November 23, 2021

Mr. Bill McKenna, Village Engineer
Village of Oak Park
201 South Boulevard
Oak Park, Illinois 60302

Proposal: Kenilworth Ave, Lenox St and Thomas St Storm Sewer Replacement Design and Construction

Dear Mr. McKenna,

V3 Companies (V3) is pleased to provide design and resident engineering services for the Kenilworth Ave, Lenox St and Thomas St storm sewer replacement and roadway reconstruction. The enclosed information presents our team, scope of services and fee to provide Phase II and III services for the project.

With the Master Agreement for Professional Engineering Services between Oak Park and V3 dated 9/29/2021 which set forth the contractual elements of this agreement, will constitute an agreement between Oak Park (CLIENT) and V3 Companies, Ltd. for professional services on this project.

We appreciate the opportunity to present this proposal and look forward to working with you on this project.

If you have any questions, please contact Jason Holy at 630.729.6184.

Sincerely,
V3 Companies, Ltd.

Vince Del Medico, P.E., Vice President

Phase II Engineering Service Scope of Work

CCDD SOIL DISPOSAL EVALUATION

Lenox St and Thomas St

V3 will conduct a CCDD Soil Disposal Evaluation in accordance with IL Title 35 Part 1150 Subtitle J: Clean Construction or Demolition Debris. CCDD facilities and Uncontaminated Soil Fill Operations are privately owned and maintain the right to accept or reject materials on any criteria decided on by the facility. Consequently, adherence to IL Title 35 Part 1150 Subtitle J does not guarantee acceptance at every CCDD facility. This proposed scope of work is consistent with IL Title 35 Part 1150 Subtitle J and industry standards.

The CCDD Soil Disposal Evaluation will be conducted to screen and characterize potentially excavated soils generated from proposed construction activities that cannot be reused or managed onsite. The CCDD Soil Disposal Evaluation will include the following tasks:

- Review reasonably ascertainable regulatory information published by federal, state, local, tribal, health, and/or environmental agencies pertaining to properties adjacent to the project corridor.
- Review historical data sources for properties adjacent to the project corridor, including aerial photographs, topographic maps, fire insurance maps, city directories, and other readily available data.
- Based on the initial environmental records screening, this Scope assumes the project area is not adjacent to any Potentially Impacted Properties (PIPs), and that project soils can be certified with an LPC-662 certification.
- A total of 2 borings for Lenox St and 3 borings for Thomas St will be advanced for this CCDD evaluation. The borings will target the proposed construction activities and will be advanced to a maximum depth of 10ft below ground surface.
- Drilling services will be provided by Earth Solutions, Inc. This Scope assumes that this drilling will be conducted simultaneously with the other streets.
- Depending on the depth of maximum proposed excavation, soil samples may also be collected with a stainless-steel hand auger.
- Soil sampling will be conducted by a V3 geologist or environmental engineer.
- Sample analysis will be performed by an Illinois NELAP accredited laboratory.
- Soil samples will be collected into laboratory-provided containers, packaged in the field, and stored on ice until delivery to a NELAP accredited laboratory under proper chain-of-custody.
- The field sampling activities and the lab analytical result will be detailed in the CCDD Soil Disposal Evaluation Report which will include:
    - Brief project summary and propose excavation and/or ROW acquisition associated with the Project.
    - Summary of field activities and observations.
    - Summary of project area history and supporting documentation to justify the non-PIP determination and selection of the LPC-662 source site certification by owner
    - Demonstration that the pH of site soils are within the acceptable range of 6.25 to 9.0.
    - LPC 662 form to certify soils qualifying for CCDD disposal will be included in the appendix of the CCDD Soil Disposal Evaluation.
- Considering the proposed design has not been finalized and soil sampling is dependent on the findings of the records review of adjacent site histories, the costs associated with the CCDD Soil Disposal Evaluation were based

on the following assumptions and could be subject to change depending on the project design and the PIPs identified.

