

RESOLUTION NO. 16-28

A RESOLUTION AUTHORIZING A CONSTRUCTION ENGINEERING SERVICES AGREEMENT WITH CHRISTOPHER B. BURKE ENGINEERING LTD., TO PROVIDE PHASE III CONSTRUCTION ENGINEERING SERVICES FOR THE NORTH SIDE SIDEWALK IMPROVEMENT PROJECT

WHEREAS, the Village of Villa Park (“the Village”) is duly organized and validly existing non-home rule municipality created in accordance with the Constitution of the State of Illinois of 1970 and the laws of the State; and

WHEREAS, the Village of Villa Park has a satisfactory relationship with Christopher B. Burke Engineering Ltd., and in compliance with the Local Government Professional Services Selection Act (50 ILCS 510/0.01 et seq.) has negotiated agreements with said firm for engineering services; and

WHEREAS, the President and Board of Trustees of the Village of Villa Park find that it is in the best interests of the citizens of the Village of Villa Park to enter into an agreement with Christopher B. Burke Engineering Ltd., of Rosemont, Illinois for a project commonly known as the “North Side Sidewalk Improvement Project”, as more specifically set forth in documents styled “*Construction Engineering Services Agreement for Federal Participation*” between the Village of Villa Park and Christopher B. Burke Engineering Ltd., a copy of which are attached hereto and incorporated herein by reference as Exhibit A;

NOW THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Villa Park, DuPage County, State of Illinois, as follows:

Section 1: That the *Construction Engineering Services Agreement for Federal Participation* Job Number C-91-250-13 and Project Number M-4003(186) that is attached hereto and made a part hereof by reference as Exhibit A, between Christopher B. Burke Engineering Ltd., of Rosemont, Illinois and the Village be and is hereby approved and Village President, Deborah Bullwinkel and Village Clerk, Hosanna Korynecky are hereby authorized to execute said Agreement on behalf of the Village.

Section 2: That this resolution shall be in full force and effect from and after its passage and approval according to law.

PASSED this 28th day of March, 2016, pursuant to a roll call vote as follows:

AYES:	5
NAYS:	0
ABSENT:	2


APPROVED this 28th day of March, 2016

RESOLUTION NO. _____

Attest: Jessica King
Village Clerk

[Signature]
Village President



Local Agency Village of Villa Park	 Illinois Department of Transportation Construction Engineering Services Agreement For Federal Participation	L O C A L A G E N C Y	Consultant Christopher B. Burke Engineering
County DuPage			Address 9575 W. Higgins Road
Section 13-00092-00-SW			City Rosemont
Project No. M-4003(186)			State Illinois
Job No. C-91-250-13			Zip Code 60018
Contact Name/Phone/E-mail Address Vydas Juskelis, PE / (630) 834-8505 juskelis@invillapark.com			Contact Name/Phone/E-mail Address Lisa Gasperec, PE / (847) 417-4221 lgasperec@cbbel.com

THIS AGREEMENT is made and entered into this _____ day of _____, 2016 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT described herein. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director Division of Highways, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LA in immediate charge of the engineering details of the PROJECT
In Responsible Charge	A full time LA employee authorized to administer inherently governmental PROJECT activities
Contractor	Company or Companies to which the construction contract was awarded

Project Description

Name Twin Lakes Subdivision Sidewalk Improvements Route Off-System Length 1.96 mi Structure No. N/A

Termini _____

Description: The work consists of furnishing all labor, materials, equipment, and other incidentals necessary for the completion of sidewalk installation including driveway pavement removal, PCC and HMA driveway installation; sidewalk removal; curb and gutter removal; curb and gutter removal and repalcmenet; drainage improvements; tree removal; and other incidental and misc. items.

Agreement Provisions

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the engineering services for the LA, in connection with the PROJECT hereinbefore described and checked below:
 - a. Proportion concrete according to applicable STATE Bureau of Materials and Physical Research (BMPR) Quality Control/Quality Assurance (QC/QA) training documents or contract requirements and obtain samples and perform testing as noted below.
 - b. Proportion hot mix asphalt according to applicable STATE BMPR QC/QA training documents and obtain samples and perform testing as noted below.
 - c. For soils, to obtain samples and perform testing as noted below.
 - d. For aggregates, to obtain samples and perform testing as noted below.

NOTE: For 1a. through 1d. the ENGINEER is to obtain samples for testing according to the STATE BMPR "Project Procedures Guide", or as indicated in the specifications, or as attached herein by the LA; test according to the STATE BMPR "Manual of Test Procedures for Materials", submit STATE BMPR inspection reports; and verify compliance with contract specifications.

- e. Inspection of all materials when inspection is not provided at the sources by the STATE BMPR, and submit inspection reports to the LA and the STATE in accordance with the STATE BMPR "Project Procedures Guide" and the policies of the STATE.
- f. For Quality Assurance services, provide personnel who have completed the appropriate STATE BMPR QC/QA trained technician classes.
- g. Inspect, document and inform the LA employee In Responsible Charge of the adequacy of the establishment and maintenance of the traffic control.
- h. Geometric control including all construction staking and construction layouts.
- i. Quality control of the construction work in progress and the enforcement of the contract provisions in accordance with the STATE Construction Manual.
- j. Measurement and computation of pay items.
- k. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work.
- l. Preparation and submission to the LA by the required form and number of copies, all partial and final payment estimates, change orders, records, documentation and reports required by the LA and the STATE.
- m. Revision of contract drawings to reflect as built conditions.
- n. Act as resident construction supervisor and coordinate with the LA employee In Responsible Charge.

2. Engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with the AGREEMENT.
3. To furnish the services as required herein within twenty-four hours of notification by the LA employee In Responsible Charge.
4. To attend meetings and visit the site of the work at any reasonable time when requested to do so by representatives of the LA or STATE.
5. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without the written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
6. The ENGINEER shall submit invoices, based on the ENGINEER's progress reports, to the LA employee In Responsible Charge, no more than once a month for partial payment on account for the ENGINEER's work completed to date. Such invoices shall represent the value, to the LA of the partially completed work, based on the sum of the actual costs incurred, plus a percentage (equal to the percentage of the construction engineering completed) of the fixed fee for the fully completed work.
7. That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable to improvement of the SECTION; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
8. That the ENGINEER shall be responsible for the accuracy of the ENGINEER's work and correction of any errors, omissions or ambiguities due to the ENGINEER'S negligence which may occur either during prosecution or after acceptance by the LA. Should any damage to persons or property result from the ENGINEER's error, omission or negligent act, the ENGINEER shall indemnify the LA, the STATE and their employees from all accrued claims or liability and assume all restitution and repair costs arising from such negligence. The ENGINEER shall give immediate attention to any remedial changes so there will be minimal delay to the contractor and prepare such data as necessary to effectuate corrections, in consultation with and without further compensation from the LA.
9. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.
10. The undersigned certifies neither the ENGINEER nor I have:
 - a) employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT;

- b) agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - c) paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - d) are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency;
 - e) have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
 - f) are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) of this certification; and
 - g) have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
11. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
 12. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
 13. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the work called for in the AGREEMENT.
 14. To be prequalified with the STATE in Construction Inspection when the ENGINEER or the ENGINEER's assigned staff is named as resident construction supervisor. The onsite resident construction supervisor shall have a valid Documentation of Contract Quantities certification.
 15. Will provide, as required, project inspectors that have a valid Documentation of Contract Quantities certification.

II. THE LA AGREES,

1. To furnish a full time LA employee to be In Responsible Charge authorized to administer inherently governmental PROJECT activities.
2. To furnish the necessary plans and specifications.
3. To notify the ENGINEER at least 24 hours in advance of the need for personnel or services.
4. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee Formulas

- $FF = 14.5\%[DL + R(DL) + OH(DL) + IHDC]$, or
- $FF = 14.5\%[(2.3 + R)DL + IHDC]$

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor
 FF=Fixed Fee
 SBO = Services by Others

Total Compensation = DL +IHDC+OH+FF+SBO

Specific Rate (Pay per element)

Lump Sum _____

5. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

With Retainage

- a) **For the first 50% of completed work**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work is completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER

6. The recipient shall not discriminate on the basis on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).

7. To submit approved form BC 775 (Exhibit C) and BC 776 (Exhibit D) with this AGREEMENT.

III. It is Mutually Agreed,

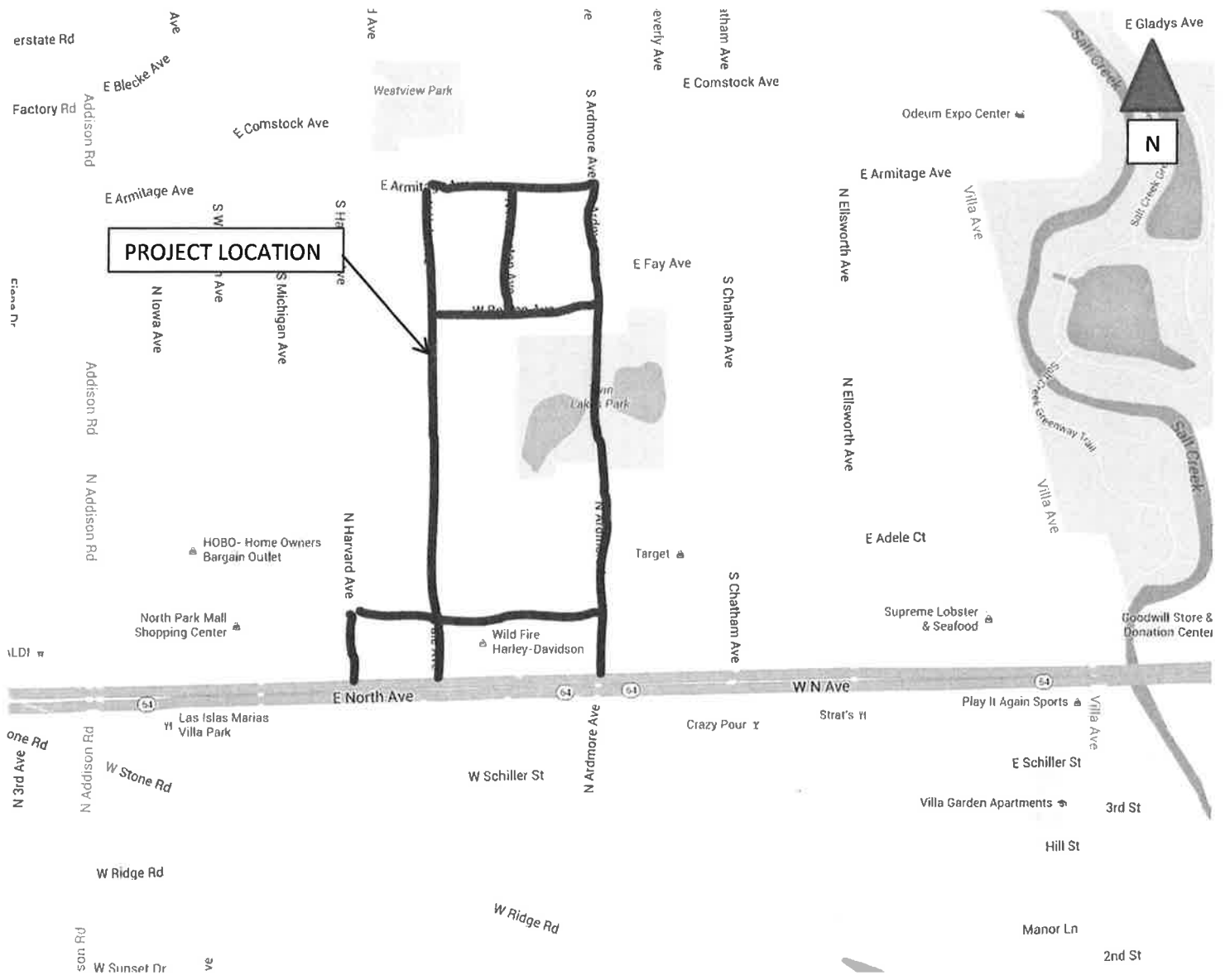
1. That the ENGINEER and the ENGINEER's subcontractors will maintain all books, documents, papers, accounting records and other evidence pertaining to cost incurred and to make such materials available at their respective offices at all reasonable times during the AGREEMENT period and for three years from the date of final payment under this AGREEMENT, for inspection by the STATE, Federal Highway Administration or any authorized representatives of the federal government and copies thereof shall be furnished if requested.
2. That all services are to be furnished as required by construction progress and as determined by the LA employee In Responsible Charge. The ENGINEER shall complete all services specified herein within a time considered reasonable to the LA, after the CONTRACTOR has completed the construction contract.
3. That all field notes, test records and reports shall be turned over to and become the property of the LA and that during the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That this AGREEMENT may be terminated by the LA upon written notice to the ENGINEER, at the ENGINEER's last known address, with the understanding that should the AGREEMENT be terminated by the LA, the ENGINEER shall be paid for any services completed and any services partially completed. The percentage of the total services which have been rendered by the ENGINEER shall be mutually agreed by the parties hereto. The fixed fee stipulated in numbered paragraph 4d of Section II shall be multiplied by this percentage and added to the ENGINEER's actual costs to obtain the earned value of work performed. All field notes, test records and reports completed or partially completed at the time of termination shall become the property of, and be delivered to, the LA.
5. That any differences between the ENGINEER and the LA concerning the interpretation of the provisions of this AGREEMENT shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA, and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
6. That in the event the engineering and inspection services to be furnished and performed by the LA (including personnel furnished by the ENGINEER) shall, in the opinion of the STATE be incompetent or inadequate, the STATE shall have the right to supplement the engineering and inspection force or to replace the engineers or inspectors employed on such work at the expense of the LA.

