP application for East Branch Tributary #2 Headwaters in the vicinity of North Ave. Drainage analysis utilized DuPage County FEQ model for the watershed. Model was used to analyze the existing drainage system, determine level of protection for existing residential and commercial structures, and develop proposed conditions drainage improvement projects. Upon completion of final report, a benefit-cost analysis was prepared in accordance with FEMA guidelines to develop an application for a FEMA hazard mitigation grant for preferred drainage improvement alternative. This alternative included storm sewer improvements, stormwater storage and retrofitting an existing detention basin for an estimated cost of $1.6M.

Skokie Boulevard/Edens Ditch Stormwater Study, Northbrook: Developed an XP-SWMM hydrologic and hydraulic model of a 170-acre watershed that drained to a restrictive culvert under the Edens Expressway. Study evaluated the proposed Sunset Ridge Rd improvements by CCHD and 9 proposed drainage improvements within the watershed.

Walnut Drive Culvert Reconstruction, Darien: Project Manager. Responsibilities included management of hydrologic and hydraulic modeling, permitting and design. Project consisted of reconstruction of Walnut Dr culvert crossing that had failed during September 2008 storm event. Hydrologic and hydraulic modeling was completed to develop a design that mimicked the hydraulic properties of original structure but was less prone to failure. Design drawing and permit submittals were prepared to demonstrate compliance with DuPage County Ordinance and IDNR-OWR rules for floodway construction and dam safety. Within 1 year of the storm event, construction was underway to replace the failed culverts.

Broadfield Subdivision Drainage Improvements, Lake County Surveyor's Office, Merrillville, IN: Project Manager. Responsibilities included management of hydrologic and hydraulic modeling, and civil design. In response to repetitive flooding in 2007 and 2008, CBBEL performed a flood study to determine drainage improvements that would reduce the risk of residential structure flooding within the subdivision. Storm sewer improvements were identified that would protect the structures from the 100-year flood event. Several presentations were made to the affected residents and the Town. Civil design drawings and permit submittals were prepared and improvements were constructed by the end of 2008.

Midway/Whitfield Stormwater Management Study, Northbrook: Performed detailed XP-SWMM hydrologic and hydraulic analyses of 90-acre watershed to develop cost/benefit analysis for various flood damage reduction alternatives within Northbrook East Subdivision. Economic analysis allowed the Village to incorporate proposed alternatives into their Village-wide Stormwater Management Plan.

Michael Burke, PE, CFM, CPSWQ

Water Resources Project Manager

YEARS EXPERIENCE: 10
YEARS WITH CBBEL: 10

EDUCATION

Master of Science, 2011
Civil Engineering
Southern Illinois
University, Carbondale

Bachelor of Science, 2009
Civil Engineering
Southern Illinois
University, Carbondale

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.066808, 2014

CERTIFICATIONS

Certified Floodplain Manager
IAFSM, IL-13-00651

Certified Professional in
Stormwater Quality

Envirocert International
Designated Erosion Control
Inspector - Lake County

Enforcement Officer
Lake County

PROFESSIONAL DEVELOPMENT

IAFSM Conference,
2018, 2017, 2015, 2014,
2012

CE 370 Fluid Mechanics,
Laboratory Instructor,
Southern Illinois University,
Carbondale, 2011

ENGR 351 Numerical
Methods, Graduate Assistant,
Southern Illinois University,
Carbondale, 2010

PUBLICATIONS

"Use of Unsteady Modeling
to Predict Flooding by
Correlating Stream Gages:
A Case Study", Burke, M;
(Master's Thesis); 2011

PROFESSIONAL AFFILIATIONS

ASCE, Illinois Section of
EE&WR Technical Group

Illinois Association for
Floodplain and Stormwater
Management

Water Resources Project Manager responsible for water resources engineering project analysis and design. Duties include the following hydrologic and hydraulic engineering tasks: land use characterization, floodplain/ floodway delineation, detention and compensatory storage determination, steady and unsteady hydraulic analyses, and design of conveyance systems. Proficient in 2D modeling of both urban and riverine drainage systems using XP-SWMM and HEC-RAS.

Computer Skills include: HEC-HMS, HEC-1, HEC-RAS, HEC-2, HY-8, Hydraflow, TR-20, XP-SWMM, InfoSWMM, ArcGIS, MicroStation.

Arlington Heights Flood Study, Arlington Heights: Project Engineer responsible for conducting an overall study of seven areas that significantly flooded during a major rainfall event of 6.6" in 34 hours in July 2011. Completed a flood study which included XP-SWMM modeling of each area to analyze the existing drainage system and to determine the cause of the flooding. Cross-checked flood questionnaires from residents with modeling results to offer proposed solutions with concept level cost estimates ranging from $34,000 - $6.8 million. A final report was prepared summarizing the analysis and the recommended improvements.

Cypress Area Stormwater Improvements, Arlington Heights: Project Engineer responsible for XP-SWMM modeling of the stormwater improvement project in the area of Cypress Street. CBBEL previously completed a stormwater analysis which developed the conceptual improvements, which included construction of 3,500 LF of relief storm sewers and a new 30 ac-ft detention basin on Village-owned property. The Village expanded the scope of the project to include replacement of over 10,000 LF of watermain adjacent to the project area and the reconstruction of 3,000 LF of streets in the project area. The project included preparation of final contract documents, bidding, and ultimately construction engineering.

Lincolnwood Street Storage Program: Project Engineer responsible for the XP-SWMM modeling analysis of inlet restrictors and berms to temporarily store runoff on street surfaces to reduce peak flows into system. Modeling analysis completed using 2D XP-SWMM model with "rain on grid" feature to simulate rainfall runoff.

Deer Park Stormwater Master Plan: Lead Engineer responsible for performing a comprehensive assessment of all drainage problems throughout the Village. The problems were prioritized based on severity and number of properties. Twenty drainage improvement projects were developed at an estimated cost of $2.3 Million to be completed over a 5 year period.

Assistant Village Engineer, Deer Park: In 2016, the Village hired CBBEL to perform Village engineering services including undertaking investigations of minor civil, drainage, and traffic engineering matters. Responsibilities include development, permit reviews and inspections, drainage investigations and improvement recommendations, preparing monthly status reports, and attending staff meetings, Village Board meetings, and Planning & Zoning Commission.

NPDES MS4 Assistance: Assisted multiple communities in the development and implementation of their MS4 programs. Tasks included overall program review and assessments, Illicit Discharge Detection and Elimination program development, preparation of Notice of Intent (NOI) and Annual Report.

Pheasant Hills Pond Water Quality Improvement Project, Dyer, IN: Project Engineer responsible for preparing design plans for multifaceted water quality improvement project including 9 floating treatment wetlands, a native riparian shoreline, and a sediment collection forebank. Successfully obtained necessary permits from US Army Corps of Engineers and Indiana Department of Environmental Management.

Levee 37 Drainage Study, Mount Prospect: Project Engineer responsible for hydrologic and hydraulic analysis of drainage area behind Levee 37. Developed detailed XPSWMM 2D model to analyze local flooding in the area behind Levee 37 where the Des Plaines River reduces or eliminates gravity sewer flow. Developed several alternatives to help alleviate flooding problem. Prepared drainage study report, exhibits, and presentation.

Villa Park Comprehensive Flood Plan: Project Engineer responsible for analyzing flood and combined sewer issues in the Washington Street Corridor using XPSWMM. Developed several improvement alternatives to both reduce flooding and eliminate combined sewer overflow to Salt Creek.

Park Ridge Stormwater Master Plan: Project Engineer responsible for stormwater modeling for a citywidestudy initiated to identify flood control projects throughout the City. Thirteen projects totaling over $100 million were identified. Project included significant public coordination and multiple city council presentations.

IL Route 53 Pump Station, Lombard: Project Engineer responsible for analyzing impacts of the proposed IL 53 pump station discharging to the East Branch of the DuPage River. Analysis included incorporating study area XP-SWMM modeling with hydrologic and hydraulic models of the EBDR. Developed a pump operating rule to eliminate possible EBDR downstream impacts. Helped obtain project approval from DuPage County.

Stormwater Master Plan, Wheeling: Project Engineer responsible for hydrologic and hydraulic analysis of 11 study areas. Developed two XPSWMM models for critical study areas using advanced 2D hydraulic surface modeling to analyze flooding. Provided assistance to Village in developing new stormwater utility fee. Prepared stormwater master plan report and presentation.

Rear Yard Drainage - Municipal Assistance, Various Municipalities: Water Resources Engineer responsible for assisting municipalities with large and small public right of ways and private property drainageproblems. Services varied from consultation with residents to site specific survey and preparation of plans, cost estimates and bidding assistance. Developed several "typical" solutions to chronic rear yard drainage issues including regrading, creating rain gardens, installing french drains and pump stations.

ComEd Station 13, Crawford: Project Engineer responsible for proposed stormwater drainage design for new 4-acre substation in Chicago. Successfully obtained stormwater management permit from City of Chicago.

Comprehensive Sewer Study, Riverside: Project Engineer responsible for model development and preparation of final project report. Scope included development of an Info SWMM sewer model of the Village of Riverside's entire combined and storm sewer system.

Addison Creek Drainage Improvements, MWRDGC: Assisted with creation and evaluation of XPSWMM model for existing sewer systems in Melrose Park and Stone Park for purpose of developing alternatives to reduce flooding.

Elgin-O'Hare West Bypass, IDOT: Project Engineer. Prepared HEC-HMS hydrologic models and HY-8 hydraulic models to analyze minor waterway crossings as part of the LDS. Developed methodology for median ditch design in Microsoft Excel incorporating Rational Method and Manning's Equation to design proposed median ditches along proposed Elgin O'Hare corridor.

Chateau Woods Detention Analysis, Dyer, IN: Used XPSWMM modeling to analyze poorly drained dry-bottom detention pond. Developed several improvement alternatives and demonstrated the benefit of connecting existing detention outlet pipe to a proposed pump station.

Smith Ditch Culvert Replacement Project, Crown Point, IN: Project involved design of 3 new culvert crossings through Stillwater Subdivision using HEC-RAS hydraulic modeling software. The previous crossings were installed without permits. A floodway construction permit was obtained from Indiana DNR.