Kenilworth Ave

V3 will conduct a CCDD Soil Disposal Evaluation in accordance with IL Title 35 Part 1150 Subtitle J: Clean Construction or Demolition Debris. CCDD facilities and Uncontaminated Soil Fill Operations are privately owned and maintain the right to accept or reject materials on any criteria decided on by the facility. Consequently, adherence to IL Title 35 Part 1150 Subtitle J does not guarantee acceptance at every CCDD facility. This proposed scope of work is consistent with IL Title 35 Part 1150 Subtitle J and industry standards.

The CCDD Soil Disposal Evaluation will be conducted to screen and characterize potentially excavated soils generated from proposed construction activities that cannot be reused or managed onsite. The CCDD Soil Disposal Evaluation will include the following tasks:

- Review reasonably ascertainable regulatory information published by federal, state, local, tribal, health, and/or environmental agencies pertaining to properties adjacent to the project corridor.
- Review historical data sources for properties adjacent to the project corridor, including aerial photographs, topographic maps, fire insurance maps, city directories, and other readily available data.
- Base on other historic environmental investigations, this Scope assumes that there is only one Potentially Impacted Property (PIP) identified adjacent to this project area. This PIP is associated with the First united Church of Oak Park property that has a former heating oil UST.
- A total of 4 borings will be advanced for this CCDD evaluation. The borings will target the proposed construction activities and will be advanced to a maximum depth of 10ft below ground surface.
- Drilling services will be provided by Earth Solutions, Inc. This Scope assumes that this drilling will be conducted simultaneously with the other streets.
- Depending on the depth of maximum proposed excavation, soil samples may also be collected with a stainless-steel hand auger.
- Soil sampling will be conducted by a V3 geologist or environmental engineer.
- Sample analysis will be performed by an Illinois NELAP accredited laboratory.
- Soil samples will be collected into laboratory-provided containers, packaged in the field, and stored on ice until delivery to a NELAP accredited laboratory under proper chain-of-custody.
- The field sampling activities and the lab analytical result will be detailed in the CCDD Soil Disposal Evaluation Report which will include:
    - Brief project summary and propose excavation and/or ROW acquisition associated with the Project.
    - Summary of field activities and observations.
    - Detected concentrations of contaminants of concern based on laboratory analysis.
    - Comparison of detected concentrations of contaminants to Maximum Allowable Concentrations (MACs) specified in 35 IAC Part 1100, Subpart F. to evaluate excavated soils for CCDD acceptance, and comparison to Tier 1 soil remediation objectives (ROs) specified in 35 Illinois Administrative Code (IAC), Part 742 Tiered Approach to Corrective Action Objectives (TACO) for industrial/commercial and, residential land use, and Construction Worker exposure routes to evaluate the ability of the soil to be reused as fill, or the need for construction worker notification.
    - Figures depicting the limits of the soil management areas. [Note: estimated volumes of waste soils requiring disposal will only be included in the report if volumes are provided by design engineer]
    - LPC 662 and 663 forms to certify soils qualifying for CCDD disposal will be included in the appendix of the CCDD Soil Disposal Evaluation.

- Considering the proposed design has not been finalized and soil sampling is dependent on the findings of the records review of adjacent site histories, the costs associated with the CCDD Soil Disposal Evaluation were based on the following assumptions and could be subject to change depending on the project design and the PIPs identified.

FINAL ENGINEERING DRAWINGS AND SPECIFICATIONS

All plans and specifications will be prepared in accordance with IDOT and Village standards and guidelines. V3 will review the plans for conformance to the Village's Complete Streets Checklist. Plan and specification submittals to the Village are anticipated at the 75%, 90% and contract document stages for the project. The following contract documents will be prepared in accordance with Village standards:

75%, 90% and contract document Engineering Plans at 1:20 scale and profiles at 1:10 or 1:5 scale. The engineering plans will consist of the following sheets:

- Cover Sheet
- General Notes, Commitments, State Standards and Index of Sheets
- Summary of Quantities
- Existing and Proposed Typical Sections
- Alignment, Ties and Benchmarks
- Maintenance of Traffic Notes, Typical Sections
- Maintenance of Traffic Plan
- Existing Conditions and Removals
- Plan (1"=20' horizontal scale) and Profile (1"=10' or 1":5' vertical scale)
- Drainage and Utilities (1"=20' horizontal scale, 1"=10' vertical scale)
- Drainage Details
- Erosion and Sediment Control
- Pavement Marking and Signing
- ADA Ramp Details
- Landscaping Plans and Details
- Construction Details
- Special Provisions/Bid Documents with bid alternates as described
- Engineer's Estimate of Probable Construction Cost

PROJECT DELIVERABLES/ CONSTRUCTION BID ASSISTANCE

- One pdf of full size, pre-final and final engineering drawings
- One pdf of the special provisions
- Up to two Contract addendums
- Bid tabulations and recommend construction contract award memo
- CAD design files of the proposed improvements in Microstation format

UTILITY COORDINATION

- The following utility coordination and permitting are anticipated during the Phase I and II of the project with ComEd, AT&T, Comcast and Nicor

MEETINGS, FIELD CHECKS AND PUBLIC INVOLVEMENT

- V3 will perform one site visit to evaluate the curbs and sidewalks for replacement.
- Meeting with the Village of Oak Park Engineering Division to review progress of plans
- V3 will work with Village to work out a sequence of construction that will be vented with the residences and various agencies to reduce the impact to them during construction. They maybe coordinated with the impacted parties by a mailing or in person.

QA/QC

A quality assurance/quality control program will be prepared and implemented throughout the duration of the project. Applicable checklists will be utilized for each submittal to the Village during Phase I and II.

PHASE II ASSUMPTIONS AND EXCLUSIONS

The following assumptions and exclusions used in preparing this proposal are presented below. If any of these tasks are required, or the assumptions presented below change during the course of the project, they will be subject to additional services or separate agreements.

- Survey services are not included.
- Wetland, archaeological, or environmental consulting services, other than specifically listed in the scope of work is not included.
- Structural engineering services.
- Design services, modeling, or permitting associated with work within any existing floodplain, floodway, or wetlands are not included.
- Private utility improvements, extensions or relocations to eliminate conflicts with the proposed improvements are not included. V3 will coordinate this work with the respective utility owner and include it on the plans. Each utility owner will be responsible for the design of their own facility.
- Items related to right-of-way acquisition, additional coordination, and unforeseen activities are not included.
- It is assumed that any permit fees will be considered a reimbursable expense.
- Landscape design services are not included.
- Geotechnical design or consulting services are not included.
- V3 will not be responsible for completing a Preliminary Site Investigation (PSI) for this project. V3 will only be responsible for developing the scope of work required.
- The number of meetings specified in the scope of work is estimated. If additional meetings are required for extra design scope outside of the original intent of the project, then V3 will be entitled to additional fee.
- Noise analysis, Section 4(f) evaluation or Section 106 statement are not included

Phase III Construction Engineering Scope of Work

PRE-CONSTRUCTION PHASE SERVICES

- Perform a constructability plan review of final documents to identify potential conflicts or issues that may affect the construction schedule or budget.
- Perform a field inspection to ensure current field conditions are reflective of the contract plans.
- Provide digital existing condition photographs to document existing site conditions.
- Establish channels of communications with all stakeholders, including individual schools and emergency responders.
- Schedule, lead and prepare minutes for the pre-construction meeting.
- Coordinate contact information for all responsible parties.

CONSTRUCTION PHASE SERVICES

Once the pre-construction meeting has been held V3 will provide the following:

- Review and process submittals for approval.
- Review each location with the Contractor and verify no additional utility coordination will be required to perform the work.
- Coordinate construction with utilities.
- Review the Contractor's submitted Project Schedule, and provide recommendations to the Village for revisions or approval.
- Work with Village personnel to draft construction notification letters for distribution to potential impacted parties.
- Utilizing channels of communication established earlier, continue to coordinate project status with schools, Village departments, and emergency responders that may be impacted by construction staging and changes in the MOT.
- Maintain a 24-hour emergency contact to be coordinated with the Contractor.
- Provide project oversight by a qualified inspector with Resident Engineer oversite.
- Provide full time inspection of Contractor's work. The onsite inspector will be capable and available to answer all stakeholder questions and concerns, record regular on-site observations, and ensure completion of the work in accordance with contract documents.
- Oversee proof rolling of subgrade prior to pavement construction to determine the areas of unsuitable soil replacement. Provide estimated contract quantities for removal and replacement of unsuitable soil with recommendations to the Village.
- Provide a running spread sheet for each day's work and measure quantities for payment.
- Work with the Village on letters to be mailed to the residence along the project limits. Services include assisting in writing the letter and stuffing the envelopes.
- Maintain the project diary and document activities throughout construction.
- Provide digital photographs of construction to document progress or damages inflicted by Contractor methods.
- Coordinate and conduct weekly progress status meetings with Contractor and Village of Oak Park. Distribute meeting minutes to those in attendance within 7 days of the meeting.
- Require the Contractor to provide two-week look-ahead schedules, in order to coordinate public notice and plan ahead for the work.

- Provide weekly construction updates to the Village.
- Confirm the approved materials are being utilized on the project prior to any payments.
- No additional work will be authorized without the written confirmation from the Village of Oak Park.

FINAL CLOSE-OUT SERVICES

- Confirm final quantities with the Contractor.
- With Oak Park present, perform a final inspection of completed work, and issue both working and final punch lists to the Contractor, to resolve prior to final payments.
- With Village concurrence, issue acceptance of the work upon satisfactory completion of all noted items.
- Prepare and submit the final pay request.
- Provide as-built drawings in CAD and pdf formats.
- Submit final papers to Village suitable for project closeout; submit job box and copies of electronic files to Village.

PHASE III ASSUMPTIONS & EXCLUSIONS

The following assumptions and qualifications were made by V3 in preparing the scope, fee and schedule for the project. If any of these conditions change throughout the project, V3 may be entitled to additional services. We will notify the Village as soon as possible if we foresee project conditions changing.

- Post design services outside what is presented here in is not included.
- Meetings in addition to those specified above are not included.
- Construction survey and layout is not included.

Employee Classification: / Hourly Rate:	SR Project Manager $217.08	Project Manager II $181.15	Project Manager I $166.13	Design Engineer $113.52	CAD Technician $125.14	Project Scientist II $120.27	Project Coordinator $68.00	Resident Engineer Manager $176.33	Construction Inspector $135.35	Costs
Meetings		8		8						
Utility Coordination and Community Coordination		15		20	10					
Design Plans		40		425	40					
Specifications		10		35						
QA/QC	10	2								
Bid Phase		15		10						
RE Construction Services								75	770	
CCDD Paperwork			30			39	6			
As-Builts					10					
Hours	**10**	**90**	**30**	**498**	**60**	**39**	**6**	**75**	**770**	**1578**
Fee	**$ 2,170.80**	**$ 16,303.50**	**$ 4,983.90**	**$ 56,532.96**	**$ 7,508.40**	**$ 4,690.53**	**$ 408.00**	**$ 13,224.75**	**$ 104,219.50**	**$ 210,042.34**
Direct Cost and Soil Boring Contractor										**$ 4,350.00**
TOTAL										**$ 214,392.34**

JASON HOLY, P.E.

PROJECT MANAGER

Jason is a Project Manager with experience focusing on roadway and intersection design, traffic staging, bicycle and pedestrian facilities, utility design/coordination and constructability reviews. His work experience includes construction observation, aggregate materials inspection, onsite inspection, maintenance of traffic and topographic survey. Jason specializes in finding solutions to unique project challenges while maintaining schedules and budgets.