7. That the ENGINEER has not been retained or compensated to provide design and construction review services relating to the contractor's safety precautions, except as provided in numbered paragraph 1f of Section I.
8. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- (a) Publishing a statement:
 - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (A) abide by the terms of the statement; and
 - (B) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
 - (b) Establishing a drug free awareness program to inform employees about:
 - (1) the dangers of drug abuse in the workplace;
 - (2) the grantee's or contractor's policy of maintaining a drug free workplace;
 - (3) any available drug counseling, rehabilitation and employee assistance program; and
 - (4) the penalties that may be imposed upon an employee for drug violations.
 - (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
 - (d) Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
 - (e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by, any employee who is convicted, as required by section S of the Drug Free Workplace Act.
 - (f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
 - (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.
9. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT-assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination this AGREEMENT or such other remedy as the LA deems appropriate.



LOCATION MAP

Village of Villa Park

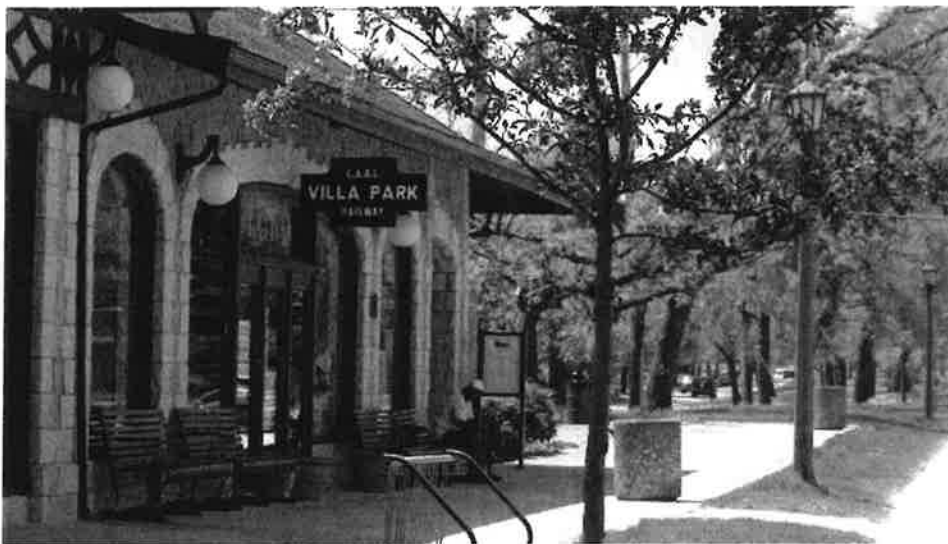
Various Sidewalks

Section Number 13-00092-00-SW



January 14, 2016

TWIN LAKES SUBDIVISION SIDEWALK IMPROVEMENTS PHASE III ENGINEERING



SUBMITTED TO
 JEREMIE LUKOWICZ, P
 VILLAGE OF VILLA PAR
 PUBLIC WORKS DEPARTMEN
 ENGINEERING DIVISIO
 20 S. ARDMORE AVENU
 VILLA PARK, IL 6018

SUBMITTED BY
 W. DANIEL CROSSON, P
 CHRISTOPHER B. BURK
 ENGINEERING, LTD
 9575 WEST HIGGINS ROAD, SUITE 60
 ROSEMONT, IL 6001
 dcrosson@cbbel.com

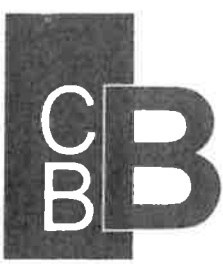


CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 W. Higgins Road | Suite 600 | Rosemont, IL 60018
T: 847.823.0500 | F: 847.823.0520 | cbbel.com

Office locations: Rosemont, Morris, New Lenox and Peoria
Licensed: Illinois





CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 West Higgins Road Suite 600 Rosemont, Illinois 60018 TEL (847) 823-0500 FAX (847) 823-0520

January 14, 2016

Village of Villa Park
Public Works Department
Engineering Division
20 S. Ardmore Avenue
Villa Park, IL 60181

Attention: Mr. Jeremie Lukowicz, PE, Assistant Village Engineer

Subject: Request for Proposal
Twin Lakes Subdivision Sidewalk Improvements
Phase III Engineering

Dear Mr. Lukowicz:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to submit one original of our qualifications/proposal, including our proposed phase III engineering costs, as requested.

CBBEL is committed to provide services with the qualified and experienced personnel as described in this submission. We believe that we have the depth of personnel, the breadth of experience, and credentials to successfully undertake work.

CBBEL has successfully provided construction engineering services for similar improvement programs for various clients in the Chicagoland area. We have designated W. Daniel Crosson, PE, Vice President and Head, Construction Engineering Department as the Project Manager and Kevin Wilson, PE as the person responsible for day-to-day contact with the Village of Villa Park during the course of work.

If you have any questions or need any additional information, please do not hesitate to contact me or Dan Crosson at 847-823-0500.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Burke', written over a light blue horizontal line.

Christopher B. Burke, PhD, PE, D.WRE, Dist.M. ASCE
President



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

December 10, 2015

Subject: PRELIMINARY ENGINEERING
Consultant Unit
Prequalification File

Christopher Burke
BURKE, CHRISTOPHER B. ENG., LTD.
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018

Dear Christopher Burke,

We have completed our review of your "Statement of Experience and Financial Condition" (SEFC) which you submitted for the fiscal year ending Dec 31, 2014. Your firm's total annual transportation fee capacity will be \$64,800,000.

Your firm's payroll burden and fringe expense rate and general and administrative expense rate totaling 125.26% are approved on a provisional basis. The actual rate used in agreement negotiations may be determined by our Office of Quality Compliance and Review in a pre-award audit.

Your firm is required to submit an amended SEFC through the Engineering Prequalification & Agreement System (EPAS) to this office to show any additions or deletions of your licensed professional staff or any other key personnel that would affect your firm's prequalification in a particular category. Changes must be submitted within 15 calendar days of the change and be submitted through the Engineering Prequalification and Agreement System (EPAS).

Your firm is prequalified until December 31, 2015. You will be given an additional six months from this date to submit the applicable portions of the "Statement of Experience and Financial Condition" (SEFC) to remain prequalified.

Sincerely,
John Baranzelli
Acting Bureau Chief
Bureau of Design & Environment

SEFC PREQUALIFICATIONS FOR BURKE, CHRISTOPHER B. ENG., LTD.

CATEGORY	STATUS
Special Services - Electrical Engineering	X
Environmental Reports - Environmental Assessment	X
Special Services - Mechanical	X
Special Studies - Traffic Signals	X
Special Services - Sanitary	X
Hydraulic Reports - Waterways: Complex	X
Special Studies - Feasibility	X
Highways - Roads and Streets	X
Hydraulic Reports - Pump Stations	X
Special Services - Construction Inspection	X
Hydraulic Reports - Waterways: Typical	X
Special Studies - Location Drainage	X
Special Studies - Pump Stations	X
Environmental Reports - Environmental Impact Statement	X
Special Services - Surveying	X
Special Studies - Traffic Studies	X
Special Studies - Lighting: Typical	X
Special Studies - Safety	X
Highways - Freeways	X
Location Design Studies - New Construction/Major Reconstruction	X
Special Studies - Lighting: Complex	X
Location Design Studies - Reconstruction/Major Rehabilitation	X
Location Design Studies - Rehabilitation	X
Structures - Highway: Simple	X
Special Services - Landscape Architecture	X
Special Studies - Signal Coordination & Timing (SCAT)	X
Structures - Highway: Typical	X

X PREQUALIFIED

A NOT PREQUALIFIED, REVIEW THE COMMENTS UNDER CATEGORY VIEW FOR DETAILS IN EPAS.