I-90 Roadway Widening Project, IDOT: Project Engineer. Performed minor waterway crossing analyses for Tyler Creek West Tributary and Tyler Creek East Tributary culvert crossings under I-90 near Gilberts. Tasks included development of HEC-HMS and HEC-RAS models to analyze existing culverts and develop proposed culvert design. Also determined required compensatory storage and performed detention analysis.

ComEd Station 16, Waukegan: Performed multiple engineering tasks for proposed 10-acre ComEd substation pad. Tasks included existing BFE determination through project site, development of project site grading plan, and storm water conveyance and detention design. Existing BFE determination was approved by LCSMC.

Amherst Drive Proposed Storm Sewer, Bartlett: Project involved design of proposed 30" storm to alleviate flooding at Bartlett Rd and Amherst Dr. Proposed sewer discharges to Country Creek in DuPage County. Performed TR-20 and HEC-RAS analysis of Country Creek for existing and proposed conditions to obtain stormwater management permit.

Plum Creek/Hart Ditch Early Warning System and Flood Forecasting, Lake County Surveyors Office, Dyer, IN: Created stream gage correlation between 2 USGS stream gages to predict flooding as part of Master's Thesis Project at Southern Illinois University, Carbondale. Stream gages used for correlation were located at Burrville Rd on Plum Creek and 213th St on Hart Ditch. Converted steady state model of Plum Creek/Hart Ditch to unsteady state model. Calibrated model to accurately simulate maximum stage heights at each gage for a particular storm event. Simulated 40 large storm events using unsteady model to create correlation between the two gages. Stream gage correlation is currently used to predict flooding in downstream Dyer during large storm events.

O'Hare Modernization Program – Master Drainage Plan, Chicago: Ongoing project includes drainage master planning work to expand and reconfigure the airfield at O'Hare International Airport. Responsibilities included determining the layout of numerous storm sewer systems to collect runoff potentially contaminated with aircraft deicing fluids. Sizing of these systems was done using XP-SWMM modeling software. Responsibilities also included the sizing of 3 large detention basins, coordination with numerous airfield design projects, and technical support for permitting through IDNR-OWR, DuPage County, IEPA, MWRDGC, and FAA. Also oversaw preparation of permit submittal to IDNR-OWR for improvements within Crystal Creek watershed.

Lower Des Plaines River Detailed Watershed Plan, MWRDGC, Cook County: Project involved complete hydrologic and hydraulic analysis. Collected data within the watershed for modeling purposes. Delineated inundation areas throughout watershed to represent benefits provided by proposed improvements recommended in the study.

Flood Reduction Assessment (25-, 50-, and 100-year), Winnetka: Project Engineer responsibilities included XPSWMM modeling, exhibit and presentation preparation. Project included a Village-wide drainage study in response to July 2011 flood. Improvements were recommended for 3 levels of flood protection from the 25-, 50-, and 100-year storm events.

John Murphy, PE, PLS

Vice President, Head, Survey Department

YEARS EXPERIENCE: 36
YEARS WITH CBBEL: 23

EDUCATION
Bachelor of Science, 1987
Civil Engineering
Wentworth Institute of Technology

PROFESSIONAL REGISTRATION
Professional Land Surveyor, IL, 035003421, 2001

Professional Land Surveyor, IN, 20400062, 2004

Professional Land Surveyor, MA, 40040, 1997

Professional Land Surveyor, WI, 2548-8, 2000

Professional Engineer, MA, 41050, 1999

Professional Engineer, IL, 062.061506, 2009

PROFESSIONAL AFFILIATIONS
NSPS-ACSM Survey Technician Certification Program

Illinois Professional Land Surveyors Association

Indiana Society of Professional Land Surveyors

Wisconsin Society of Land Surveyors

Professional Engineer and Land Surveyor accountable for managing office and field survey personnel. Responsibilities include establishment and maintenance of survey procedures; budgets and contract preparation; logistical planning and research; and supervision of staff and calculations of survey data.

PROFESSIONAL LAND SURVEYING

ALTA/ACSM Land Title Surveys
The preparation of "ALTA/ACSM Land Title Survey" that meet the current accuracy standards jointly adopted by ALTA, ACSM and NSPS. For purposes of Title Insurance Companies to insure title to land without exceptions as to the many matters which might be evidenced by public records. Some projects include:

- Major General Emmett J. Bean Center, Lawrence, IN
- Prairie Holdings Corporation, Grayslake
- Hyatt, Lisle
- Hyatt, Deerfield
- Hyatt, Rosemont
- AAOS Building, Rosemont
- Fashion Outlets of Chicago, Rosemont

Plat of Annexation
The preparation of "Plat of Annexation" suitable for a municipality to annex land that is contiguous to their municipality. Some municipalities prepared for include:

- Crestwood
- Elk Grove Village
- Flossmoor
- Franklin Park
- Hawthorn Woods
- Roselle
- Woodridge

Tax Increment Financing (TIF) Districts
The preparation of a written legal description and at times a plat depicting an area of a municipality designated for Tax Increment Financing (TIF) District. Some municipalities prepared for include:

- Forest Park
- Franklin Park
- Glendale Heights
- Highwood
- Melrose Park
- Monee
- Posen
- Richton Park
- River Forest
- Roselle
- Rosemont
- Skokie
- South Chicago Heights
- Shorewood
- Steger

Plat of Vacation
The preparation of a "Plat of Vacation" suitable for a municipality to vacate pubic streets, alleys or easements. Some municipalities prepared for include:

- Chicago Ridge
- Grayslake
- Hawthorn Woods
- Rosemont

LAND SURVEYING SERVICES

Algonquin Road Bike Path and Sidewalk Improvements, Mount Prospect: Provided plats and legals for construction easements for the preliminary design of an eight-foot asphalt path, which will be constructed on the north side of Algonquin Road and replace/supplement existing segments of five-foot concrete sidewalk. Five-foot concrete sidewalk will be constructed on the south side of Algonquin Road, supplementing existing segments of sidewalk.

Sheridan Road/Chicago Avenue Improvement Project, Evanston: Prepared topographic and right-of-way verification survey on Sheridan Road/Chicago Avenue cycle track to complete the protected bikeway corridor on Church and Davis Streets to Sheridan Road via Chicago Avenue. This process included verifying elevations for Evanston's Benchmark System, topographic survey of 2 miles ± of Sheridan Road/Chicago Avenue. Establish project right-of-way based on existing right-of-way monuments and existing maps, research records and quality control of collected data.

Alley Paving Program, Evanston: Performed topographic/right-of-way survey on various alley improvement sites referenced to the City of Evanston's survey monument system. Assisted with establishment of monumented alley ROW centerline alignment and final submittal of topographic survey plan and profile sheets.

2222 Oakton Street, Evanston: Performed field crew coordination, documents and plats research, boundary analysis, computations and final preparation of a plat of survey for two lots owned by the City of Evanston. Post boundary survey prepared two lot re-subdivision for the city for future development.

Garnett Place and Alley Survey, Evanston: Performed documents and plats research, ROW and property line analysis and computations and final preparation of existing ROW, property lines and base line exhibit. Also, right-of-way centerline alignment and final submittal of topographic survey plan and profile sheets.

Chicago Water Partners (1999-2019): CBBEL is currently retained by the City of Chicago to provide topographic survey and base drawings production for over 100 miles of water main replacement projects affecting more than 300 City streets. CBBEL is responsible for the completion of base map design plans according to Chicago Department of Water Standards. We also coordinate our MBE and WBE subconsultants for each project to ensure adherence to said standards and timely completion of projects. It is necessary to base all data on IL East State Plane Coordinates NAD'83 to conform to City of Chicago GIS Applications, compute all ROW retracement, review final plans, and submit finished product packages to Chicago Water Partners. This project has also encompassed a generation of base maps for the client's use with the ADA special ramp design and construction projects maintaining CDOT Standards.

I-90, Elgin Tollbooth to US Route 20, Illinois Tollway: Survey Manager for design and roadway reconstruction. The existing roadway will be widened both east and west bound directions. Surveying responsibilities included creation of a signed and sealed "Plat of Highway" for acquisition of ROW and easements along project corridor per Tollway/IDOT Standards. Required document research for the reestablishment of ROW lines, parcel lines and section lines along the project, and coordination of field crews for field survey and recon to obtain existing field evidence of existing boundary lines and ROW; calculation and analysis of data to determine existing boundaries and ROW; and coordination of drafting of the "Plat of Highway" along with the writing of legal descriptions for various easements to be acquired for project. Along with existing conditions survey of the project corridor, including stream surveys and cross sections every 100'.

I-294 Balmoral Off Ramp, Illinois Tollway, Rosemont: Survey Manager for design and roadway construction. The new ramp is a northbound only exit ramp leading into Rosemont. Surveying responsibilities included creation of signed and sealed "Plats of Acquisitions" for acquisition of ROW and easements along project corridor per Cook County DOT Standards. Required document research for the reestablishment of ROW lines, parcel lines and section lines along the project, and coordination of field crews for field survey and recon to obtain existing field evidence of existing boundary lines and ROW; calculation and analysis of data to determine existing boundaries and ROW; and coordination of drafting of the "Plat of Highway" along with the writing of legal descriptions for various easements to be acquired for project. Also the field surveying of an Existing Conditions survey of the project corridor.

GIS, Rolling Meadows: Project Manager for updating and augmenting the City's existing GIS Base Map address and street databases. City's original data was 5 years old and work entailed the addition of recently added subdivisions and commercial property, along with adding and naming of all private streets. Performed an overall QA/QC of existing data to bring it up to date and match existing databases within Public Works, Police and Fire Departments, and Community Development. Also, for the Public Works Department: established a City-wide base map to be used by all levels of government including design of street and address maps; updating and design of digital storm, sanitary and water utility maps for use in City's GIS; coordination of workstation setup and installation with single license of ArcView and Arc Reader; and for Police and Fire Departments: assisted in the design and creation of the City's 911 response street and address databases.