YEARS OF EXPERIENCE

V3: 20 | Total: 21

EDUCATION

Bachelor of Science, Civil Engineering, Valparaiso University

REGISTRATIONS

Professional Engineer:

- *Illinois, #062-059941, 2007*
- *Ohio, #PE.86380, 2021*

Lockport Heights Sanitary Study, Lockport Heights Sanitary District – *Lockport Heights, Illinois* | Project Manager for the evaluation of the existing eight-inch, sanitary main that serves 144th Place which would back up into residential homes during heavy rain events. V3 surveyed the site and televised the sanitary lines to identify any issues with the pipes or residential service connections. A smoke test was also performed to determine if there were any connections or separations in the lines. V3 recommended that the community increase the size of the pipe to 10 inches to increase capacity. In addition, replacing the pipe will resolve sag points and provide a more constant slope to improve flow.

Lockport Heights Watermain Replacement, Lockport Heights Sanitary District – *Lockport Heights, Illinois* | Project Manager for design and construction-phase services for the abandonment of a failing watermain that was replaced with approximately 1,600 feet of new C900 PVC, eight-inch watermain. V3 worked with the community to submit a Community Development Block Grant to Will County to finance the watermain replacement. Project challenges included meeting Illinois EPA separation requirements and working within a residential community with water service lines that had not been correctly installed when the homes were constructed.

DuPage River Sports Complex Parking Lot, Naperville Park District – *Naperville, Illinois* | Project Manager for the resurfacing the asphalt pavement for two parking lots as well as minor pavement widening for the access road connecting the parking lots. Work items included curb and gutter removal and installation, sidewalk removal and installation, pavement marking installation, structure adjustments and traffic signal loop replacement. The staging of the improvements were important as the contractor was required to keep access to the park at all times and a minimum number of parking spaces to maintain park operations.

Naperville Road Improvements from Ogden Avenue to Reagan Memorial Tollway (I-88), DuPage County DOT – *Naperville, Illinois* | Project Engineer for Phase II engineering for widening and resurfacing of approximately one-half mile of roadway to include a third northbound through lane to the eastbound tollway entrance ramp as well as a third southbound through lane to Naperville-Wheaton Road. Additional improvements include the addition of auxiliary lanes at intersections to enhance traffic flow as well as full modernization and interconnection at two signaled intersections with new sidewalk, ADA ramps and crosswalks. The development of a comprehensive traffic staging plan was a key project component.

Cedar Road Reconstruction, Will County DOT – *Will County, Illinois* | Project Manager for this 1,600-foot, complete roadway reconstruction with intersection improvements at Cedar Road and Francis Road. Project included a complete replacement of the existing box culvert, modernization of traffic signals and new sidewalk along the east side of Cedar Road. To improve the level of service, an additional left turn storage lane and new right turn lanes for additional intersection capacity.

Watermain Replacement & Grant Assistance, Lockport Heights Sanitary District – *Lockport Heights, Illinois* | Project Manager for the replacement of more than 1,700 feet of existing, four-inch transite watermain with new eight-inch PVC watermain. Project also included replacement of existing b-boxes, connecting services and fire hydrants. V3 completed and submitted a grant application on behalf of the Lockport Heights Sanitary District and was awarded funds by the Will County Community Development Block Grant program.

Pedestrian Bridge over Tinley Creek Replacement, Elim Christian Services – *Crestwood, Illinois* | Project Engineer for the removal and replacement of this pedestrian bridge that washed out during a heavy rain event in early 2020. V3 removed the old bridge and worked with a truss bridge fabricator to desk the new structure. Shoreline restoration and creek modeling was required to place the bridge at the correct elevation and permitting for work around the waterway.

Flagg Creek Outfall Study, Village of Western Springs – *Western Springs, Illinois* | Project Engineer for field inspections along the Flag Creek corridor to find and document existing outfalls along the creek. Our team located 33 outfalls and documented the conditions of each outfall and provided a recommendation for repairing issues that were observed in the field. Once all outfalls were located, V3 created a master spread sheet detailing the location and condition each outfall as well as a rating system to prioritize repairs.

Oak Park Parking Lot Evaluation, Village of Oak Park – *Oak Park, Illinois* | Project Manager for evaluation of 94 parking lots included inspection of the parking lot facilities as well as the pavement, sidewalks and curbs. The pavement evaluation method used for this project was the ASTM D6433-18 PCI rating scale. Once the information was gathered in the field, it was entered into a matrix which was used to recommend a five-year maintenance plan for the Village.