S PREQUALIFIED, BUT WILL NOT ACCEPT STATEMENTS OF INTEREST

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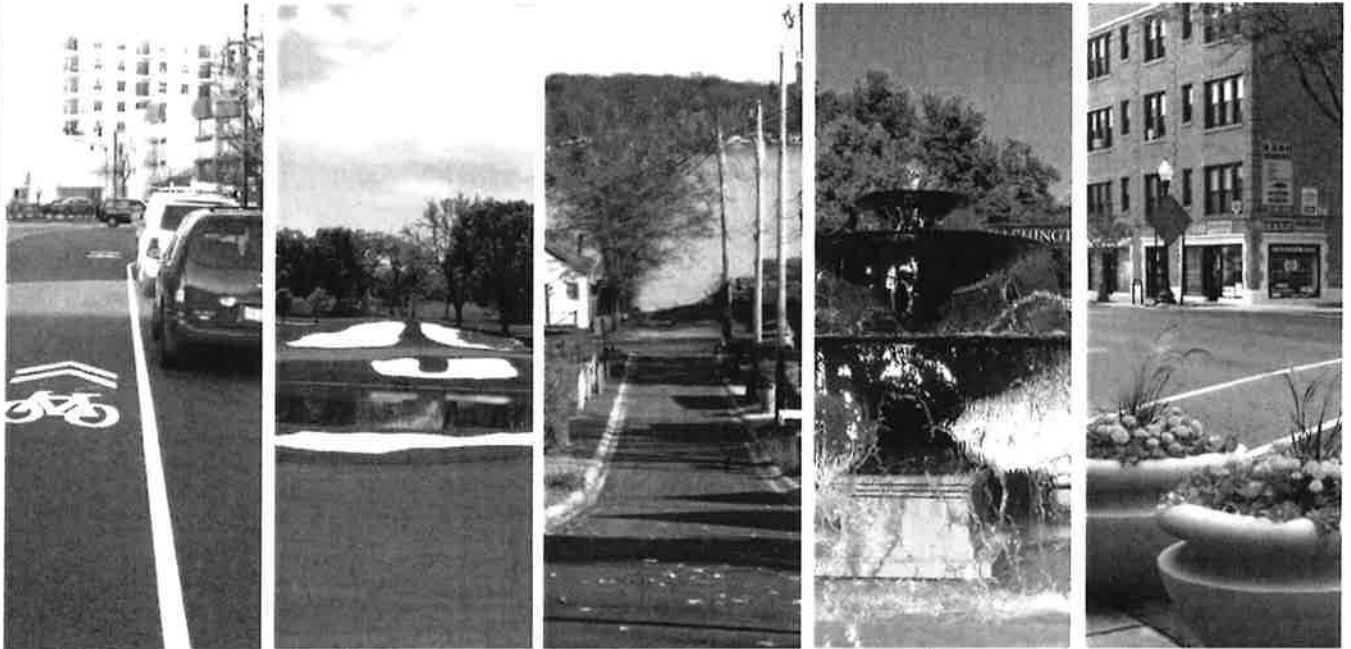
TAB 1	COMPANY PROFILE
TAB 2	PROJECT UNDERSTANDING UNDERSTANDING OF THE ASSIGNMENT APPROACH TO WORK ASSIGNMENT SCOPE OF WORK FOR A TYPICAL PROJECT
TAB 3	PROJECT TEAM ORGANIZATIONAL CHART RESUMES
TAB 4	SIMILAR PROJECT EXPERIENCE PROJECT FACT SHEETS REFERENCES
TAB 5	COST PROPOSAL



TAB 1
COMPANY PROFILE



COMPANY PROFILE



FIRM HEADQUARTERS


Christopher B. Burke Engineering, Ltd. (CBBEL)
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
T: 847.823.0500 | F: 847.823.0520
cbbel.com

83 LICENSED
PROFESSIONALS

TOTAL
STAFF **197**

29 YEARS IN
BUSINESS

CBBEL is unique among consulting engineering and surveying firms in that we are a full-service company that can comprehensively meet the needs of both private and public sector clients. Guided by founder and President Christopher B. Burke, our "family business" corporate philosophy allows for a level of personal service that provides peace of mind. Our Illinois based staff of 197 and expansive list of specializations—civil, municipal, transportation, water resource, mechanical, structural, construction, traffic, environmental engineering and environmental resource services—provide professionalism and a depth of expertise that promote project success.

 **Christopher B. Burke Engineering, Ltd.**



Christopher B. Burke, PhD, PE

RESOURCES

Having received his doctoral degree in civil engineering from Purdue University, CBBEL President Christopher B. Burke embraces education and encourages continued learning among his employees. Our staff includes four PhDs, 79 licensed professional engineers, a team of licensed professional land surveyors, a licensed structural engineer, and a licensed landscape architect. Additionally, 3 employees are LEED accredited professionals, 3 are professional traffic operations engineers (PTOE), and 4 have received the designation of Diplomate Water Resource Engineer (D.WRE). Twenty-four staff are certified floodplain managers (CFM) and 18 are certified professionals in erosion and sediment control (CPESC).

Through leadership positions and active membership in a variety of professional associations and university involvement, CBBEL is able to deliver cutting-edge technology and techniques as they emerge. The outcome is a context-sensitive approach that rejects out-dated cookie-cutter remedies and instead provides the best solution. Staff take part in national and local organizations including the American Society of Civil Engineers (ASCE), the American Council of Engineering Companies, the American Public Works Association, the Illinois Association of Environmental Professionals, the Illinois Association for Floodplain and Stormwater Management, the Society of American Military Engineers, the American Academy of Water Resource Engineers, Chicago Wilderness Corporate Council, the Society of Ecological Restoration, Western Society of Engineers, the Society of Wetland Scientists, the Irish Engineers and Contractors, and the Illinois Road and Transportation Builders Association (IRTBA) to name a few.

The Burke Group of Companies, which includes CBBEL, has been recognized as one of Engineering News Record's **Top 500** Design Firms, currently ranking 171st in the country.

Given CBBEL's commitment to hiring exceptional personnel, prioritizing client relationships, and valuing education, it's not surprising that we have received numerous prestigious awards from the American Council of Engineering Companies of Illinois, the American Public Works Association, the Illinois Section of the American Society of Civil Engineers, the Illinois Chapter of the American Planning Association, the Illinois Department of Transportation, and the Illinois Tollway. We were honored with the 2003 Employer of the Year Award from the Women in Transportation Seminar and the Private Sector Employee Recognition Award from the ASCE Illinois Section in 1997, 2003, and 2009. In 2012, we received a Governor's Sustainability Award and an honorable mention in 2013.

Our resources are geographically distributed to create a network of effective and convenient service. Rosemont, Illinois, is home to our main office, while other Illinois locations include New Lenox, Morris and Peoria.

SERVICES

Since its founding in 1986 the size of our company and the complexity of our projects have grown. Today we provide not only design services, but also planning, preliminary engineering, permitting, and construction observation. We have successfully completed the design, permitting and construction of numerous major transportation and local municipal roadway projects, multi-use paths, bridges, flood control reservoirs, pump stations, embankments, water mains and water systems, storm sewers, and large open channels.

We have served as lead engineer on a variety of major municipal and county undertakings. As a full-service firm we also conduct water resource related studies, perform GIS services, environmental resource assessments, mitigation planning and permitting, and a myriad of traditional civil engineering functions.

ENR.com
Engineering News-Record

CHRISTOPHER B. BURKE
ENGINEERING, LTD.
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
T: 847.823.0500
F: 847.823.0520
cbbel.com

CBBEL has provided professional review services for municipalities, counties, and state agencies. Our experience includes the review of drainage, roadway, subdivision, sanitary sewer and mechanical engineering submittals prepared by third-party consultants for both private and public sector clients.

Our office prepares an impressive number of high-quality stormwater management studies and permit applications, having obtained more than 1,000 US Army Corps of Engineers Section 404 permits with accompanying IEPA water quality certifications, more than 500 Illinois Department of Natural Resources-Office of Water Resources floodway construction permits, and 450 Federal Emergency Management Agency Letters of Map Amendment and Letters of Map Revision.

Whether you require consulting for an individual project or the full service resources from one of our departments, you can rely on Christopher B. Burke Engineering, Ltd. to take the time to thoroughly understand your needs and partner with you to create innovative, cost-effective solutions. Diversification and flexibility are the keys to our successful, long-term relationships with a wide variety of clients, including municipalities, counties, townships, sanitary districts and drainage districts throughout the Chicagoland area. We have unique knowledge and experience with various funding programs available to our County and Municipal clients from the grant writing stage to the design procedures required, as well as record keeping and funding reporting, giving our clients an added service not easily found in the engineering industry.

GREEN INITIATIVES

CBBEL is at the forefront of sustainability/green initiatives and is a corporate leader when it comes to implementation. Our Rosemont headquarters has a green roof, an aggressive composting/recycling program, and a long range plan to implement other energy saving devices courtesy of our company's sustainability committee.

In 2012 and 2013 (Honorable Mention), CBBEL received the Governor's Sustainability Award for achievements in improving the environment. The company received the award for our significant achievements in protecting the environment, helping sustain the future, and improving the economy. In 2014, CBBEL was selected as one of IRTBA's Green Industry Award recipients and also received a Conservation and Native Landscaping Award from Chicago Wilderness.



One of the sustainability efforts the firm was honored to include our Bike to Work Program in which CBBEL provides mileage reimbursement, changing facilities and bicycle storage. Nearly 150 employees (from all of the Burke Group companies) have participated in the program and more than 272,000 miles have been commuted on bike.

We also have been recognized by the League of American Bicyclists as a "Platinum" level Bicycle Friendly Business. The Bicycle Friendly Business recognizes employer's efforts to encourage a more bicycle-friendly atmosphere for employees and clients and honors innovative bike-friendly efforts. **CBBEL is the only Illinois firm to be awarded Platinum status and is one of the few Midwestern non-bike related businesses to be awarded Gold status or higher.**

CBBEL also has partnered with Enterprise CarShare, Chicago's only local car sharing company, to provide vehicles to employees. We are the first Enterprise CarShare corporate member to reduce its own vehicle fleet by more than 50 percent and in turn use the CarShare vehicles. Employees have access to three CarShare cars and CBBEL recently installed CarShare software in two of their own fleet vehicles. We also have installed 2 electric car charging stations on the exterior of the main building in Rosemont.

CHRISTOPHER B. BURKE
ENGINEERING, LTD.
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
T: 847.823.0500
F: 847.823.0520
cbbel.com

TAB 2
PROJECT UNDERSTANDING





Google Earth Image

UNDERSTANDING OF ASSIGNMENT

Christopher B. Burke Engineering, Ltd. (CBBEL) understands the assignment to include all necessary Phase III Construction Engineering services required for the Twin Lakes Sidewalk Improvement project.

The project is located in the Twin Lakes Subdivision of the Village of Villa Park. The roads included for proposed improvements include: Harvard Avenue, Yale Avenue, Princeton Avenue, Ardmore Avenue, Wildfire Drive, Belden Avenue, and Armitage Avenue. The improvements are bounded by FAU 307 (IL-64) to the south, Ardmore Avenue to the east, Armitage Avenue to the north, and Harvard Avenue to the west. The gross length of the improvement is 1.96 miles.

This primary purpose of this project is to construct a new sidewalk at areas where sidewalk does not exist. In order to complete this work it may be necessary to remove and relocate culverts, remove landscaping elements, regrade parkways, and remove and replace driveway and roadway areas as necessary. This work when completed shall provide a safer walking route to schools and improve pedestrian access. A preliminary review of the plans shows that some areas will require removal of existing

landscaping elements such as brick pavers, fences, trees, and shrubs. Past experience similar to this scope of work has taught CBBEL that advanced coordination with residents regarding this work can reduce resident complaints and lead to a more successful completion of the project. Many residents have likely installed these landscaping elements themselves, and feel that the Village is intruding on their property. CBBEL can assist the Village to provide coordination of the removal of these features so that these materials are salvaged as much as possible, and we can help educate the public regarding the right of way line and where their property limits are located.

CBBEL will be directly responsible to the Villa Park Division of Public Works and will work with any Village Departments, community groups, adjacent property owners, and outside agencies involved with the project to ensure that the project is moving forward properly.

FIRM OVERVIEW

CBBEL's overall philosophy for completing successful construction projects is monitoring the contractor's progress, anticipating unforeseen problems, and communicating with involved parties, whether that be Village employees, area businesses, or area residents. These things will help to insure that the project is completed on-time and the Village is constantly notified regarding the project cost.