GIS, Glendale Heights: Project Manager for preparation of GIS Base Maps and Utility Atlases. The Village wanted to set up Village-Wide Base Maps for use in coordination of operations involving underground utilities. Utilized the current Village atlases, although outdated, to expedite the start-up. Created a base map in Phase I comprised of information obtained from DuPage County GIS Department. Performed QA/QC to make the data consistent with the existing Village address and street maps. Also "rubber sheeted" the existing atlas information for all utilities onto the base sheets in data compatible with ESRI's ArcView 9.0 software. In Phase II, created a pilot program for atlases for the water, sanitary and storm infrastructure. Utility atlases for two quarter sections were developed based on field observations with the use of GPS and conventional surveying methods. Standard GPS and handheld GPS methodologies were compared based on cost, accuracy, and Village utility. Both methods still required field crews to collect pipe sizes and inverts. Our field crews surveyed the locations of all storm, sanitary and water structures for two of the quarter sections. Separate atlases were completed for each utility. CBBEL assisted the Village in setting up computers for use with the software and GIS database.

GIS, Huntley: Project Manager for preparation of GIS Base Maps and Utility Atlases. The Village is in the process of setting up Village-Wide Base Maps for use in coordination of operations involving underground utilities. Utilized the current Village atlases, although outdated, to expedite the start-up. Created base maps comprised of information obtained from the McHenry and Kane County GIS Department. Performed QA/QC to make the data consistent with the existing Village address and street maps. CBBEL created atlases for the water, sanitary and storm infrastructure. Utility atlases are being developed based on field observations with the use of GPS and conventional surveying methods. Our field crews surveyed the locations of all storm, sanitary and water structures for two of the quarter sections. Separate atlases were completed for each utility. CBBEL assisted the Village in setting up computers for use with the software and GIS database.

Orion Galey, PE

Senior Project Manager

YEARS EXPERIENCE: 18
YEARS WITH CBBEL: 18

EDUCATION
Bachelor of Science,
2002 General Engineering
University of Illinois at
Urbana-Champaign

PROFESSIONAL REGISTRATION
Professional Engineer, IL,
062.060829, 2008

CERTIFICATIONS
Documentation of Contract Quantities, IDOT, 21-18824

Illinois Construction Records System (ICORS) Training Seminar, IDOT

Material Management of Job Sites, IDOT

PROFESSIONAL DEVELOPMENT
IDOT QC/QA Courses:
Mixture Aggregate Technician Course

STTP-S33 Soils Field Testing and Inspection Course

Hot Mix Asphalt Level 1

Portland Cement Concrete Level 1

Portland Cement Concrete Level 2

Troxler Nuclear Gauge Safety Training Class

Professional Civil Engineer experienced in construction and design engineering. Responsible for performing project management and resident engineering duties including assistance in bidding and contract execution procedures for award of contract, on-site construction observation, documentation of quantities, coordination and/or verification of materials testing and inspection, review contractor pay requests, preparation of record drawings, and finalization of contracts with different agencies (i.e. IDOT/Cook County/MWRD/municipalities). Civil design experience includes roadway, streetscape, green infrastructure, and utility improvement design. Duties include permitting, preparation of plans and specifications, cost estimates, bidding assistance and general engineering services. Acts as main resource for all project questions from inception to completion, attending Village Board Meetings, Public Hearings and Town Hall Meetings. Provides guidance to municipalities regarding State and Federal funding opportunities and strategic direction for yearly budgets and capital programs.

Serves as CBBEL's main point of contact for multiple municipalities including Village of Elmwood Park, Village of Riverside, Village of Bloomingdale, and the Village of Oak Brook.

TRANSPORTATION

York Road (31st Street to I-88 Ramp) (Contract #61D37), Oak Brook: Project Manager for federally funded project along York Rd for approximately 0.81 miles. Work consisted of pavement patching/resurfacing, curb and gutter repairs, and non-compliant sidewalk ramp replacement to current ADA standards.

Metra Station Pedestrian Access Improvements (Contract #61E89), Riverside: Project Manager for federally funded reconstruction project designed to improve vehicular and pedestrian safety adjacent to the Riverside Metra Station. Improvements included lengthening the southbound right turn lane from Riverside Rd to Bloomingbank Rd to allow for a shorter and safer pedestrian crossing. Additional pedestrian space was also gained through this work which will include new planting areas, lighted bollards, bike racks, high visibility crosswalks and new decorative pavers.

Annual Street Rehabilitation Project (2005-Present), Elmwood Park: Project Manager for civil design, preparation of contract documents, and construction observation services for street resurfacing with curb and gutter repairs, sidewalk replacement, alley apron replacement, and combination sewer improvements along various streets totaling over 20 miles. Duties included design, permitting, construction observation, coordination of material inspection, documentation of quantities and contract administration in accordance with IDOT's Construction Manual.

Annual Street Rehabilitation Project (2014-Present), Riverside: Project Manager and Village Engineer responsible for day-to-day project management and point-of-contact, including oversight and development of design, permitting, construction document preparation, bidding assistance and utility coordination. Project annually consists of pavement reconstruction, pavement patching/resurfacing, and curb and gutter/sidewalk repairs to approx. 2 miles of residential streets within the Village. CBBEL's team provided full-range civil engineering services, including field reconnaissance, geotechnical investigation, preliminary design and budgetary cost estimate development, utility coordination, preparation of construction documents, and full-time construction engineering.

Annual Street Improvement Project (2011-Present), Oak Brook: Project Manager for approx. $2M worth of pavement resurfacing and reconstruction per year. Work includes curb and gutter/sidewalk repairs, and various drainage improvements of residential, arterial, and commercial streets throughout the Village. Duties include design, permitting, construction observation, coordination of material inspection, documentation of quantities and contract administration in accordance with IDOT's Construction Manual.

Fairway Stages 1 & 2 Roadway Improvements, Orland Park: Project Manager for full depth reconstruction of nearly 40,000 SY of roadway. Project also included curb and gutter and sidewalk removal and replacement (as necessary), storm sewer improvements, and ADA sidewalk ramps. Duties included coordination with contractor, Village staff, and residents, project scheduling, material submittals, contract administration, processing of pay estimates, and project closeout.

2017 Road Resurfacing Project, Riverside: Project Manager responsible for contract administration and project coordination. This $1M design/build project included milling and resurfacing, curb and gutter and sidewalk removal and replacement (as necessary), storm sewer improvements, ADA sidewalk ramps, and roadway restriping. Services included design of plans, preparation of bid documents, subcontracting of all work, on-site coordination, project documentation, shop drawing/mix design review, and construction observation.

East Quincy Street and Longcommon Road Resurfacing Project (2017) (Contract #61C96), Riverside: Project Manager responsible for resurfacing of 2.12 miles of roadway. These federally funded STP improvements included milling and resurfacing, spot curb repairs, storm sewer improvements, sidewalk removal and replacement including 40 ADA ramps, high visibility decorative colored and stamped crosswalks

and roadway restriping. Services included managing the design of plans and specifications, construction coordination, IDOT MISTIC and ICORS documentation, shop drawing/mix design review, construction observation, post-construction final inspection, weekly reports, final close-out documentation and pay estimates.

St. Paschal/35th Street (St. Stephens Green to Oak Brook Road) (Contract #61A18), Oak Brook: Project Manager for federally funded STP project for approx. 1.2 miles. Work consists of HMA resurfacing and widening to accommodate 4.5' wide HMA bike shoulder on each side of roadway, providing connectivity of existing bike routes between 35th St and 31st St. Project included ditch regrading, storm sewer culvert replacement, guardrail installation, ADA improvements, roadway patching, and thermoplastic pavement markings. Coordinated all aspects of construction with DCDOT, FPDDC, contractor, residents, Village Engineering Staff and Public Works.

Commerce Drive TCM Sidewalk Project (Contract #61A12), Oak Brook: Project Manager for ITEP funded project located on Commerce Dr between McDonalds Rd and end of Commerce Dr. Work consisted of installation of a new sidewalk which connected a 1/3 mile gap of accessible walk from various office buildings along Commerce Dr to an existing sidewalk at McDonalds Rd. Work included removal and replacement of curb and gutter, construction of retaining wall, pavement resurfacing, driveway apron removal and replacement, sewer adjustments, curb patching, and pavement markings.

Diversey Avenue and Sunset Drive Resurfacing, Elmwood Park: Resident Engineer for street resurfacing and widening with removal and replacement of entire length of curb, sidewalk replacement and storm sewer improvements along Diversey and Sunset from 80th Ave to Harlem Ave for 1.06 miles. Duties for this federally funded project included documentation as outlined in IDOT's construction manual and adhering to all IDOT quality control/quality assurance specifications for materials.

STORMWATER MANAGEMENT

Maycliff South Drainage and Watermain Improvement Project, Orland Park: CBBEL conducted a hydrologic and hydraulic model of the Maycliff Subdivision to develop the most effective method to alleviate flooding within the subdivision. The model indicated and CBBEL recommended a stormwater collection and conveyance system. In addition to the drainage improvements, the existing watermain was to be replaced. Once the scope was determined, the Village contracted Burke, LLC Design/Build to complete the design and construction of the improvements. The improvements included approximately 2,800 LF of storm sewer ranging from 12" to 60" in diameter as well as approximately 5,400 LF of new 8" and 12" diameter watermain. Services included project design, permitting and easement documents, construction management, schedule delivery, and contract administration.

First Division Sewer Separation Project, Riverside: Project Manager responsible for design/build project providing a separated storm sewer system in the First Division portion of the Village, conveying clear water to its historical outfall, the Des Plaines River, rather than the MWRD wastewater treatment plant. Improvements included separating existing combined sewer and constructing a dedicated storm sewer. The storm sewer provides additional capacity in MWRD interceptor sewer resulting in less sewer surcharge both upstream and downstream of the Des Plaines River. Project provides residents with a reduced risk of flooding and sewer backups as well as reducing the frequency of combined sewer overflows into the river. Project consisted of construction of approx. 9,300' of storm sewers ranging from 12" to 24" diameter and replacing 4 storm water outfalls into the Des Plaines River, temporary pavement patching, curb and gutter replacement, and ADA improvements. Services included design of plans, writing specifications, quantity take off, preparation of bid documents, on-site coordination, construction documentation, shop drawing/mix design review, construction observation, post-construction final inspection, NPDES site-audits and pay estimates.