Indiana American Water Reconstruction, American Infrastructure Technologies, LLC – *Indiana* | Project Manager working in conjunction with American Infrastructure Technologies, LLC to design new watermains for various communities served by Indiana American Water. The project consisted of designing new watermain to avoid existing trees, landscaping and utilities as well as maintaining the existing main during construction. Jason was responsible for preparing design plans.

IL Route 53 Northern Pedestrian Connectivity Project, Village of Woodridge – *Woodridge, Illinois* | Project Manager for the first phase of pedestrian accommodations master plan on IL Route 53. Project limits were from Mulligan Drive to Hobson Road and included 11,000 square feet of five-foot wide PCC sidewalk and traffic signal modernization with new pedestrian crossings. Project was funded with STP funds. Jason worked with the Village to study the whole Il Route 53 corridor within the Village limits to determine where future sidewalk and multi-use paths could be installed.

College of DuPage Parking & Roadway Resurfacing, Capital Development Board & College of DuPage – *Glen Ellyn, Illinois* | Project Manager for the maintenance program for parking lots and internal campus roadways. Projects included curb repairs, drainage structure adjustments, sidewalk repairs, pavement patching, seal coating, micro resurfacing and striping.

Tri-State Tollway (I-294) Widening & Rehabilitation, Illinois Tollway – *Franklin Park & Schiller Park, Illinois* | Project Engineer providing Phase II design engineering services for the widening and rehabilitation of nearly two miles of I-294 from the new Elgin-O'Hare/Western Access system interchange to the O'Hare Oasis. Improvements include the addition of a fifth travel lane in each direction, widened median shoulders (for flex lanes), rehabilitation of the two, half-mile long bridges over the Bensenville Rail yard and reconstruction of the south ramps at the oasis. Jason was responsible for leading the maintenance of traffic plan.

Downtown Joliet Sanitary & Storm Sewer Improvements, City of Joliet – *Joliet, Illinois* | Project Engineer for infrastructure improvements for a trunk sewer installed in downtown Joliet. Project included disconnection of storm sewer inlets from the combined sewer system and the Cass Street sanitary sewer system extension. The design team had to consider the depth of the existing bedrock and constructability concerns, operations of the Will County Courthouse, work within the IDOT roadways and traffic maintenance in this busy downtown area.

ComEd Bridge Management Program, ComEd – *Various Locations, Illinois* | Project Engineer designing 11 bridge replacements to culverts. The new culverts reduced costly maintenance and inspection for the Client. Jason was responsible for plan preparation for bidding.

Downtown Oak Park Watermain & Sewer Improvements, Village of Oak Park – *Oak Park, Illinois* | Project Engineer for the downtown Oak Park water and sewermain improvement project. Improvements include sewer lining and trenchless spot repairs to the existing combined sewer, removal and replacement of sewer and the design of watermain and combined sewer to be augured and encased under a viaduct. Jason provided extensive utility coordination, permit coordination with the IEPA, Metropolitain Water Reclimation District of Greater Chicago and the Union Pacific Railway. He also developed careful construction staging plans to minimize the impact to commuters, pedestrians, residents and businesses as well as crated a build able plan set.

AT&T Utility Conflicts Resolution Design Services, AT&T – *Chicago Metropolitan Area* | Project Manager executing SUE level A and B locating services for AT&T facilities. Design services include the evaluation of AT&T's current facilities and how they may affect a roadway improvement or bridge improvement. V3 also creates design plans to show the new location of the service that needs to be relocated and provides structure services for redesigning existing manholes, designing hanging systems for duct packages under bridge decks and creating standard details for temporary and permanent duct supports.

ComEd Engineering Quality Assurance, ComEd – *Various Locations, Illinois* | Project Manager for civil and structural improvements throughout northern Illinois for more than 300 substation, transmission, distribution and facility improvement projects. Program includes inspection and observing construction to determine whether the work generally conforms to the plans, specifications and approved submittals. Jason coordinates directly with the client, various contractors and V3 team members. He has also assisted ComEd in developing standardized contract specifications for civil and structural elements.