Included in this proposal for the Twin Lakes Sidewalk Improvement project is our project experience related to Phase III - Resident Engineering services including construction staking, construction inspection, preparation of record drawings, and preparation of pay estimates, change orders, and other project related documentation. Our Resident Engineering experience includes various types of construction projects including, but not limited to roadway rehabilitation, sidewalk and ADA ramp construction, and a variety of utility improvements. We have included fact sheets for projects similar in scope, which can be found under **TAB 4**.

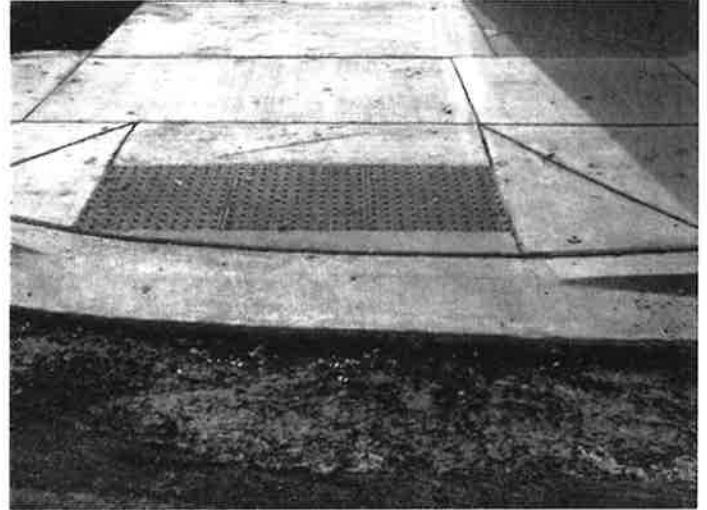
The key personnel designated in this proposal possess the skills and expertise to successfully complete this project as proposed. Our Construction Engineering Department is prequalified by IDOT for construction inspection and survey and is comprised of civil engineers, construction managers, and technicians. Our department of 21, including twelve professional civil engineers and three EITs, is familiar with the many facets of engineering that are required for public improvement projects. Our additional staff is well versed in the construction of civil engineering projects and most of our staff is certified by IDOT in one or several of the following areas:

- IDOT Documentation
- ICORS Training
- Mystic Database Training for RE Visuals
- Materials Management of Job Sites
- PCC Level I and/or II
- Bituminous Concrete Level I and/or II

Since the Twin Lakes Sidewalk Improvements project is being funded with Federal dollars, proper IDOT documentation for material is necessary to qualify for these funds. These courses allow our RE's to understand guidelines inspection and documentation which allows us to finalize and complete projects in a timely manner.

PROJECT APPROACH

CBBEL would like to highlight important issues which will be emphasized during the project. These issues combined with the scope of services outlined in the RFP illustrate a unique approach which will culminate with a successful project.



ADA POLICY

Since making the Village accessible is a major goal of any sidewalk project, the Village of Villa Park must construct ADA compliant infrastructure. The preliminary proposed plans do not break out elevations and slopes for each ADA crossing, therefore it will be necessary to design these according to existing conditions in the field before construction begins. CBBEL is familiar with the ADA Policy and members of our Team have attended recent seminars to keep up with the latest ADA Standards. We understand that it is the construction engineer's responsibility to insure that the Contractor is complying with all facets of the ADA policy. As part of proper ADA ramp construction, the resident engineer shall complete the following:

- Verify all slopes to the nearest tenth of a percent using a 2 foot electronic level.
- Measure all lengths and widths to the nearest 1/8".
- Verify that the ADA Tiles are from suppliers listed in the ADA Standards.
- Verify that the tiles are flush.
- Verify that the curb and pavement do not have an excessive "lip".

Finally, the resident engineer must supervise any corrective action by the contractor that may be required as a result of the QC/QA inspections and re-check each area when all deficiencies have been corrected.

CBBEL will also work with the contractor to maintain a route for pedestrians while the work is being completed at the corners. If a route cannot be maintained, CBBEL will assist the contract in determining a detour for the pedestrians.

COORDINATION WITH VILLAGE DEPARTMENTS

Prior to the start of construction, the resident engineer must review the plans and contact affected Village Departments. This project will require coordination with Public Works regarding installation of new sewers, adjustment of frames and water service boxes, and possible relocation of underground utilities in conflict with the sidewalk. It is essential to review the plans with these Departments to insure that all current standards are being met and all required work has been included in the project. If changes are required, they can be incorporated into the plans prior to construction and not impede the progress of the work.

COORDINATION WITH UTILITIES

The resident engineer shall coordinate with the owners of the utilities that need to be adjusted or relocated as a result of the sidewalk construction. The Village has listed utility conflicts in the proposed plans which include the following:

- AT&T: Relocate telephone risers, relocated guy wire
- ComEd: Relocate electrical boxes, relocate two power poles, adjust one handhole
- Comcast: Various buried facilities in parkway that may be in conflict
- Nicor: Various buried facilities in parkway that may be in conflict

CBBEL can assist the Village to coordinate relocation of these utilities in a timely manner. The contractor is not entitled to extra money due to any utility delay, but in most scenarios they will not be charged working days due to delays caused by utility relocations. CBBEL will work with the Village, utilities, and contractor to minimize disruption. CBBEL has a relationship with Sudud Mahmoud, the current IDOT Bureau Chief, Utility Section and we can coordinate any locates within the ROW with him to help prevent delays.

Utility frames cannot be located in the tile area of the ADA ramp and cannot block the entire sidewalk and/or ramp. It will be critical to identify these adjustments and/or relocations as soon as possible, so the utility companies can complete their work. This will include any Village water, sewer, and lighting structures and electric, gas, cable, etc. During past sidewalk projects, this can be effectively completed by focusing on this task on two occasions: when reviewing plans before the start of construction, and at the time of construction layout.

TRAFFIC CONTROL AND PROTECTION

Traffic control, as required, will need to be monitored on a regular basis to ensure that the traffic control devices are properly installed and operating properly. CBBEL shall perform the following:

- Perform one detailed daytime inspection per week and two detailed nighttime inspections per month. These inspections shall be recorded on IDOT form BC 726 – Traffic Control Inspection Report (or a format acceptable to the Village).
- In addition, the Resident Engineer will drive through the jobsite daily and document the drive through in the project diary.

If major deficiencies are observed, the Resident Engineer will notify the contractor immediately and insure that the contractor takes the appropriate actions as outlined in the contract documents.

CONSTRUCTION ISSUES

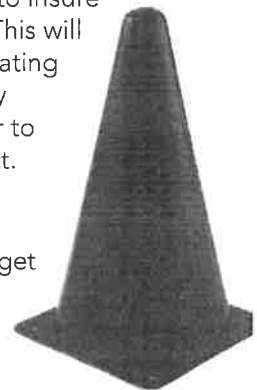
PRE-CONSTRUCTION:

- Review the contractor's schedule for compliance with any milestones and/or restrictions found in the contract documents. CBBEL will review the schedule for constructability to insure that the work is being completed in a logical sequence.
- Prepare all project files prior to the start of construction. This shall include reviewing all applicable construction inspector's checklists found in IDOT's Construction Manual to anticipate any issues that may arise during construction.
- Review the plans and specifications and identify any potential issues or conflicts that can be resolved prior to construction. This will assist in avoiding unnecessary delays and change orders. CBBEL would assign a task to do a QC review of the plans before any work begins.

ROADWAY CONSTRUCTION:

- Monitor and track the contractor's actual progress versus his schedule on a weekly basis to insure they will complete the work on-time. This will assist the Resident Engineer in anticipating any potential conflicts that could delay the work and work with the Contractor to expedite the completion of the project.

CBBEL is committed to completing the required services on time and within budget and will develop a quality control/quality assurance plan to ensure the timely completion of contract documents free of errors and omissions.



SCOPE OF WORK FOR A TYPICAL PROJECT

CBBEL will perform or be responsible for the performance of the following services in connection with this project. CBBEL shall furnish or cause to be furnished qualified engineers, construction observers and/or technical personnel to perform the following services including, but not limited to, the following tasks:

TASK 1 – PRE-CONSTRUCTION SERVICES:

1. Attend a pre-construction conference with the contractor, Village, and other parties.
2. Attend any public information meetings with the contractor, Village, and other parties.
3. Obtain from the contractor a list of proposed suppliers and subcontractors. Make recommendations to the Village regarding the suitability of the subcontractors for the proposed work.
4. Review the construction schedule submitted by the contractor for compliance with the contract.
5. Review the plans for constructability and potential conflicts. Complete preliminary design and layout of ADA corners at areas where existing grades may make it difficult to build the sidewalk according to IDOT standards.

TASK 2 – CONSTRUCTION OBSERVATION: CONSTRUCTION OBSERVATION

1. Observe the progress and quality of the executed work. Determine if the work is proceeding in accordance with the Contract Documents. CBBEL shall keep the Village informed of the progress of the work, guard the Village against defects and deficiencies in the work, and advise the Village of all observed deficiencies of the work and disapprove or reject all work failing to conform to the Contract Documents.
2. Provide extensive on-site observations of the work in progress and field checks of materials and equipment through a Resident Engineer and Inspectors (as necessary), who shall:
 - Serve as the Village's liaison with the contractor working principally through the contractor's field superintendent.
 - Be present whenever the contractor is performing work on-site, associated with the project.
 - Attend all construction conferences. Arrange a schedule of progress meetings and other job conferences as required. Maintain and circulate copies of records of the meetings.
 - Review contractor's progress on a bi-weekly basis and update the progress schedule. Compare

actual progress to the contractor's approved schedule. If the project falls 14 calendar days behind schedule, work with the contractor to determine the appropriate course of action to get back on schedule. The contractor is required to submit a revised schedule for approval prior to further payments being made.

- Maintain orderly files of correspondence, reports of job conferences, shop drawings and other submissions, reproductions or original contract documents including all addenda, change orders and additional drawings issued subsequent to the award of the contract.
 - Record names, addresses and telephone numbers of all contractors, subcontractors, and major material suppliers.
3. Determine if the project has been completed in accordance with the contract documents and if the contractor has fulfilled all obligations.
 4. Except upon written instruction of the Village, the Resident Engineer or Inspector shall not authorize any deviation from the Contract Documents.
 5. Alert the Contractor's field superintendent when materials or equipment are being installed before approval of shop drawings or samples, where such are required, and advise the Village when it is necessary to disapprove work as failing to conform to the Contract Documents.
 6. The Resident Engineer provided by CBBEL will be familiar with the frequency of QA testing as required by the Village or IDOT and outlined in their Project Procedures Guide. The Resident Engineer will coordinate the QA material testing and review all required reports submitted by both the contractor's QC sub-contractor and Village's QA consultant for compliance with the project specifications.



TRAFFIC CONTROL INSPECTION

Perform barricade checks as outlined in Section 700: Work Zone Traffic Control of IDOT's Construction Manual. At a minimum, CBBEL shall perform the following:

- One detailed daytime inspection per week and two detailed nighttime inspections per month. These inspections shall be recorded in a format in accordance with Village policy or Form BC 726, Traffic Control Inspection Report.
- In addition, the Resident Engineer will drive through the jobsite daily and document the drive through in the project diary.
- Also, during any proposed winter shutdowns, two drive-throughs per week will be performed.