Flood Mitigation Project, Elmwood Park: Project Manager for construction of approx. 40,000' of reinforced concrete storm sewer and box culverts ranging from 24" to 84" in diameter at various flood prone locations within the Village. Construction included excavation of a 14 acre-foot detention reservoir and a storm water pumping station within Oak Park Country Club property. Storm water is conveyed through storm sewers to detention reservoir which is then pumped to an outlet structure at Des Plaines River. Two 30" storm sewers were installed convey low flows to an existing Des Plaines River tributary. Project involves construction of a 1,600' floodwall that, by way of FEMA's LOMR, will eliminate current floodplain boundaries within the Village. Coordination and permitting from several agencies including Metra, IDOT, USACE, MWRD, SWCD, and FPDCC was required. Final 3 phases of construction received funding assistance from both IEPA and MWRD of which applicable documentation was completed. Final construction cost was over $30M. Construction Services include: pre-construction bid preparation, conferences and recommendations; support for utility relocation; shop drawing/mix design review; construction observation; post-construction final inspection and pay estimates; and NPDES site audits and final report.

Northside Stormwater Management Project, River Forest: Project Manager responsible for day-to-day project management and point-of-contact, including oversight and utility coordination. Project consisted of construction of approx. 30,000' of reinforced concrete storm sewer pipe ranging in size from 12" to 96" in diameter and a new 9'x6' outlet to Des Plaines River. Project included construction of approx. 4,000' of new ductile iron water main and 4,000' of new combined sewer pipe. This $13M project was a direct result of a Village effort to eliminate frequent sewer backups, street flooding and combined sewer overflows. Project was provided funding assistance through IEPA revolving loan program and coordination with IEPA staff was necessary for all reimbursement and change order submittals. Construction Services include: pre-construction bid preparation, conferences and recommendations; support for utility relocation; shop drawing/mix design review; construction observation; post-construction final inspection and pay estimates; and NPDES site audits and final report.

Plamondon Pond Retention/Detention Storage Improvements, Addison: Resident Engineer. Improvements included installation of 180' of 42"- and 265' of 6"-storm sewer, 3 manholes, control structure, and overflow structure. Project included overall regrading of pond to ensure the storm water relief of multiple residential subdivisions. Duties included close coordination with Village, contractor and residents, construction observation, documentation of quantities, weekly reports, preparation of pay estimates and as-built drawing.

Water Main Improvement Projects (Various), Riverside: Project Manager of civil design, preparation of contract documents and permits, and construction observation services for replacement of 8,500' of 4" and 6" water main with new 8", 10" and 12" water main along with 335 new service connections at various locations. Responsibilities included preparation of plans and specifications, coordination with IEPA and BNSF-RR for work within ROW, bid advertisement and award recommendations. Scope included assisting Village in receiving a loan from IEPA's Public Water Supply Loan Program to replace water main using ARRA funds.

Kelly Gibbons, PE

Construction Engineer

YEARS EXPERIENCE: 13
YEARS WITH CBBEL: 13

EDUCATION
Bachelor of Science, 2008
Civil Engineering
Marquette University

PROFESSIONAL REGISTRATION
Professional Engineer, IL, 062.067889, 2015

CERTIFICATIONS
Documentation of Contract Quantities, IDOT, 21-18658

ICORS Training Seminar, IDOT

PROFESSIONAL DEVELOPMENT
IDOT QC/QA Courses:

Portland Cement Concrete Level 1

Aggregate Testing Level 1

HotMix Asphalt Level 1

STTP-S33 Soils Field Testing and Inspection Course, IDOT

PROFESSIONAL AFFILIATIONS
American Public Works Association

American Society of Civil Engineers

Civil Engineer with construction engineering experience. Responsible for performing resident engineering duties including on-site construction observation and documentation, site surveying, coordination and verification of material testing and inspection, preparation of record drawings and project reports, and close-out documentation for a variety of projects. Civil design experience includes roadway resurfacing and reconstruction projects.

IDOT's Construction & Materials Management System (CMMS), IDOT's Materials Integrated System for Test Information and Communication (MISTIC), AutoCAD, Microsoft Office

Black Road, DuPage River Trail to Rock Run Trail (IDOT Contract #61E07), Forest Preserve District, Will County: Resident Engineer. A new off-road bike path was constructed along Black Road to connect the Hammel Woods Preserve and the Rock Run Preserve. The work involved in this project consisted of earth excavation for compensatory storage, segmental block walls, mechanically stabilized earth walls, aggregate column ground improvements, and the placement of HMA and PCC for the bike path. Prefabricated bridge spans, abutments, and pier structures were also needed to cross the DuPage River and Interstate 55. Services included on-site and meeting coordination, project documentation using IDOT's CMMS, shop drawing/mix design review, preparation of pay estimate and authorizations, and construction observation.

Fernway Subdivision Road & Ditch Improvements 2019, Orland Park: Resident Engineer. The project involved re-profiling of existing roadway ditches, adding a PCC shoulder, installing storm sewer, driveway pavement removal and replacement, culvert removal and replacement and HMA reconstruction. Services included on-site coordination, surveying, project documentation, shop drawing/mix design review, pay estimates, and construction observation.

2019 MFT Street Improvements, Shorewood: Resident Engineer. The work performed consisted of PCC sidewalk, curb and gutter removal and replacement, pavement removal, HMA binder course, HMA surface course, storm structure reconstruction, and parkway restoration. Services included on-site coordination, project documentation, shop drawing/mix design review, pay estimates, and construction observation.

US Route 52 & River Road (IDOT Contract #61D82), Shorewood: Resident Engineer. The project included HMA surface removal and replacement, pavement widening, construction of new pedestrian bridge, and removal and replacement of the roadway lighting and traffic signals. Services included pay estimates, contract change orders, construction observation, project documentation, and project close-out.

Meadowview Drive and Haven Ave Resurfacing, Orland Hills: Resident Engineer for 1.5 miles of hot-mix asphalt resurfacing within the Village of Orland Hills. The project included full-depth pavement removal and replacement, curb and gutter spot repairs, and ADA ramp improvements. Responsibilities included construction observation, ADA ramp lay-out, preparation of daily inspection reports, and working with IDOT to gain approval for Village requested changes throughout the project.

Caton Farm Road Reconstruction, Crest Hill: Resident Engineer responsible for construction observation and documentation, site surveying, coordination of material testing, and preparation of daily and weekly reports. This project included 0.34 miles of widening and reconstruction, installation of 900 LF of storm sewer, 1,100 LF of sanitary sewer, and 400 LF of water main, and installation of a new traffic signal at Weber Rd.

2016 MFT Project, Crest Hill: Resident Engineer responsible for construction observation, documentation of daily operations, maintenance of quantities, contractor/client communications, and all communications to the client from the residents and school district within the project limits. Project consisted of sidewalk, curb and gutter, and driveway removal and replacement as well as resurfacing 4 streets and reconstruction of 1 street.

IMTT Culvert Improvements, Lemont: Resident Engineer responsible for project initiation, construction inspection, pay estimate and change order facilitation, and project close-out. All work was done in coordination with and accordance to the Army Corp of Engineers and the MWRD's specifications. Project consisted of removal and replacement of culverts conveying water flowing from the I&M Canal to the Ship and Sanitary Canal to help relieve flooding in the area. The 2 existing 48" CMP culverts were replaced with 3 – 10'x6' precast concrete box culverts with reinforced cast-in-place headwalls and wingwalls.

Theodore Street (Gaylord to IL Route 7), Crest Hill: Resident Engineer responsible for coordination of material inspection, quantity verification, and close-out documentation as outlined in IDOT's Construction Manual.

Nelson Road Extension, New Lenox: Assistant Resident Engineer providing construction documentation and Phase III assistance to the Resident Engineer during construction of one mile of new hot-mix asphalt roadway which connects Illinois Hwy on the south to Haven Ave on the north and also ties-in with Joliet Hwy in the center. This project required approx. 73,000 CY of earth excavation involving extensive site surveying, construction of numerous

detention ponds, 4300 LF of new storm sewer to drain the site, 6,800 LF of curb and gutter, 15,000 tons of HMA for the new roadway, 41 light poles, and 2 new traffic signals at either end of the job.

80th Avenue Sidewalk Project (CMAQ), Palos Park: Resident Engineer responsible for construction observation, documentation of quantities, and quantity verification. To increase the number to pedestrian walkways providing access to the Metra train station, the Village of Palos Park had 1,500 LF of new sidewalk positioned along 80th Avenue from 121st Street to 123rd Street. The placement of this sidewalk required the installation of inlets, catch basins, storm sewers, and barrier curb and gutter performing earth excavation and ditch re-grading to manage the storm water.

2015 Resurfacing Project, Hinsdale: Resident Engineer for the Village's 2015 resurfacing program. Project included HMA surface removal and replacement of approx. 16,000 SY of pavement, pavement patching, construction of approx. 3,200' of water main with diameters ranging from 4" to 12" (including water main below the BNSF RR), installation of new valves, valve vaults and water services, connections to the existing water system, and lining of more than 2,000' of combined sewer ranging in diameter from 8" to 36". Responsibilities included construction observation, preparation of pay estimates and change orders, coordination of material testing and serving as the on-site liaison between Hinsdale residents, the Village and contractor.

Cedarwood Drive (STP), Crest Hill: Resident Engineer for reconstruction of one-half mile of Cedarwood Drive from Theodore St to Infantry Dr. Project included construction of a full-depth HMA pavement with all new combination curb and gutter. Improvements also incorporated installing new 15" storm sewer and new sidewalk. This work was completed in two stages since a detour was in effect as Cedarwood Drive became a one lane, one-way street only allowing southbound traffic. The first stage included all the work on west half of the roadway, while the second stage include the work on the east half of Cedarwood Drive. Responsibilities included construction observation, coordination of material inspection, quantity verification, and documentation as outlines in IDOT's Construction Manual.

88th Avenue Resurfacing (ARRA & STP), Orland Park and Orland Hills: Resident Engineer for 1.5 miles of HMA resurfacing of 88th Avenue from 171st Street to 159th Street including HMA level binder and surface course, Class D patching, sidewalk improvements, and curb and gutter removal and replacement. Additional improvements included the driveway reconstruction, detector loop installation, structure adjustments, and ditch re-grading. Tasks performed were coordinating meetings, preparing change orders, coordinating material inspection, and observing the daily construction activities.