ComEd Distribution Manhole Evaluation & Specification Updates, ComEd – *Chicago, Illinois* | Project Engineer for structural assessment of 28 manholes in the City of Chicago. Project included determination of causes of failure and provided recommendations on specification improvement

Westfield Park Drive Culvert Replacement, City of Westfield – *Westfield, Indiana* | Project Engineer for the replacement of deteriorated twin corrugated metal culverts on Westfield Park Drive. The end sections of the existing culverts had deteriorated and the roadway edge was starting to fail and erode into the Creek. V3 performed hydrologic and hydraulic modeling for the replacement of the culverts with a 20-foot, precast, conspan structure in the regulatory floodway and obtained the necessary permits through the Indiana DNR.

Hamilton Street Parking Lot Improvements, City of Lockport – *Lockport, Illinois* | Project Engineer for the design/build rehabilitation of the Hamilton Parking lot in Downtown Lockport. Project included providing accessible routes from the parking lot to public streets and gathering areas. Coordination with private businesses and residents was required throughout design and construction. This project was completed on time and within budget.

Farrell Road Path, City of Lockport – *Lockport, Illinois* | Project Engineer for the design and construction of a multi-use path along Farrell Road. The path runs adjacent to Lockport Township High School, providing a safe route to adjacent pedestrian access points. Acquisition of permanent easements with the School to avoided costly utility relocates. Project was ITEP funded.

Burlington Highlands Site #2, Village of Downers Grove – *Downers Grove, Illinois* | Project Engineer for stormwater management improvements to a 40-acre study area. Project included detailed XP-SWMM modeling to evaluate hydraulic benefits and verify compliance with the Village's service level drainage event. Jason provided constructability reviews and plan preparation.

Elm & Earlston Drainage Improvements, Village of Downers Grove – *Downers Grove, Illinois* | Project Engineer for drainage improvement design and construction document preparation for a four-acre study area. V3's creative approach to drainage design resulted in cost-savings for the Village as well as much needed relief to flooded residences without impacting traffic flow on Ogden Avenue during the construction process. Jason provided constructability reviews and plan preparation.

IL Route 53 Pedestrian Corridor Study, Village of Woodridge – *Woodridge, Illinois* | Project Manager for a preliminary master plan for future concrete sidewalk and asphalt path construction projects. The study took into account existing and future development, safety and location of the local trail system. Jason coordinated the different options V3 came up with in house to create a uniform layout that would fit the Village's needs for both today and for the future. He also managed the first phase of design and bidding for improvements.

75th Street Reconstruction from Adams Street to Plainfield Road, DuPage County Division of Transportation – *Darien, Illinois* | Project Engineer for preparation of final plans for widening 75th Street to three lanes in each direction between Adams Street and Plainfield Road. Intersection improvements at the 75th Street intersections with Adams Street, Cass Avenue and Plainfield Road included traffic signal modernization and the provision of dual left and right turn lanes. With the heavy traffic volumes on 75th Street, construction staging and maintenance of traffic plans were an important aspect of the project.

Various Pavement Evaluation Projects – *Illinois* | Project Manager for multiple pavement evaluation, design and construction services. Project included site inspections, pavement cores, documented reports, five-year maintenance program development and cost estimates.

- *Atrium Corporate Center – Rolling Meadows, Illinois*
- *Hunt Club Parking Lot – Wheeling, Illinois*
- *Oak Park City Surface Lots – Oak Park, Illinois*

US Route 30/Canadian National Railroad Grade Separation Phase II, IDOT – *Lynwood, Illinois* | Project Engineer for Phase II design engineering services for a grade separation at US Route 30 and the Canadian National Railroad. Improvements included a new, two-span bridge over the tracks, 3,500 feet of roadway reconstruction, 2,300 feet of retaining walls, a 10-foot-wide, multi-use path, capacity enhancements at the intersection of US Route 30 and Sauk Trail and a new frontage road system. Jason prepared contract plans, specifications and estimates and an extensive maintenance of traffic plan.