If major deficiencies are observed, the Resident Engineer will notify the contractor immediately and insure that the contractor takes the appropriate actions as outlined in the contract documents.

CONSTRUCTION DOCUMENTATION

1. Keep an inspector's daily report book in the Village's format, or other required format appropriate for the project, recording hours on the job site, weather conditions, general and specific observations, daily activities, quantities placed, inspections, decisions, and list of visiting officials, as outlined in IDOT's Construction Manual. **Use ICORS to document the diary and daily quantities for any projects including IDOT or Federal Funding.**
2. Prepare pay estimates and change orders. Review applications for payment with the Contractor for compliance with established submission procedure and forward them with recommendations to the Village. **Use ICORS to process pay estimates and change orders for any projects including IDOT or Federal Funding.**
3. Obtain and document all material inspection received from the Contractor as outlined in the Project Procedures Guide of IDOT's Construction Manual. **Use MISTIC to document any materials for any projects including IDOT or Federal Funding.**



TASK 3 – SURVEY: LAYOUT VERIFICATION

1. Verify initial geometric controls.
2. Perform periodic measurements to assure the contractor's construction staking and construction layout is accurate per plans.
3. Perform before and after cross sections of earth excavation to verify quantities as required by IDOT. (This will be required for the Twin Lakes Subdivision sidewalk project.)

TASK 4 – UTILITY COORDINATION:

1. Assist the Village before the project begins to have all utilities in conflict with the proposed sidewalk relocated. Communicate with the IDOT Utility Section to issue permits in a timely manner.
2. Cooperate with the contractor in dealing with the various local agencies and utility companies having jurisdiction over the Project in order to complete service connections to public utilities and facilities.
3. During construction, review contractor layout and compare with JULIE utility markings to identify conflicts that have not been relocated. Propose redesign of sidewalk construction when possible, or communicate additional utility relocation with each utility company.

TASK 5 – PROJECT CLOSEOUT:

1. CBBEL will review and verify the accuracy of the contractor's record drawings. During construction, the CBBEL Resident Engineer will keep diligent records of changes to verify contractor accuracy.
2. Prior to final inspection, submit to the Contractor a list of observed items requiring correction and verify that each correction has been made.
3. Conduct final inspection with the Village and prepare a final list of items to be corrected.
4. Verify that all items on the final list have been corrected and make recommendations to the Village concerning acceptance.

TAB 3
PROJECT TEAM



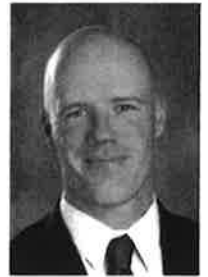
PROJECT TEAM

CBBEL is a multi-disciplined firm that is dedicated to providing our clients with the personal attention required of constructing projects of this scope. We are committed to providing the Village of Villa Park with a quality product, which meets the Village's schedule and budget constraints, when the project is complete. For this project, CBBEL will provide the following professionals as the project team, whose resumes can be found in this section:



W. DANIEL CROSSON, PE will be the Project Manager and team leader and will oversee the daily activities of the Resident Engineer and be available whenever the work requires. Mr. Crosson is a Professional Engineer, Vice President and Head of the Construction Engineering Department leading a staff of 31 engineers and technicians. Mr. Crosson is the CBBEL liaison for Elmwood Park and Glendale Heights overseeing all phases of engineering for these clients. He also administers all CBBEL's Phase III contracts for CDOT and ISTHA. He has previously provided Resident Engineering services to numerous public and private sector clients including IDOT, ISTHA and the Capital Development Board. He is also the Project Manager for Task Order contracts involving Construction Management services for various Phase III projects for CDOT and all CBBEL Local Agency Projects.

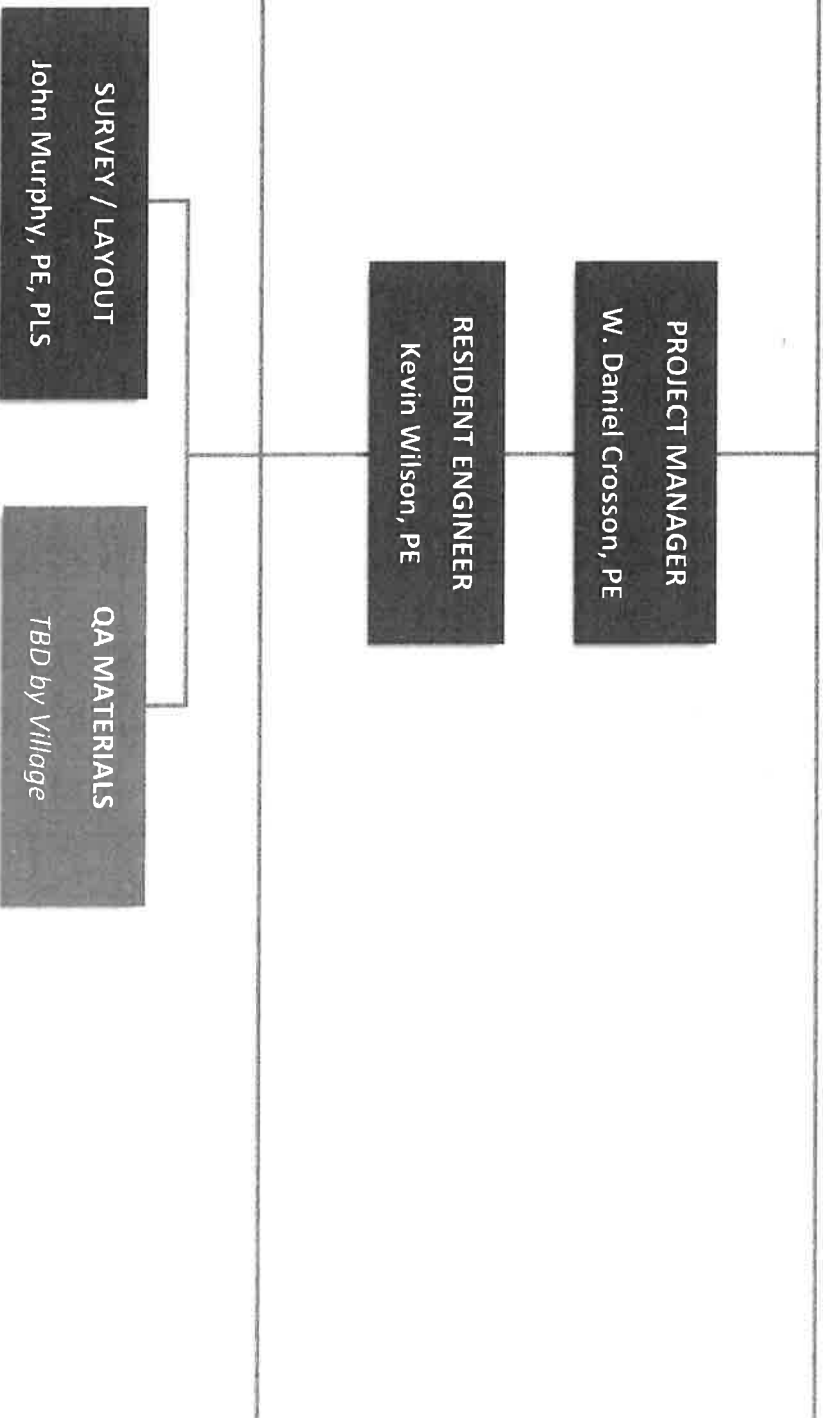
KEVIN WILSON, PE will serve as the Resident Engineer for this project. With over 13 years of experience in construction engineering, Mr. Wilson has worked on numerous rehabilitation projects including sewer and water main improvements. He is proficient in documentation for various types of funding including LAPP, ARA, MFT, ERP, IEPA loan funding, and CDBG grants. Notable recent projects include 3 miles of PCC pavement, lane additions, storm sewer, traffic signals, and other work as the assistant Resident Engineer for IDOT on IL Route 47 in Yorkville (\$30M construction contract value); City of Chicago ADA rehabilitation projects in the South/Far South and North areas to replace over 375 deficient ADA ramp intersections previously constructed; approximately 3 miles of resurfacing Book Road in Naperville using STP and Local funding; approximately 2 miles of resurfacing 95th Street in Naperville using ARA funding; the reconstruction and resurfacing of 3.5 miles of various streets in Algonquin using LAPP funding.



JOHN MURPHY, PE, PLS is the Survey Department Head within the Civil Engineering Department. He currently manages all office personnel and four field crews. The Survey Department is responsible for the collection of all pertinent field and record data suitable for the completion of Phase I and Phase II surveys. The survey department provides layout for all of our Phase III contracts. Some clients include IDOT, Chicago Water Partners, LCDOT and Will County. Under his management the CBBEL Survey Staff has provided state of the art survey procedures for highway, roadway and infrastructure for all levels of projects. His staff is fully trained and experienced in all facets of the survey profession. In addition, the department is well versed in GPS.

We believe that by providing a well-balanced Phase III Engineering team, CBBEL will be able to provide the City with a quality project in the most cost effective manner.

Twin Lakes Subdivision Sidewalk Improvements



■ CBBEL Employee

■ Subconsultant



Professional Engineer and Head of the Construction Engineering Department leading a staff of 20 engineers and technicians. Project Manager for all construction observation and construction inspection projects, and oversees CBBEL's Phase III contracts for CDOT, Illinois Tollway and IDOT. CBBEL liaison with Algonquin, Chicago Ridge, Elmwood Park, Glendale Heights, Hawthorn Woods, Lombard, Oakbrook Terrace, Rolling Meadows, and Wilmette. Previously provided Resident Engineering services to numerous public and private sector clients, including IDOT, Illinois Tollway and the Capital Development Board. FEMA Project Officer for Hurricane Katrina and Hurricane Rita Reimbursement.

TRANSPORTATION

Retaining Wall, Noise Wall and Drainage Improvements, Illinois Tollway: This project involved construction of retaining wall, noise walls and drainage improvements along I-90 from Arlington Height Rd to Oakton St. The project included performance based retaining walls, which required design review and coordination with Tollway and utilities. As Resident Engineer daily duties included overseeing construction observation activities, coordination with adjacent contracts, facilitating meetings and coordination of materials inspection. Other duties included contract administration and preparation of change orders and pay estimates.

I-294 Northbound Exit Ramp at Balmoral Avenue: Project Manager for all Phase III services required during the construction of exit ramp and reconfiguration of existing southbound entrance ramp. Supervised the Resident Engineer and subconsultant's staff. Coordinated all MOT changes on I-294 and various nighttime lane closures during the project. Construction was accomplished utilizing staged MOT northbound and southbound on I-294. All lane restrictions required on I-294 to facilitate construction tasks (beam removal and replacement, existing bridge demolition etc.) were restricted to 8pm to 5am.

I-80 Resurfacing (Harlem Avenue to I-294), IDOT: Project Manager for the resurfacing of I-80. This project was constructed using ARRA funds, therefore, all documentation and material inspections were completed in accordance with federal guidelines. The project included HMA surface removal, Class D pavement patching, resurfacing with polymerized HMA SMA binder and surface courses, placement of HMA binder and surface (Mix D) for shoulders and ramps, in-laid pre-formed plastic striping, surveillance loops, and all other miscellaneous items necessary to complete the work. The bridge work included deck patching, expansion joint replacement, and sealing of the concrete deck. In addition, the ramp from I-80 East to I-57 North included reconstruction of the shoulder, embankment, and ramp lighting upgrades.