Barnard Drive Improvements, Chicago Ridge: Barnard Drive had a significant number of patches, a multitude of cracks, and a curb that did not properly carry storm water to drainage structures; therefore, a complete reconstruct was necessary. This roadway reconstruction consisted of a grinding and replacing the full depth of the existing pavement, removing and replacing the curb and gutters, re-pouring the driveway aprons, installing new storm sewer and catch basins, repairing the failing sub-base and restoring the parkway. As Resident Engineer, responsible for inspecting curb layout, verifying that the contractor was in conformance with the contract specifications, completing documentation according to IDOT's documentation standards, and preparing pay estimates and change orders for the Village's approval. This project also required a substantial amount of day-to-day coordination between the contractor, the Village and the residents to ensure all residents had access to vehicles and a place to park.

Sidewalk Project (ARRA), Palos Hills: Completed construction engineering and observation for the ARRA Sidewalk Project on Roberts Road and 111th Street. Proposed improvements consisted of the removal and replacement of 8,000 LF of PCC sidewalk, installation of detectable warnings and structure adjustments. Performed the duties of full time resident engineer to observe and document the construction progress. Documentation included daily construction observations, preparation of pay estimates and change orders, coordination of on-site material testing and on-site liaison between Palos Hills, the contractor, and residents.

Safe Routes to School Sidewalk Project, Shorewood: Resident Engineer responsible for construction observation, pre-construction and construction documentation, material review and project close-out. This federally funded project incorporated the application of IDOT's ICORS. Coordination with the contractor, the Village, Troy School District 30c, and Walnut Trails homeowners association was imperative. The sidewalk construction included approximately 15,500 SF of new sidewalk at various locations to help improve the safety of children who are walking to school. As an additional precaution, detectable warnings were installed and structures were adjusted.

Nicholson Street Water Main Improvements, Crest Hill: Resident Engineer responsible for observing daily activities, reviewing submittals, preparing change orders and pay requests, and documenting the changes taking place on Nicholson Street. The project purpose was to abandon the old problematic water main and install 2,700 LF of new 8"water main. This project required driveway removal and replacement, fire hydrant and valve removal and installation, water service reconnection, sanitary services connections, and completely restoring the parkway.

Gaylord Road Resurfacing, Crest Hill: Resident Engineer responsibilities included daily observation, measurement of quantities, coordination of material testing, and IDOT paperwork. This project included the roadway resurfacing of Gaylord Road between Theodore Street and Waterford Drive. This resurfacing consisted of removing 3" of existing road surface, patching various areas of the pavement, adjusting various structures, replacing the aggregate shoulder, and repaving the surface with new asphalt.

Cora Street Water Main Improvements (MFT), Crest Hill: Resident Engineer for improvements made on Cora Street. This project consisted of grinding and resurfacing the roadway, lining the existing sanitary sewer, and replacing the aging water main and services. Ensured that the new water main and services tied into the old in such a way as to limit the resident's disruption in water service. Daily duties included construction observation, coordination of material inspection, and documentation of qualities. Other duties were preparation of change orders and submitting pay requests.

TAB 4
TECHNICAL PROPOSAL

TECHNICAL PROPOSAL

Burke LLC understands the Village of Orland Park (Village) is seeking a Design/Build Engineering firm to design, construct, permit, and perform all other services (design-build) necessary to build the Doctor Marsh Parking Lot and Nature Trail located in the Village of Orland Park, Illinois near the intersection of 153rd Street and Wolf Road. The project will include a parking lot and trail with a pedestrian bridge to cross Spring Creek leading to a viewing platform. Burke LLC is extremely familiar with the site having assisted the Village with the dedication of the property from Gallagher and Henry, preparing a wetland restoration plan, developing several iterations of proposed improvements on the project site and obtaining a Letter of Map Revision (LOMR) for Spring Creek that encompassed the entire Doctor Marsh complex. Burke LLC understands that the permitting associated with this project is complex and time consuming, but we will secure all necessary permitting quickly due to our on-going relationships with the with the Illinois Department of Natural Resources-Office of Water Resources (IDNR-OWR), Metropolitan Water Reclamation District (MWRD) and U.S. Army Corps of Engineers (USACE) to complete this project.

Proposed improvements consist of the following:

- 10 space, ADA-compliant parking lot with an adjacent flat-turf area graded so that a future parking lot expansion can be easily added.
- Approximately an 800-foot trail (gravel with alternate for asphalt) with a bridge crossing Spring Creek.
- A look out area west of the Spring Creek for bird watching and photography.
- The parking lot should access 155th Street, which has access to Wolf Road.
- If required by IDNR-OWR, USACE, or other applicable government agencies or by codes, mitigate and restoration of existing wetlands within the project limits.
- Signage for the trail including trail identification sign, seating amenities and a viewing device.

SCOPE OF SERVICES

TASK 1 – TOPOGRAPHIC SURVEY

Burke LLC will perform a topographic survey of the project site. This task is necessary for design of the proposed improvements and will also be used for hydraulic modeling and permitting.

TASK 2 - DESIGN

Task 2.1 - Design Plans and Specifications - Burke LLC will prepare plans, design and specifications necessary for the completion of the trail, parking lot and associated amenities using a design/build process.

Task 2.2 - Viewing Station - Burke LLC will design a pergola or gazebo for the viewing station.

Task 2.3 - Conceptual Plans and Renderings - Burke LLC will provide conceptual plans and renderings of proposed project in PDF or JPEG format.

Task 2.4 - Evaluate Construction Materials - Burke LLC will evaluate the low maintenance items and materials for construction such as composite wood for boardwalk.

Task 2.5 - Construction Schedule - Burke LLC will prepare an estimated construction schedule for improvements.

Task 2.6 - Cost Estimate - Burke LLC will provide detailed cost estimates including line item costs for various key elements of the project. These may include but not limited to; design, ADA-compliant parking lot, walking path, pedestrian bridge, pergola or gazebo (if included), wetland mitigation (if needed), overhead and profit, etc.

Task 2.7 - Design and Construction Scope - Burke LLC will develop a proposed scope of services for design services and construction including testing services, as appropriate and needed to complete the improvements.

TASK 3 - PERMITTING

Burke LLC will secure permitting necessary for design and construction of the project. Based on our experience, the following subtasks will be required.

Wetland Design/Permitting

Task 3.A1 – Updated Wetland Field Investigation and Report – As required by the U.S. Army Corp of Engineers, an updated wetland report showing current wetland conditions will be required. An investigation of the project site will be completed to identify the current limits of wetlands and waters of the United States present. The current delineation will be completed based on the methodology established by the U.S. Army Corps of Engineers. Also, during the site visit, wildlife and plant community qualities will be assessed. The current limits of the wetland community will be delineated using a submeter accuracy handheld GPS unit. The results of the field reconnaissance will be summarized in a current letter report. The wetlands' generalized quality ratings, according to the Swink and Wilhelm Methodology (1994), will be included along with exhibits depicting the approximate wetland and project boundaries, National Wetland Inventory, Soil Survey, floodplain, USGS topography, site photographs and their locations, and the U.S. Army Corps of Engineers Routine On-Site Data Forms. If the delineation is field surveyed, that will be used as our base wetland boundary map, otherwise we will use the best available aerial photograph.

Task 3.A2– U.S. Army Corps of Engineers Application - If necessary, Burke LLC will prepare the U.S. Army Corps of Engineers Permit Application for identified wetland or Waters of the U.S. impacts. This information will include the required exhibits, specifications, data and project information. This information will also be compiled and assembled for placement in a permit application package to the Illinois Environmental Protection Agency and other regulatory agencies as necessary. If no wetland or Waters of the U.S. impacts are proposed, we will submit the project documentation to the U.S. Army Corps of Engineers to request a Letter of No Objection for the proposed project as required by MWRD.

Task 3.A3 – MWRD Wetland Submittal - Burke LLC will prepare the Stormwater Management Permit Application. This information will include the required exhibits, specifications, data and project information.

Task 3.A4– Wetland Review Agency Coordination - If necessary, during the permit review process, we expect to have meetings with the regulatory agencies, project engineer, and client. We also expect to have to prepare responses to comments received during the review process. We have budgeted for the cost of submittal of two responses to comments. If additional meetings, or responses to comments, are required they will be billed on a time and materials basis.

Water Resources Design/Permitting

Task 3.B1 – Field Reconnaissance – We will perform a site visit to assess existing conditions that will facilitate in the agency coordination outlined in Task 3.B2.

Task 3.B2 – Agency Coordination – Burke LLC will coordinate with IDNR-OWR to determine the hydraulic modeling effort and permitting that will be required as part of the bridge replacement project. This includes attendance at a pre-application meeting with IDNR-OWR staff to discuss the details of the project and to present plans.

Task 3.B3 – Hydraulic Modeling – Burke LLC will use the current regulatory hydraulic modeling for Spring Creek that was recently prepared as part of a LOMR effective May 4, 2021. Using this model as the baseline conditions, we will incorporate any adjacent hydraulic cross sections with survey data obtained as part of Task 1. This updated model will be revised to include the new pedestrian bridge and walking path to determine any hydraulic impacts to Spring Creek, if any, in support of an IDNR-OWR floodway construction permit. Hydraulic modeling will be submitted to IDNR-OWR for their review, if required.

Task 3.B4 – IDNR-OWR Floodway Construction Permit – Burke LLC will prepare the technical data, including preparation of a hydraulic report and supporting documentation, in support of an IDNR-OWR Floodway Construction Permit for the new pedestrian bridge and walking path, if required. Permit fees associated with the Floodway Construction Permit are not included.

Task 3.B5 – MWRD Watershed Management Permit – The development requires a permit from MWRD as it is located within a flood protection area and is greater than 0.5 acres. The approximate development area including parking lot, walking path, and bridge is 1.0 acre. Downstream runoff calculations will be required to show the development does not increase velocities, flows, or flood elevations downstream nor on adjacent properties. Compensatory storage provided at 1.1 times the volume lost will be required for any fill from the walking path of bridge abutments within the 100-year floodplain.

Task 3.B6 – Response to Technical Comments (if required) – It is assumed that there will be continued coordination with IDNR-OWR and MWRD and we have budgeted for responses to two rounds of comments with each entity.

TASK 4 - IDNR COORDINATION

Burke LLC will coordinate and receive design approvals from IDNR to ensure trail obligations are being met.

TASK 5 - PUBLIC MEETING

Burke LLC will prepare exhibits and attend one public meeting to present the project. Burke LLC will incorporate comments with input and guidance from the Village staff.