Contract R-06-5346, Illinois Tollway: Project Manager/Resident Engineer on a maintenance project involving nine bridges on the Tri-State Tollway (I-294). Work included joint repair, bridge deck patching, barrier wall and noise wall repairs, and latex concrete overlays at Northbound Electric Avenue and Southbound Butterfield Road. The overlays utilized staged traffic in five phases, all other work was completed at night between 9:00pm and 5:00am. Concrete bridge deck repairs utilized Tollway PP-5 concrete mixed on site with a 3-hour cure time. Bridge joint repairs utilized a partial depth Delcrete system. Contract was awarded Bridge Contract of the Year-Rehabilitation by Illinois Tollway. Construction Cost \$3,500,000.

Contract R-06-5387, Illinois Tollway: Project Manager for Task Order contract involving Construction Management services for various Phase III projects. Projects completed to date include RR-05-5350 Bridge Repairs for Various Structures along the Reagan Memorial Tollway (I-88) and RR-06-5465 Reagan Memorial Tollway (I-88) Resurfacing. Ongoing projects include RR-06-9955 Reagan Memorial Tollway (I-88) Pavement Marking and I-05-5369 I-90 and IL 173 Interchange Construction.

FAI-90/94 (Dan Ryan Expressway) at 33rd Street, Bridge Superstructure Replacement, CDOT: Project Manager for Phase III Services. Project includes demolition of the existing deck, structural steel, pier caps and abutments; then installation of reinforced concrete abutments, pier caps, structural steel, reinforced concrete deck and parapets, lighting and signalization. Work coordinated with IDOT, CTA and ComEd. Construction cost ~\$6,500,000.

McLean Blvd, Route 31 to Lancaster Circle; Stearns Road Corridor: Resident Engineer for the construction of cast-in-place box culverts, detention pond excavation, embankments, 16,000 SY of 10" PCC jointed pavement, traffic signals (2 each). This contract also involved the removal of an existing 60' timber trestle bridge owned by the CNRR, and replacement with a 120' single span

YEARS EXPERIENCE: 30
YEARS WITH CBBEL: 23

EDUCATION

Bachelor of Science, 1993
Civil Engineering, Construction Management, Illinois Institute of Technology

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.052377, 1998

PROFESSIONAL DEVELOPMENT

IDOT QC/QA Courses:

3-Day Aggregate for Mixtures

Level I Portland Cement
Concrete

Level II Portland Cement
Concrete

Level I Hot Mix Asphalt

Level II Hot Mix Asphalt

2 Day Nuclear Density

IDOT T2 Documentation
Reviewer

PROFESSIONAL AFFILIATIONS

Illinois Road & Transportation
Builders Association

AWARDS

2013 Recruiter of the Year,
Illinois Road & Transportation
Builders Association



thru girder steel bridge viaduct and the appurtenant retaining walls adjacent to the new railroad bridge abutments.

Stearns Road Corridor-Phase I, Wetland Mitigation, KDOT:

Project Manager for the construction of wetlands and detention ponds, as well as the embankment for the proposed roadway and bridge approach. Approximate contract value is \$4.1 million. This includes excavation of ponds and wetlands with the spoil material being used to make the proposed highway embankment. The volume of earth moved was 170,000 CY. Also included was the creation of approximately 30 acres of wetland/compensation storage/detention ponds.

2009-2010 Bond Improvements, Glendale Heights: Project Manager for the design and delivery of over \$9 million dollars of roadway improvements to various locations throughout the Village. Work included reconstruction, rehabilitation and resurfacing. Due to the retirement of the Public Works Director, CBBEL was relied upon to provide a seamless transition during the Village's recruitment and hiring process.

Rohlwing Road Reconstruction, Rolling Meadows: Full reconstruction of Rohlwing Rd from Industrial Ave to US 14 (Northwest Highway). The project included the complete removal of existing pavement and sub-base, construction of a new drainage system, new water main and services, 10" PCC pavement, retaining walls and a bike path. Due to extensive industrial traffic the project was staged over a two year period.

I-PASS Lanes at Plaza 19 (River Road/1-90E), Illinois Tollway: Project Manager for the switching of a manual lane to a multi-use I-PASS designated lane; as well as switching an automatic lane to a car only I-PASS designated lane. Included was the relocation of electrical components in the tunnel, concrete and asphalt pavement reconstruction, proposed signing, lighting improvements and median barrier wall modifications including drainage improvements.

Oak Creek Resurfacing, Lombard: Resident Engineer for improvements in the Oak Creek Industrial subdivision. Project included spot curb repairs, point repairs to storm sewers, signal modifications and the reconstruction of the intersection at Oak Creek and Tinley Road. The project was completed using MFT funding.

IL Route 58 at IL Route 62 Intersection Improvements, Rolling Meadows: Project Manager. Project consisted of new turn lanes, traffic signals and lighting in intersection with ADT of 70,000. Provided coordination with 8 private underground utilities within project limits and coordination with surrounding businesses.

I-PASS Lanes at Plaza 29 (I-294N) and Plaza 17 (I-90W), Illinois Tollway: Project Manager for the switching of an automatic lane to an I-PASS designated lane. The project included the relocation of electrical components in the tunnel, new egress for the tunnel, asphalt pavement reconstruction and median barrier wall modifications with drainage improvements. Daily duties included construction observation, coordination of material inspection and documentation of quantities. Other duties included shop drawing review, contract administration and preparation of change orders, extra work orders and pay estimates for the CSE's review.

Terrace View West Improvements, Lombard: Full reconstruction of six blocks of residential streets. The project included several components:

- New watermain and new services to all homes.
- Point repair of sanitary sewer and new sanitary services to all homes.
- Complete replacement of storm sewer system throughout project.
- Complete reconstruction of 3,800 LF of roadways.
- Extensive landscaping improvements throughout project.
- Primary contact with all impacted residents throughout project.
- Primary contact with grammar school located within project limits.

Balmoral Avenue Extension, Rosemont: The project included several components:

- Re-alignment and widening of the existing section of Balmoral Avenue
- Westward extension of Balmoral Avenue including a 250' bridge over the Wisconsin-Central RR.
- Two ramps for access to and from northbound Mannheim Road (US 45).
- Resurfacing of 5,000' of northbound Mannheim Road.
- Construction of an auxiliary lane for merging and re-alignment of existing ramp from northbound Mannheim Road to I-190 eastbound.

The project also included drainage improvements, street lighting system and relocation of an existing watermain. Coordination with IDOT, City of Chicago and O'Hare Airport was required due to their participation in funding.

Retaining Wall Replacement, I-294 North, Illinois Tollway: Project Manager for the removal and replacement of a retaining wall for the purpose of future widening of I-294. The proposed retaining wall was a T-Wall System and included a cast-in-place parapet wall.

Darmstadt Road Reconstruction, Hillside: Project Manager for full reconstruction of Darmstadt Road between IL 56 (Butterfield Rd) and Wolf Rd. Add lane and signalization improvement of IL 56, High Street to Taft Avenue in Berkley. Realignment and full reconstruction of 4,200 LF of roadway. Required extensive coordination with adjacent Hillside bottleneck projects.

22nd Street and Highland Avenue Intersection Improvements, Lombard: Reconstruction of a major intersection in the Village. Project highlights included 11,150 SY of 10" PCC pavement, five different traffic stages to facilitate pavement construction, installation of a new traffic signal with a master controller and interconnect to five intersections and updating the existing lighting system.

MFT Project Management: Supervised construction engineering for annual roadway projects in Bensenville, Chicago Ridge, Clarendon Hills, Crestwood, Darien, Elmwood Park, Forest Park, Palos Park, Rolling Meadows, and Rosemont.



Balmoral Avenue at I-294 Ramp Construction, Rosemont:

Construction of a 5-lane roadway section, reinforced concrete retaining walls, guard rails and roadway lighting. Work was coordinated with the Tollway during their reconstruction of the Central Tri-State Tollway.

York Road and I-88 Toll Plaza, Illinois Tollway: Nighttime resurfacing of the approaches to the Toll Plaza. Project included use of a polymer modified asphalt surface course.

Oak Park Avenue, Chicago Ridge: Resident Engineer for STP funded complete reconstruction of roadway including new drainage and lighting rehabilitation.

Eisenhower Lane Improvements, Lombard: Reconstruction of an arterial route through an industrial park.

Village of Chicago Ridge: Various reconstruction projects using CDBG Funds. Projects include storm sewer improvements, pavement widening and reconstruction.

STORMWATER/WASTEWATER MANAGEMENT**Lord Street Sewer Separation System, Phase 1 and Phase 2,**

Elgin: Construction Project Manager for the construction of a storm sewer separation system. Project consisted of separating the storm and sanitary sewers from a combined sewer system. A 96" RCP was jacked in place under US 20 to a new outfall of the storm sewer system into the Fox River. Upstream of the 200' long tunnel, the sewer pipe consisted of 430' of 10' by 5' box culvert, 2,600' of 66" RCP, 1,700' of 60" RCP and 1,100' of 48" RCP and appurtenant structures. In addition, all of the streets where storm sewers were installed were reconstructed with a concrete base course for all street patches, removal and replacement of the HMA pavement surface, curb and gutter replacement, 8" and 6" DIP water main improvements where necessary, and parkway restoration.

Westmore Woods Detention Improvements, Lombard:

Construction of a stormwater detention facility within an existing Lombard Park District Facility. Project highlights include 75,000 CY of excavation, installation of tideflex check valves to prevent backflow from combined sewer and construction of a bike path.

Special Assessment 13A and 13B, Palos Park: Installation of sanitary sewer and service lines throughout the west side of Village. Included were five lift stations, 6,400 LF of 12" and 15" sanitary sewers for the interceptor system, 41,000 LF of 8" sanitary sewer main line and 350 service stubs.

Louis Reservoir, DCDEC: Project included slurry wall construction, mass excavation 700,000 CY, reinforced concrete control structures, wetland plantings and coordination with a follow-up golf course contractor at the dump site for the Wood Dale Reservoir excavation.

Westwood Creek Dam and Pump Station, DCDEC, Addison:

Construction of a reinforced concrete dam and pump station. Project included diverting water from existing creek and constructing the dam through use of a cofferdam system.

Wayne Oaks Dam/Dogwood Park Modifications, DCDEC:

Expansion of an existing reservoir by construction of surcharged

embankment utilizing wick drains to bridge a peat bog. Project included extensive utility conflicts and wetland plantings.

Redmond Reservoir, Bensenville, IDNR: Expansion and modernization of a 70 acre storm detention reservoir and park site. Project highlights included the construction of two reinforced concrete spillways, excavation of 120,000 CY of material, wetland plantings and construction of pedestrian bridges.

WATER DISTRIBUTION

Special Assessment 96-1A and 96-1B, Palos Park: Installation of water main and service lines throughout the west side of Village. The project included a booster station, 13,000 LF of 16" transmission water main, 47,000 LF of 8" and 12" water mains and 350 service lines. The booster station also included a pressure sensing station (linked by telemetry to the booster station) to monitor the pressure at the west end of project area.

Williams Street Reservoir and Pump Station, Rosemont:

Construction of two underground 2.5 million reinforced concrete water tanks and a pump station. Project included construction of a soldier pile and reinforced concrete earth retention system with 120 tie backs. Required extensive coordination between the general contractor, excavator, and retention system contractor.



Civil Engineer experienced in construction engineering. Responsibilities include construction observation, project reports, documentation of quantities, review of contractor pay estimates, coordination of materials testing and inspection, site surveys and interaction with the contractor and client. Observed activities include roadway, water main, sanitary sewer, storm sewer, streambank stabilization, and retaining wall construction. Civil design experience consists of resurfacing and reconstruction projects which have included water main, storm sewer, sanitary sewer, and combined sewer design.

YEARS EXPERIENCE: 14
YEARS WITH CBBEL: 14

EDUCATION

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

CONSTRUCTION

FAP Route 326 (IL 47), IDOT, Yorkville: Providing Phase III assistance to IDOT Resident Engineer and Inspectors from 2012-2015. Serving as Assistant Resident Engineer responsible for construction documentation and observation; managed CBBEL and subconsultant staff that assisted with documentation and observation. Project included 5.04 km of pavement reconstruction, lane additions, storm sewer, traffic signals, and other work along IL Route 47 from just north of IL Route 71 continuing northerly to just north of US Route 34.

PROFESSIONAL REGISTRATION

Professional Engineer, IL,
062.059552, 2006

CERTIFICATIONS

Documentation of Contract
Quantities, IDOT, 13-0165

Material Management of
Job Sites, IDOT

ADA Ramp Program, CDOT: Resident Engineer responsible for construction engineering and observation of replacement of previously constructed ADA ramp locations not meeting CDOT ADA requirements. Far South Area included 12 ramp locations and South Area included 40 locations. CDOT QC/QA requirements for ADA ramp replacements were followed. Engineering responsibilities included submittal review, daily observation, measurement of quantities, pay estimates, coordination of material inspection, and documentation on CDOT's online web system.

PROFESSIONAL DEVELOPMENT

IDOT QC/QA Courses:

Mixture Aggregate Technician
Course

Book Road LAPP Resurfacing, Naperville: Resident Engineer responsible for construction engineering and observation for resurfacing of Book Rd from 111th St to 87th St. Roadway construction included 3.07 miles of partial-depth asphalt pavement. Resurfacing required approx. 2,700 tons of Polymer HMA N50 Leveling Binder and 6,300 tons of Polymer HMA N90 Surface Course "F" Mix. Additional roadway improvements included curb and gutter spot repairs, utility structure adjustments, and thermoplastic pavement markings. Sidewalk improvements were completed where necessary, including new sidewalk ramps meeting ADA standards at all roadway crossings within the project limits.

Bituminous Concrete Level 1
Technician Course

Bituminous Concrete Level 2
Technician Course

Portland Cement Concrete
Level 1

Road and Relief Sewer Project, Wilmette: Project Engineer and Resident Engineer responsible for construction engineering and observation including: verifying that contractor was in conformance with plans and specifications, preparing pay estimates and change orders. Project consisted of partial depth resurfacing of over 1.1 total miles of various residential roadway improvements. Utility construction included 600' of 18" sanitary sewer removal and replacement, 396' of 18" Relief Sewer, 768' of 24" Relief Sewer, 984' of 42" Relief Sewer, 14 Relief Sewer manholes and a 10' diameter junction chamber. Project was funded using MFT and Local Funds.

Troxler Nuclear Gauge Safety
Training Class

STTP-S11 Hot Mix Asphalt
Field Inspection

TT - ADA/PROWAG

Conway Park Sidewalk Improvements, Conway Park Owners Association, Lake Forest:

Resident Engineer responsible for construction engineering and observation including: verifying that contractor was in conformance with plans and specifications, preparing pay estimates and change orders. Project consisted of constructing a 36,000 SF sidewalk to provide a continuous walking path throughout the Conway Park office park corridor. Additional improvements included removing and replacing curb and gutter, improving handicap accessibility, pavement markings, and landscaping regarding and restoration.

Glenview Road Resurfacing, Wilmette: Resident Engineer responsible for construction engineering and observation including: verifying that contractor was in conformance with plans and specifications, preparing pay estimates and change orders. Project consisted of resurfacing over 0.5 miles asphalt pavement. Additional improvements included curb and gutter spot repairs, sidewalk replacement, and PCC Driveway replacement. Detector loop replacement was coordinated with CCHD. Project was funded using ERP funds.

95th Street LAPP Resurfacing, Naperville: Resident Engineer responsible for construction engineering and observation for resurfacing of 95th St from Plainfield-Naperville Rd to IL Route 59. Roadway construction included approx. 67,100 SY of partial-depth asphalt pavement. Resurfacing required approx. 3,600 tons of Polymer HMA N50 Leveling Binder, and 6,200 tons of Polymer HMA N90 Surface Course "F" Mix. Additional roadway improvements included curb and gutter spot repairs, utility structure adjustments, and thermoplastic pavement markings. Sidewalk improvements were completed where necessary, including new ramps meeting ADA standards.



2010 Road Program, Wilmette: Resident Engineer responsible for construction engineering, layout, and observation for reconstruction and resurfacing of various streets. Roadway construction included approx. 1.03 total miles of various residential roadway improvements. Utility construction included 845 LF of combination sewer removal and replacement, reconnecting existing sewer services, and manhole removal and replacement. Roadway improvements included curb and gutter removal and replacement, driveway removal and replacement, landscaping and pavement markings.

10th Street/Wilmette Avenue ARA Resurfacing, Wilmette: Resident Engineer responsible for construction engineering and observation for resurfacing of 10th St and Wilmette Ave. Roadway construction included approx. 12,000 SY of HMA resurfacing, curb and gutter spot repairs, sidewalk improvements with new ramps meeting ADA standards, and various other roadway improvements.

Arrowhead Subdivision Roadway Improvements, Algonquin: Resident Engineer responsible for construction engineering and observation. Roadway construction included approx. 18,000 SY of full-depth asphalt pavement, curb and gutter construction, and various other roadway improvements. Utility construction included approx. 6,000 LF of storm sewer, 2,500 LF of water main, and additional drainage improvements where necessary.

Huntington Drive North Resurfacing (ARRA), Algonquin: Resident Engineer responsible for construction engineering and observation. Roadway construction included approx. 15,500 SY of partial depth resurfacing, and approx. 1,900 SY of HMA pavement patching. Additional improvements included reconstruction of sidewalks, curb and gutter, and additional drainage improvements as necessary.

2009 LAPP Program (Various Streets), Algonquin: Resident Engineer responsible for construction engineering and observation for resurfacing and reconstruction of various streets throughout the Village. Roadway construction included approx. 64,000 SY of partial depth resurfacing, 6,400 SY of full-depth reconstruction, and HMA pavement patching. Additional improvements included reconstruction of driveways, sidewalks, curb and gutter, and detector loop installation. Reconstruction of Bunker Hill Dr was completed at night in order to minimize impact to the traveling public.

Randall Road and Huntington Drive Traffic Signal Modernization, Algonquin: Resident Engineer responsible for construction engineering and observation for installation of timed pedestrian signals and crosswalk improvements at the intersection of Randall Rd and Huntington Dr. Project was located within McHenry County ROW and required coordination between the Village and the County.

2009 MFT Street Program, Algonquin: Resident Engineer responsible for construction engineering and observation for resurfacing of Butterfield Dr and Providence Dr. Roadway construction included HMA pavement patching, and approx. 4,700 SY of hot-in-place heater scarifying of existing pavement before HMA surface course placement.



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.

YEARS EXPERIENCE: 31
YEARS WITH CBBEL: 18

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 public streets, alleys or easements. Some municipalities prepared for include:

- Chicago Ridge
- Grayslake
- Hawthorn Woods
- Rosemont

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



LAND SURVEYING SERVICES

Chicago Water Partners (1999-2015): 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.

Balmoral Road Extension, Chicago, O'Hare and Rosemont: Survey Manager. Responsibilities included creation of signed and sealed Plats for acquisition of ROW and easements. 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 Plats along with the writing of legal descriptions for various easements to be acquired for project. Also the field surveying of existing conditions survey of the project corridor.

Peterson Road and IL Route 83, Lake County: Survey Manager for design and roadway construction. Surveying responsibilities included creation of signed and sealed "Plat of Highway" for acquisition of ROW and easements along project corridor per 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. Also the field surveying of existing conditions survey of the project corridor.

IL Route 60 and Saunders Road, Lake Forest: Survey Manager for design and roadway reconstruction. The existing diamond interchange operated poorly, so to address immediate congestion problems and safety, interim improvements to the interchange were planned including additional through lanes and turn lanes on IL 60, a new bridge over I-94, and ramp modifications. Surveying responsibilities included creation of a signed and sealed "Plat of Highway" for acquisition of ROW and easements along project corridor per 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.

MWRD Property (163.0 AC), Palos Hills: Survey Manager for determination of the boundaries of MWRD's parcels 6.01, 7.01 and 8.03, and preparation of written legal descriptions of the overall boundaries to be used for executing legal agreements. Provided a Boundary Survey for 163 acres of land lying adjacent to the Calumet-Sag Channel which involved extensive research at the Cook County Recorder's Office and other public agencies to obtain recorded and unrecorded documents of the subject site. Required coordination of field crews for field survey and recon to obtain existing field evidence on the subject site to aid in the determination of the existing boundaries utilizing GPS and conventional survey methods. Calculations along with analysis of research documents and collected field data to determine the existing boundaries of the subject property for the creation of an overall "Plat of Survey".

TRANSPORTATION

I-80 Resurfacing (Harlem Avenue to I-294), IDOT: Survey Manager overseeing drafting and quantity calculations for 6 miles of I-80. The \$16 million project included surveying tasks completed almost entirely at night. All documentation was prepared in accordance with ARRA requirements, the IDOT Construction Manual and the Project Procedures Guide.

Golf Road, Rolling Meadows: Established horizontal and vertical control for Phase I roadway design. Also established existing ROW for purposes of land acquisitions and the preparation of a plat of highway suitable for submittal to IDOT. Project length of approximately 0.75 miles.



Balmoral Avenue, Rosemont/Chicago/Wisconsin Central:

Established horizontal and vertical control, existing roadway, railroad and property boundaries for the evaluation of the construction of a bridge over the Wisconsin Central RR from the existing Balmoral Avenue to Mannheim Road. Also the preparation of plats and legals for land acquisitions necessary for construction. Included control and layout for the construction of the approved bridge.

INFRASTRUCTURE

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 five 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 the 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 the 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, Elmwood Park: 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 comprised of information obtained from the Cook 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 were developed based on field observations with the use of GPS and conventional surveying

methods. Our field crews surveyed the location of all storm, sanitary and water structures for the entire Village. 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.



TAB 4

SIMILAR PROJECT EXPERIENCE



PROJECT EXPERIENCE

Included in this section is our **relevant** project experience as it relates to the Twin Lakes Subdivision Sidewalk Improvements and the experience of our proposed Resident Engineer, **KEVIN WILSON, PE**. These projects demonstrate our experience in Phase III – Resident Engineering services, including daily construction observation, IDOT documentation and material inspection, preparation of pay estimates, change order, and other IDOT documentation, preparation of record drawings, and construction staking. Our Resident Engineering experience includes the various types of construction projects that the Village of Villa Park awards, including, but not limited to, roadway rehabilitation, sidewalk improvements, sewer/water main installation, storm water improvements, traffic signal modernizations, and electrical/mechanical improvements (lift stations, street lighting, etc.).