TASK 6 - CONSTRUCTION

Burke LLC has teamed with Earthwerks Land Improvement & Development Corporation to construct the parking lot, trail, and bridge. We have partnered with Earthwerks due to their experience and expertise in these types of projects. Burke LLC and Earthwerks have successfully teamed together on numerous design-build projects and are excited for the opportunity to meet and exceed the Village's expectations on this project.

TASK 7 - CONSTRUCTION MANAGEMENT

Burke LLC will perform full time or part time construction observation as required for completion.

TASK 8 - AS BUILT PLANS AND SHOP DRAWINGS

Burke LLC will prepare as-built plans and shop drawings for all items included for construction.

TASK 9 - TESTING SERVICES

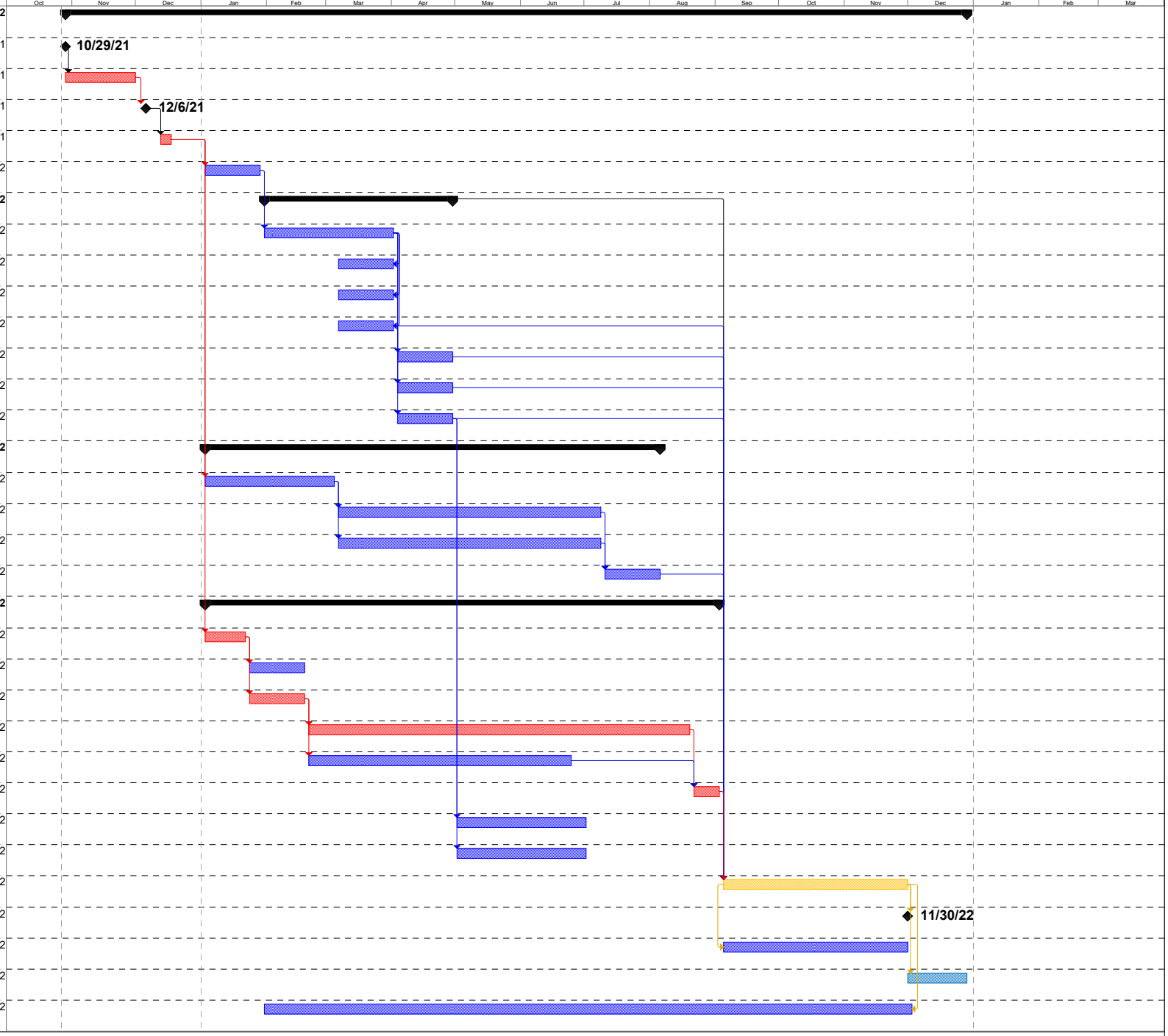
Burke LLC will utilize Testing Service Corporation (TSC) as a subconsultant to perform testing services, as appropriate and needed to complete the improvements.

TAB 5
SCHEDULE

Village of Orland Park - Doctor Marsh Parking Lot and Nature Trail

Project Schedule

ID	Task Name	Start	Finish
1	**Doctor Marsh**	**Fri 10/29/21**	**Wed 12/28/22**
2	Proposal Submittal	Fri 10/29/21	Fri 10/29/21
3	Selection of Project Team	Fri 10/29/21	Tue 11/30/21
4	Approval of Contract	Mon 12/6/21	Mon 12/6/21
5	Project Kickoff Meeting	Mon 12/13/21	Fri 12/17/21
6	Topographic Survey	Mon 1/3/22	Fri 1/28/22
7	**Design**	**Mon 1/31/22**	**Fri 4/29/22**
8	Design Plans and Specifications	Mon 1/31/22	Fri 4/1/22
9	Viewing Station	Mon 3/7/22	Fri 4/1/22
10	Conceptual Plans and Renderings	Mon 3/7/22	Fri 4/1/22
11	Evaluate Construction Materials	Mon 3/7/22	Fri 4/1/22
12	Construction Schedule	Mon 4/4/22	Fri 4/29/22
13	Cost Estimate	Mon 4/4/22	Fri 4/29/22
14	Design and Construction Scope	Mon 4/4/22	Fri 4/29/22
15	**Wetland Design/Permitting**	**Mon 1/3/22**	**Fri 8/5/22**
16	Wetland Field Investigation and Report	Mon 1/3/22	Fri 3/4/22
17	USACE Application	Mon 3/7/22	Fri 7/8/22
18	MWRD Wetland Submittal	Mon 3/7/22	Fri 7/8/22
19	Wetland Review Agency Coordination	Mon 7/11/22	Fri 8/5/22
20	**Water Resources Design/Permitting**	**Mon 1/3/22**	**Fri 9/2/22**
21	Field Reconnaissance	Mon 1/3/22	Fri 1/21/22
22	Agency Coordination	Mon 1/24/22	Fri 2/18/22
23	Hydraulic Modeling	Mon 1/24/22	Fri 2/18/22
24	IDNR-OWR Floodway Construction Permit	Mon 2/21/22	Fri 8/19/22
25	MWRD Watershed Management Permit	Mon 2/21/22	Fri 6/24/22
26	Comment Response	Mon 8/22/22	Fri 9/2/22
27	IDNR Coordination	Mon 5/2/22	Fri 7/1/22
28	Public Meeting	Mon 5/2/22	Fri 7/1/22
29	**Construction**	Mon 9/5/22	Wed 11/30/22
30	Substantial Completion	Wed 11/30/22	Wed 11/30/22
31	Construction Management	Mon 9/5/22	Wed 11/30/22
32	As-Built Plans and Shop Drawings	Thu 12/1/22	Wed 12/28/22
33	Testing Services	Mon 1/31/22	Fri 12/2/22



TAB 6
COST PROPOSAL

Doctor Marsh Parking Lot and Nature Trail

COST PROPOSAL

Base Contract Value

Task	Description		
1	Topographic Survey	$	15,000
2	Design		
2.1	Design Plans and Specifications	$	12,500
2.2	Viewing Station	$	2,500
2.3	Conceptual Plans and Renderings	$	2,500
2.4	Evaluate Construction Materials	$	1,000
2.5	Construction Schedule	$	500
2.6	Cost Estimate	$	1,500
2.7	Design and Construction Scope	$	1,000
3	Permitting		
	Wetland Design/Permitting		
3.A.1	Wetland Field Investigation and Report	$	4,725
3.A.2	USACE Application	$	3,675
3.A.3	MWRD Wetland Submittal	$	2,100
3.A.4	Wetland Review Agency Coordination	$	2,625
	Water Resources Design/Permitting		
3.B.1	Field Reconnaissance	$	1,050
3.B.2	Agency Coordination	$	3,150
3.B.3	Hydraulic Modeling	$	6,300
3.B.4	IDNR-OWR Floodway Construction Permit	$	6,300
3.B.5	MWRD Watershed Management Permit	$	7,875
3.B.6	Response to Comments	$	6,300
4	IDNR Coordination	$	1,000
5	Public Meeting	$	1,500
6	Construction	$	341,500
7	Construction Management	$	34,150
8	As-Built Plans and Shop Drawings	$	3,000
9	Testing Services	$	8,500
	General Conditions (Insurance OH and Profit)	$	27,320
	Base Contract Price	$	497,570

Alternates

Task	Description		
	Alternate 1 - HMA Path and HMA Parking Lot	$	102,600
	Alternate 2 - Composite Pergola, 16'x16'	$	24,000
	Alternate 3 - Composite Gazebo, 16'x16'	$	35,000

Assumptions/Qualifications and Clarifications:

1. We assume that the on site soils are clean. If it is determined that the existing soils are contaminated, then a change order shall be warranted to cover the additional cost.

2. We assume that the on site soils are cohesive and suitable for a typical cast in place bridge footing. If it is determined that the soils are unsuitable to support a typical footing, then a change order shall be warranted to cover the additional cost.