The proposed Resident Engineer for this project, Kevin Wilson, PE, has worked on the IL-47 project since 2012. His project experience from 2012-2015 is limited because of one large project, and we feel that should be considered a strength to this proposal based on the quality and breadth of that one project. His past experience on sidewalk rehabilitation was completed for the City of Chicago Department of Transportation (CDOT) – Arterial Street ADA Ramps 2011 (Central), 2011 (North), 2010 (Far South) and 2010 (South) which consisted of improvements to 928 ADA ramps within the City of Chicago limits. Other notable projects similar in scope to the Twin Lakes Subdivision Sidewalk Improvements include Conway Park Sidewalk Improvements and Infrastructure Initiative Program, which are detailed in this section.

Christopher B. Burke Engineering, Ltd. (CBBEL) understands the importance of our municipal clients and we strive to meet their special demands. We encourage you to contact any of our references.

ARTERIAL STREET ADA RAMPS**2011 (CENTRAL), 2011 (NORTH), 2010 (FAR SOUTH), 2010 (SOUTH)**

CBBEL was chosen to provide Phase III engineering services for three separate task order contracts for the City of Chicago Department of Transportation. The three projects were very similar in scope, but were administered separately.

**2012 - 2013****PROJECT TEAM**

W. Daniel Crosson, PE
Project Manager

Lisa Gasperec, PE
Resident Engineer

Patrick Kielty, PE
Resident Engineer

Kevin Wilson, PE
Resident Engineer

Nicole Lehmann, PE
Documentation Engineer

CLIENT

City of Chicago Department
of Transportation

FUNDING SOURCE

CDOT/Federal

Christopher B. Burke
Engineering, Ltd.
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
T: 847.823.0500
F: 847.823.0520
www.cbbel.com

For each contract, the ADA ramp improvements included the construction of sidewalk corners to current ADA standards. The work also included removal of existing sidewalk, drainage work, HMA resurfacing, striping, and landscaping, as needed. The three contracts are summarized as follows:

PROJECT	NUMBER OF ADA RAMPS	CONSTRUCTION COST	ENGINEERING COST
ADA Ramps (Central)	535	\$1.8 Million	\$297,000
ADA Ramps (North)	338	\$1.5 Million	\$179,000
ADA Ramps (South/Far South)	55	\$250,000	\$65,000

Because these projects affected businesses and residents, particular attention to business access and pedestrian thoroughfares had to be addressed. Meeting with business owners to discuss the potential impact to their access was necessary for a successful project. In addition, this project encompassed 17 different wards, which required coordination with 17 individual Aldermanic offices.

Other challenges to these projects included the on-going coordination with the many departments within the City of Chicago and the other vendors that provide City services, and public utilities. These entities include, but are not limited to, Department of Sewer and Water, Division of Electric Operations, JC Decaux (coordination for bus shelters), the Red Light Camera vendor, and the public utility companies (Peoples Gas, Comcast, AT&T, etc.).

Services included:

- Preconstruction Coordination
- Shop drawing/Submittal Review

- Daily Observation of Construction and MOT
- Documentation in Daily Log, IDRs and CDOT website
- Compiling all CDOT logs for ADA Ramp Compliance, Submittals, RFI's, and Correspondence
- Completion of QC Reports for each ADA Ramp
- Review and submittal of all RFIM's and T-Letters for inspection of incorporated materials
- Tracking of EEO and DBE goals by the contractor
- Chair Construction Review Meetings
- Process RFIs, Change Orders, Field Orders and PCMs
- Compile Monthly Pay Estimates
- Review and Log Certified Payrolls
- Compile Punchlist
- Post-Construction Documentation and Close-Out

IL-47 (IL-71 TO KENNEDY DRIVE)

CONTRACT NO. 66671



This project consisted of the reconstruction and widening of Illinois Route 47 from north of Illinois Route 71 to Kennedy Drive, Illinois Route 126 to 0.1 mi east of Illinois Route 47, and US Route 34 from 0.25 mi west to 0.25 mi east of Illinois Route 47 within the City of Yorkville.



2012-2015

PROJECT TEAM

Kevin Wilson, PE
Liaison Engineer/
Materials Coordinator

David Dobson, PE
Documentation Technician/
Construction Inspection

Kevin Lill, EI
Construction Inspection

CLIENT
IDOT

CONSTRUCTION COST
\$30 million

FEE
\$2 million

FUNDING SOURCE
IDOT District 3

CBBEL provided Phase III engineering services for all aspects of this project. As Assistant Resident Engineer, CBBEL performed coordination of construction inspection, contract administration (including ICORS), and material testing. CBBEL worked in conjunction with three subconsultants to provide these services. The project included several components as follows:

Roadway Improvements

- Complete reconstruction and widening with new concrete pavement of approximately 3.5 miles. The existing pavement generally consisted of one travel lane in each direction with a center turn lane. The proposed roadway section generally consists of two travel lanes in each direction with a center turn lane. Auxiliary turn lanes were added at various intersections.
- Bridge Repairs on the Fox River Bridge
- Removal of ICC Railroad tracks crossing IL-47 just south of the Fox River. Work was coordinated with ICC and shut down IL-47 through traffic for 1 week. IDOT replaced the approach during this shutdown.
- New curb and gutter, and installation of storm sewer throughout the project limits with outlets into the Fox River on both the north and south banks.

- Bore and auger dual 60" steel casings under the ICC Railroad tracks in order to install dual 48" RCP storm sewers.
- New sidewalks on both sides of the roadway, and a new 10 ft. wide multi-use HMA trail on one side of the roadway along sections of IL-47 and IL-126.
- Various relocations and replacements of water and sewer mains.

Traffic Signal and Lighting Improvements

- The traffic signal modernizations include nine IDOT intersections along IL-47 and US-34.
- New fiber-optic interconnect of the new signals with existing signals outside of the project limits along IL-47 and US-34.
- New lighting system along IL-47 from IL-126 to Somonauk Street. CBBEL performed QA and redesign of the proposed lighting plans due to specification revisions.



Christopher B. Burke
Engineering, Ltd.
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
T: 847.823.0500
F: 847.823.0520
www.cbbel.com

INFRASTRUCTURE INITIATIVE PROGRAM



The Public Sidewalks Improvement Program is a three year program to provide 214,000 LF of new sidewalk throughout the Village, concentrating on areas within ½ mile of a school.



2007 - 2009

PROJECT TEAM

W. Daniel Crosson, PE
Project Manager

Kevin Wilson, PE
Project Manager

Christopher Faust, PE
Project Manager

Steve Gasperec
Construction Inspector

CLIENT

Village of Northbrook

CONSTRUCTION COST

\$6 million

FEE

\$555.1 thousand

FUNDING SOURCE

Local

The Village of Northbrook created the Infrastructure Initiative Program which provided for the design and construction of seven projects with an estimated \$20 million construction cost.

Included in the sidewalk construction is the installation of new storm sewer where necessary, regrading for positive drainage, and landscaping restoration. In 2007, CBBEL provided construction engineering and construction observation services for approximately 22,000 LF of sidewalk construction. This project requires intense coordination with the residents and the Village in order to incorporate new sidewalks into the existing infrastructure.

Services included:

- On-site construction observation and documentation of the contractor's daily activities
- Serve as Village's liaison with the contractor, residents, and business owners
- Measurement and calculation of daily quantities
- Coordination of materials testing and inspection per IDOT's Project Procedures Guide
- Review change orders and contractor pay requests

Christopher B. Burke
Engineering, Ltd.
9575 W. Higgins Road
Suite 600
Rosemont, IL 60018
T: 847.823.0500
F: 847.823.0520
www.cbbel.com

CONWAY PARK SIDEWALK IMPROVEMENTS



In order to provide a continuous walking path throughout Conway Park office park corridor, CBBEL constructed a 36,000 SF sidewalk.



2011

PROJECT TEAM

Michael Ziegler, PE
Project Manager

Kevin Wilson, PE
Resident Engineer

CLIENT

Conway Park at Lake Forest
Owner's Association

CONSTRUCTION COST

\$315 thousand

FEE

\$35 thousand

FUNDING SOURCE

Private

The Conway Park Sidewalk Improvements project consisted of constructing a 36,000 SF sidewalk to provide a continuous walking path throughout the Conway Park office park corridor. Additional improvements included removing and replacing curb and gutter, improving handicap accessibility, pavement markings, and landscaping regarding and restoration.

Services included:

- Topographic Survey
- Preliminary, pre-final and final plan, specifications and estimates
- Construction observation including the resident engineer verifying that the contractor is in conformance with the plans and specifications and serving as a liaison with the business owners and contractor
- Prepared pay estimates and change orders for the client's approval



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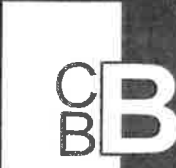
www.cbbel.com

REFERENCES

CBBEL has listed references from other agencies where projects have been completed. Included also behind this tab are project fact sheets highlighting some of CBBEL's projects.

1. Joseph Wick
Implementation Engineer
**ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 3**
700 East Norris Drive
Ottawa, IL 61350
815.434.6131
Joseph.wick@illinois.gov
2. Robert Kozurek
Project Engineer
CITY OF NAPERVILLE
400 South Eagle Street
Naperville, IL 60566
630.420.6113
kozurekb@naperville.il.us
3. Robert Mitchard II
Public Works Director
VILLAGE OF ALGONQUIN
2200 Harnish Drive
Algonquin, IL 60102
847.658.2700
bobmitchard@algonquin.org
4. Chris Tomich
Village Engineer
VILLAGE OF MORTON GROVE
6101 Capulina Avenue
Morton Grove, IL 60053
847.965.4100
ctomich@mortongroveil.org
5. Brigitte Berger
Director of Engineering and Public Works
VILLAGE OF WILMETTE
1200 Wilmette Avenue
Wilmette, IL 60091
847.251.2700
bergerb@wilmette.com
6. Christopher Kent
Coordinating Engineering
CITY OF CHICAGO
Department of Transportation
Division of Engineering
30 N. LaSalle Street, Suite 400
Chicago, IL 60602
312.744.3613
ckent@cityofchicago.org
7. Ernest Saunders
Real Estate Manager
**Conway Park at Lake Forest
Property Owner's Association**
38324 Imperial Lane
Beach Park, IL 60087
847.833.7287
ernie@cpowners.com

TAB 5
COST PROPOSAL



COST PROPOSAL

Included in this section is our cost proposal for Phase III Engineering services for the Twin Lakes Subdivision Sidewalk Improvements. As requested, CBBEL is submitting our cost proposal on the IDOT form required for federal participation, which is BLR 05611 – Construction Engineering Services Agreement for Federal Participation.

Our cost proposal does not include any QA material testing, as it is our understanding that the Village will contract separately for these services. CBBEL will be responsible to schedule and coordinate the testing, which is included in our fee. In addition, our fee includes an estimate to complete before and after construction cross-sections, which is required by IDOT for federally funded projects. Finally, we have included a separate task for utility relocation coordination. The list of potential conflicts in the special provisions is extensive, and will most likely require our assistance prior to the start of construction. Based on our previous experience with utility relocations, it is critical to start coordination with the utility companies and District 1 as soon as possible.

We have put this cost proposal together based on previous experience on similar IDOT projects, but CBBEL is always open to discuss the proposed scope and expectations for this project.