TAB 7
REQUIRED FORMS

PROPOSAL SUMMARY SHEET
CERTIFICATE OF COMPLIANCE
REFERENCES
INSURANCE REQUIREMENTS
BID BOND

PROPOSAL SUMMARY SHEET

RFP #21-056

Doctor Marsh Parking Lot and Nature Trail

Business Name: Burke, LLC

Street Address: 9575 W Higgins Road, Suite 600

City, State, Zip: Rosemont, IL 60018

Contact Name: James Amelio, PE

Title: Principal

Phone: 847.823.0500 Fax: 847.823.0520

E-Mail address: jamelio@cbbel.com

Price Proposal

PROPOSAL TOTAL $ 497,570

AUTHORIZATION & SIGNATURE

Name of Authorized Signee: James Amelio, PE

Signature of Authorized Signee: 

Title: Principal Date: October 29, 2021

ORLAND PARK

CERTIFICATE OF COMPLIANCE

The undersigned James Amelio, as Principal
(Enter Name of Person Making Certification) *(Enter Title of Person Making Certification)*

and on behalf of Burke, LLC, certifies that:
(Enter Name of Business Organization)

1) BUSINESS ORGANIZATION:

The Proposer is authorized to do business in Illinois: Yes [ ] No [ ]

Federal Employer I.D.#: 36-4418749
(or Social Security # if a sole proprietor or individual)

The form of business organization of the Proposer is (*check one*):

___ Sole Proprietor
___ Independent Contractor *(Individual)*
___ Partnership
_X_ LLC
___ Corporation _____ _____
(State of Incorporation) *(Date of Incorporation)*

2) ELIGIBILITY TO ENTER INTO PUBLIC CONTRACTS: Yes [X] No [ ]

The Proposer is eligible to enter into public contracts, and is not barred from contracting with any unit of state or local government as a result of a violation of either Section 33E-3, or 33E-4 of the Illinois Criminal Code, or of any similar offense of "Bid-rigging" or "Bid-rotating" of any state or of the United States.

3) SEXUAL HARASSMENT POLICY: Yes [X] No [ ]

Please be advised that Public Act 87-1257, effective July 1, 1993, 775 ILCS 5/2-105 (A) has been amended to provide that every party to a public contract must have a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105 (A) (4) and includes, at a minimum, the following information: (I) the illegality of sexual harassment; (II) the definition of sexual harassment under State law; (III) a description of sexual harassment, utilizing examples; (IV) the vendor's internal complaint process including penalties; (V) the legal recourse, investigative and complaint process available through the Department of Human Rights (the "Department") and the Human Rights Commission (the "Commission"); (VI) directions on how to contact the Department and Commission; and (VII) protection against retaliation as provided by Section 6-101 of the Act. (Illinois Human Rights Act). (emphasis added). Pursuant to 775 ILCS 5/1-103 (M) (2002), a "public contract" includes "...every contract to which the State, any of its political subdivisions or any municipal corporation is a party."

4) EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE: Yes [X] No [ ]

During the performance of this Project, Proposer agrees to comply with the "Illinois Human Rights Act", 775 ILCS Title 5 and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, et seq. The

Proposer shall: (I) not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, or physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; (II) examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization; (III) ensure all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, or physical or mental handicap unrelated to ability, or an unfavorable discharge from military service; (IV) send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Vendor's obligations under the Illinois Human Rights Act and Department's Rules and Regulations for Public Contract; (V) submit reports as required by the Department's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and Department's Rules and Regulations for Public Contracts; (VI) permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and Department's Rules and Regulations for Public Contracts; and (VII) include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of this Agreement obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this Agreement, the Proposer will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Proposer will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations. Subcontract" means any agreement, arrangement or understanding, written or otherwise, between the Proposer and any person under which any portion of the Proposer's obligations under one or more public contracts is performed, undertaken or assumed; the term "subcontract", however, shall not include any agreement, arrangement or understanding in which the parties stand in the relationship of an employer and an employee, or between a Proposer or other organization and its customers. In the event of the Proposer's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Right Act, or the Rules and Regulations for Public Contracts of the Department of Human Rights the Proposer may be declared non-responsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and this agreement may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

5) PREVAILING WAGE COMPLIANCE: Yes [X] No [ ]

In the manner and to the extent required by law, this contract is subject to the Illinois Prevailing Wage Act and to all laws governing the payment of wages to laborers, workers and mechanics of Contractor or any subcontractor of the Contractor bound to this agreement who is performing services covered by this contract. If awarded the Contract, per 820 ILCS 130 et seq. as amended, Contractor shall pay not less than the prevailing hourly rate of wages, the generally prevailing rate of hourly wages for legal holiday and overtime work, and the prevailing hourly rate for welfare and other benefits as determined by the Illinois Department of Labor or the Village and as set forth in the schedule of prevailing wages for this contract to all laborers, workers and mechanics performing work under this contract (available at http://www.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx).

The undersigned Proposer further stipulates and certifies that it has maintained a satisfactory record of Prevailing Wage Act compliance with no significant Prevailing Wage Act violations for the past three (3) years.

Certified Payroll. The Illinois Prevailing Wage Act requires any contractor and each subcontractor who participates in public works to file with the Illinois Department of Labor (IDOL) certified payroll for those calendar months during which work on a public works project has occurred. The Act requires certified payroll to be filed with IDOL no later than the 15th day of each calendar month for the immediately preceding month through the Illinois Prevailing Wage Portal—an electronic database IDOL has established for collecting and retaining certified payroll. The Portal may be accessed using this link: https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx. The Village reserves the right to withhold payment due to Contractor until Contractor and its subcontractors display compliance with this provision of the Act.

6) PARTICIPATION IN APPRENTICESHIP AND TRAINING PROGRAM: Yes [ ] No [X]

Contractor participates in apprenticeship and training programs applicable to the work to be performed on the project, which are approved by and registered with the United States Department of Labor's Office of Apprenticeship.

Name of A&T Program: _____

Brief Description of Program: _____

7) TAX CERTIFICATION: Yes [X] No [ ]

Contractor is current in the payment of any tax administered by the Illinois Department of Revenue, or if it is: (a) it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate Revenue Act; or (b) it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

8) AUTHORIZATION & SIGNATURE:

I certify that I am authorized to execute this Certificate of Compliance on behalf of the Contractor set forth on the Proposal, that I have personal knowledge of all the information set forth herein and that all statements, representations, that the Proposal is genuine and not collusive, and information provided in or with this Certificate are true and accurate. The undersigned, having become familiar with the Project specified, proposes to provide and furnish all of the labor, materials, necessary tools, expendable equipment and all utility and transportation services necessary to perform and complete in a workmanlike manner all of the work required for the Project.

ACKNOWLEDGED AND AGREED TO:

Signature of Authorized Officer

James Amelio, PE

Name of Authorized Officer

Principal

Title

October 29, 2021

Date

REFERENCES

Provide three (3) references for which your organization has performed similar work.

Bidder's Name: Burke LLC

(Enter Name of Business Organization)

1. ORGANIZATION: Village of Algonquin
   ADDRESS: 2200 Harnish Drive, Algonquin, IL 60102
   PHONE NUMBER: 847.658.2700
   CONTACT PERSON: Bob Mitchard, Public Works Director
   YEAR OF PROJECT: 2007 - Current

2. ORGANIZATION: Village of Oak Brook
   ADDRESS: 1200 Oak Brook Road, Oak Brook, IL 60523
   PHONE NUMBER: 630.368.5272
   CONTACT PERSON: Rick Valent, Director of Public Works
   YEAR OF PROJECT: 2016 - Current

3. ORGANIZATION: Village of Riverside
   ADDRESS: 27 Riverside Road, Riverside, IL 60546
   PHONE NUMBER: 708.442.3590
   CONTACT PERSON: Dan Tabb, Public Works Director
   YEAR OF PROJECT: 2012 - Current

ORLAND PARK

INSURANCE REQUIREMENTS

Please submit a policy Specimen Certificate of Insurance showing current coverage's

WORKERS' COMPENSATION & EMPLOYER LIABILITY
Full Statutory Limits - Employers Liability
$500,000 – Each Accident $500,000 – Each Employee
$500,000 – Policy Limit
Waiver of Subrogation in favor of the Village of Orland Park

AUTOMOBILE LIABILITY (ISO Form CA 0001)
$1,000,000 – Combined Single Limit Per Occurrence
Bodily Injury & Property Damage

GENERAL LIABILITY (Occurrence basis) (ISO Form CG 0001)
$1,000,000 – Combined Single Limit Per Occurrence
Bodily Injury & Property Damage
$2,000,000 – General Aggregate Limit
$1,000,000 – Personal & Advertising Injury
$2,000,000 – Products/Completed Operations Aggregate
Additional Insured Endorsements: ISO CG 20 10 or CG 20 26 **and** CG 20 01 Primary & Non-Contributory
Waiver of Subrogation in favor of the Village of Orland Park

Please provide the following coverage, if box is checked:

☑ **PROFESSIONAL LIABILITY**
$1,000,000 Limit - Claims Made Form, Indicate Retroactive Date
Deductible not-to-exceed $50,000 without prior written approval

☐ **UMBRELLA LIABILITY (Follow Form Policy)**
$2,000,000 – Each Occurrence $2,000,000 – Aggregate
EXCESS MUST COVER: General Liability, Automobile Liability, Employers' Liability

☐ **UMBRELLA/EXCESS PROFESSIONAL LIABILITY**
$1,000,000 Limit – Claims Made Form, Indicate Retroactive Date
Deductible not-to-exceed $50,000 without prior written approval

☐ **BUILDERS RISK**
Completed Property Full Replacement Cost Limits -
Structures under construction

☐ **ENVIRONMENTAL IMPAIRMENT/POLLUTION LIABILITY**
$1,000,000 Limit for bodily injury, property damage and remediation costs
resulting from a pollution incident at, on or mitigating beyond the job site

☐ **CYBER LIABILITY**
$1,000,000 Limit per Data Breach for liability, notification, response,
credit monitoring service costs, and software/property damage

Any insurance policies providing the coverages required of the Consultant, excluding Professional Liability, shall be specifically endorsed to identify **"The Village of Orland Park, and their respective officers, trustees, directors, officials, employees, volunteers and agents as Additional Insureds on a primary/non-contributory basis with respect to all claims arising out of operations by or on behalf of the named insured."** The required Additional Insured coverage shall be provided on the Insurance Service Office (ISO) CG 20 10 or CG 20 26 endorsements or an endorsement at least as broad as the above noted endorsements as determined by the

Village of Orland Park. Any Village of Orland Park insurance coverage shall be deemed to be on an excess or contingent basis as confirmed by the required (ISO) CG 20 01 Additional Insured Primary & Non-Contributory Endorsement. The policies shall also contain a Waiver of Subrogation in favor of the Additional Insureds in regard to General Liability and Workers' Compensation coverage. The certificate of insurance shall also state this information on its face. Any insurance company providing coverage must hold an A-, VII rating according to Best's Key Rating Guide. Each insurance policy required shall have the Village of Orland Park expressly endorsed onto the policy as a Cancellation Notice Recipient. Should any of the policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. Permitting the contractor, or any subcontractor, to proceed with any work prior to our receipt of the foregoing certificate and endorsements shall not be a waiver of the contractor's obligation to provide all the above insurance.

Consultant agrees that prior to any commencement of work to furnish evidence of Insurance coverage providing for at minimum the coverages, endorsements and limits described above directly to the Village of Orland Park, Nicole Merced, Management Analyst, 14700 S. Ravinia Avenue, Orland Park, IL 60462. Failure to provide this evidence in the time frame specified and prior to beginning of work may result in the termination of the Village's relationship with the contractor.

ACCEPTED & AGREED ON 10/29/2021

Signature

James Amelio

Printed Name

Principal

Title

Authorized to execute agreements for:

Burke LLC

Name of Company

Note: Sample Certificate of Insurance and Additional Insured Endorsements attached.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
Date of Completion

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: This section must be completed	
Agent/Broker Name & Address	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	PRODUCER CUSTOMER ID #:	

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Vendor/Organization Name & Address	INSURER A :	
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC	Y	Y	Policy No.	Eff. Date	Exp. Date	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 50,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
	AUTOMOBILE LIABILITY X ANY AUTO OR X ALL OWNED AUTOS X SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			Policy No.	Eff. Date	Exp. Date	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $ $	$ 1,000,000 $ $ $
	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DEDUCTIBLE RETENTION $	Y	Y	Policy No.	Eff. Date	Exp. Date	EACH OCCURRENCE AGGREGATE $ $	$ 2,000,000 $ 2,000,000 $ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	Policy No.	Eff. Date	Exp. Date	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 500,000 $ 500,000 $ 500,000
	Liquor Liability**			Policy No.	Eff. Date	Exp. Date		$1,000,000
	Property		Y	Policy No.	Eff. Date	Exp. Date		$Replacement Cost

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

RE: Event & Dates. ADDITIONAL INSURED with respect to General Liability on a Primary & Non-Contributory basis: Village of Orland Park, its related entities and each of their respective officers, directors, employees and agents. WAIVER OF SUBROGATIOIN applies to General Liability, Workers Compensation & Property coverages. **Required if selling and/or serving alcohol; if applicable, the policy shall list Village of Orland Park & its related entities as the Named Insureds. Alternatively, an existing Liquor Liability policy must extend coverage to your operations at the Event, and shall name Village of Orland Park, its related entities and their respective officers, directors, employees & agents as Primary & Non-Contributory Additional Insureds.

CERTIFICATE HOLDER

Village of Orland Park
14700 Ravinia Avenue
Orland Park, IL 60462

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

This section is to be completed.

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 10 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

A. In the performance of your ongoing operations; or

B. In connection with your premises owned by or rented to you.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

PRIMARY AND NONCONTRIBUTORY – OTHER INSURANCE CONDITION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following is added to the **Other Insurance** Condition and supersedes any provision to the contrary:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured under your policy provided that:

(1) The additional insured is a Named Insured under such other insurance; and

(2) You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – AUTOMATIC STATUS WHEN REQUIRED IN CONSTRUCTION AGREEMENT WITH YOU

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. **Section II – Who Is An Insured** is amended to include as an additional insured any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy. Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and
2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person's or organization's status as an additional insured under this endorsement ends when your operations for that additional insured are completed.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
   a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
   b. Supervisory, inspection, architectural or engineering activities.

   This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.
2. "Bodily injury" or "property damage" occurring after:
   a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
   b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 37 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location And Description Of Completed Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/21/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Willis Towers Watson Midwest, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	**CONTACT NAME:** Willis Towers Watson Certificate Center **PHONE (A/C, No, Ext):** 1-877-945-7378 **FAX (A/C, No):** 1-888-467-2378 **E-MAIL ADDRESS:** certificates@willis.com
	INSURER(S) AFFORDING COVERAGE / **NAIC #** **INSURER A :** Lexington Insurance Company 19437 **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**
INSURED Burke LLC 9575 W. Higgins Road Suite 600 Rosemont, IL 60018	

COVERAGES **CERTIFICATE NUMBER:** W21007704 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
	☐ OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	☐ **UMBRELLA LIAB** ☐ OCCUR						EACH OCCURRENCE	$
	☐ **EXCESS LIAB** ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						☐ PER STATUTE ☐ OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ **(Mandatory in NH)**	N / A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	**PROFESSIONAL LIABILITY**			031565474	06/01/2021	06/01/2022	**EACH CLAIM**	**$2,000,000**
							AGGREGATE	**$4,000,000**

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

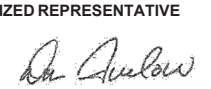
CERTIFICATE HOLDER

Burke LLC
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 10/12/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Gail Pope	
Donne Insurance Group, Inc 7777 W. 159th Street Suite B Tinley Park IL 60477	PHONE (A/C, No, Ext): (708) 429-3100	FAX (A/C, No): (708) 429-3105
	E-MAIL ADDRESS: Gail.Pope@DonneInsurance.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Admiral Insurance Company	24856
INSURED Burke LLC 9575 W. Higgins Road Suite 600 Rosemont IL 60018	INSURER B : AmGuard Insurance Company	42390
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 2021-2022 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [X] LOC [ ] OTHER:			CA000036301-03	10/15/2021	10/15/2022	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 1,000,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [X] HIRED AUTOS ONLY [X] NON-OWNED AUTOS ONLY			CA000036301-03	10/15/2021	10/15/2022	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	[X] UMBRELLA LIAB [X] OCCUR EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000			GX000002669-03	10/15/2021	10/15/2022	EACH OCCURRENCE AGGREGATE	$ 4,000,000 $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N [ ] If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		R2WC216943	10/15/2021	10/15/2022	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

The General Liability policy includes Blanket Additional Insured status, primary and non-contributory coverage and waiver of subrogation, but only when required by written contract. 30 day notice of cancellation. Excess/Umbrella follows form.

CERTIFICATE HOLDER

Proof of Coverage

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

William A. Donne

AIA Document A310™ - 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)
Earthwerks Land Improvement and Development Corporation
1240 Lyon Road
Batavia, IL 60510

SURETY:
(Name, legal status and principal place of business)
Harco National Insurance Company: Illinois Corporation

One Newark Center, 20th floor
Newark, NJ 07102-5207

OWNER:
(Name, legal status and address)
Village of Orland Park
14700 S. Ravinia Avenue
Orland Park, IL 60462

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: Ten Percent of the Amount of Bid------ (--10%--)

PROJECT:
(Name, location or address, and Project number, if any)
Doctor Marsh Parking Lot and Nature Trail

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 29th day of October, 2021.

Ashley Kamionka
(Witness)

See Attached Jurat
(Witness)

Earthwerks Land Improvement and Development Corporation
(Principal) *(Seal)*

DAN DAVIES
(Title) President

Harco National Insurance Company
(Surety) *(Seal)*

Courtney A. Flaska
(Title) Courtney A. Flaska, Attorney In Fact

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

Init.
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Surety Company Acknowledgement

STATE OF **ILLINOIS**
COUNTY OF **COOK** SS:

On this 29th day of October, 2021 before me personally appeared Courtney A. Flaska, to me known, who, being by me duly sworn, did depose and say: that (s)he resides at **Schaumburg, Illinois**, that (s)he is the **Attorney in Fact** of Harco National Insurance Company, the corporation described in and which executed the annexed instrument; that (s)he knows the corporate seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; that (s)he signed his/her name thereto by like order; and that the liabilities of said corporation do not exceed its assets as ascertained in the manner provided by law.

Samantha Bradtke

Notary Public in and for the above County and State

My Commission Expires: **06/23/25**

OFFICIAL SEAL
SAMANTHA BRADTKE
Notary Public - State of Illinois
My Commission Expires June 23, 2025

POWER OF ATTORNEY

Bond # Bid Bond

HARCO NATIONAL INSURANCE COMPANY
INTERNATIONAL FIDELITY INSURANCE COMPANY

Member companies of IAT Insurance Group, Headquartered: 4200 Six Forks Rd, Suite 1400, Raleigh, NC 27609

KNOW ALL MEN BY THESE PRESENTS: That **HARCO NATIONAL INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of Illinois, and **INTERNATIONAL FIDELITY INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of New Jersey, and having their principal offices located respectively in the cities of Rolling Meadows, Illinois and Newark, New Jersey, do hereby constitute and appoint

MIKE POHL, KIRK A. LISKIEWITZ, COURTNEY A. FLASKA, SAMANTHA BRADTKE, BRIEN SPODEN, JAMES L. SULKOWSKI, ROBERT B. SCHUTZ, SHERENE L. HEMLER, CAROL A. DOUGHERTY, STEPHEN L. WEBSTER, CHRISTINE EITEL, LUCIANNE BISCHOFF

Schaumburg, IL

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY**, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** and is granted under and by authority of the following resolution adopted by the Board of Directors of **INTERNATIONAL FIDELITY INSURANCE COMPANY** at a meeting duly held on the 13th day of December, 2018 and by the Board of Directors of **HARCO NATIONAL INSURANCE COMPANY** at a meeting held on the 13th day of December, 2018.

"**RESOLVED**, that (1) the Chief Executive Officer, President, Executive Vice President, Senior Vice President, Vice President, or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

Load Current Date

IN WITNESS WHEREOF, **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** have each executed and attested these presents on this 31st day of December, 2020

INTERNATIONAL FIDELITY INSURANCE COMPANY CORPORATE SEAL 1904 NEW JERSEY

STATE OF NEW JERSEY
County of Essex

STATE OF ILLINOIS
County of Cook

HARCO NATIONAL INSURANCE COMPANY CORPORATE SEAL 1984 ILLINOIS

Kenneth Chapman
Executive Vice President, Harco National Insurance Company
and International Fidelity Insurance Company

On this 31st day of December, 2020 , before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY**; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

SHIRELLE A. OUTLEY My Comm. Exp. 04-04-2023 NOTARY PUBLIC No. 50079910 NEW JERSEY

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.

Shirelle A. Outley a Notary Public of New Jersey
My Commission Expires April 4, 2023

CERTIFICATION

I, the undersigned officer of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand on this day, October 29, 2021

Irene Martins, Assistant Secretary

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