Jane Addams Memorial Tollway (I-90) at IL Route 25 Interchange, Illinois Tollway – *Elgin, Illinois* | Project Engineer for Phase II design engineering services for the reconstruction of the I-90 interchange at IL Route 25. Improvements included the reconstruction of the interchange ramps, the addition of a fourth travel lane in each direction, widened median shoulders (to accommodate future PACE bus on shoulder service), cross road bridge reconstruction, installation of more than 4,000 feet of new retaining walls and toll plaza improvements. Jason prepared a detailed traffic staging plan to depict the maintenance of three lanes of mainline traffic in each direction during construction (along with the maintenance of all ramp movements). He also designed and prepared staged erosion control plans in accordance with Tollway design standards to coordinate with the maintenance of traffic staging.

Jane Addams Memorial Tollway (I-90) at IL Route 31 Interchange, Illinois Tollway – *Kane & Cook Counties, Illinois* | Project Engineer providing Phase II design engineering services for the reconstruction of the full cloverleaf interchange at I-90 and IL Route 31. Improvements included reconstruction of the interchange ramps, addition of a fourth travel lane in each direction of I-90, widened median shoulders (to accommodate future PACE bus on shoulder service), reconstruction of the mainline bridges over IL Route 31, installation of noise abatement wall and toll plaza improvements. Jason prepared a detailed traffic staging plan and prepared a staged erosion control plan in accordance with Tollway design standards to coordinate with the maintenance of traffic staging.

JASON HOLY, P.E.

PROJECT MANAGER

Ashland Viaduct at Pershing Road Improvements, CDOT – *Chicago, Illinois* | Project Engineer for demolition of the existing Ashland Avenue Viaduct over Pershing Road and the reconstruction of the existing at-grade signalized intersection. Improvements included combined sewer replacement, traffic signal modernization/interconnection, lighting, landscaped medians, landscape restoration, an irrigation system, watermain replacement, pavement marking, signing and a preliminary site investigation to identify contaminated soil removal and disposal requirements. Jason was responsible for the preparation of contract plans, specifications, maintenance of traffic and estimates.

Bartlett Road Bridge over Jane Addams Memorial Tollway (I-90), Illinois Tollway – *Cook County, Illinois* | Project Engineer for Phase II design engineering services for the reconstruction of the Bartlett Road bridge over I-90. The project included raising the Bartlett Road profile over I-90 by approximately five feet to accommodate the proposed bridge beams, provide adequate vertical clearance and to improve drainage conditions along I-90 as well as 2,000 feet of pavement reconstruction, drainage improvements and new retaining walls. Jason was responsible for the preparation of contract plans, specifications and estimates.

Repairs of 71st Street & 83rd Street Bridges Over Veterans Memorial Tollway (I-355), Village of Woodridge – *Woodridge, Illinois* | Project Manager providing design services for overlay of the bridge decks. Both projects included a detour plan to complete the repairs with one concrete pour, saving time and providing a better finished product. Jason was responsible for the complete plan set as well as IDOT approval.

Various Resurfacing Projects Phase I, II & III, Village of Woodridge – *Woodridge, Illinois* | Project Manager for multiple resurfacing projects which consisted of surveying the existing roadway, evaluating the condition of existing sidewalk and curb and gutter, updating ADA ramps, guardrail improvements, evaluating existing storm sewer structures, detector loop replacement and maintenance of traffic. V3 performed Phase I, II and III services on all projects:

- *Janeswood Avenue*
- *83rd Street*
- *71st Street*
- *Janes Avenue*

Che Che Pinqua Watermain Replacement, Fermi National Accelerator Laboratory – *Batavia, Illinois* | Project Manager for the replacement of an existing watermain. Project consisted of one block of watermain replacement and tying in existing services, installing new fire hydrants and installing new valves at either end that connects to the existing watermains. The new watermain was installed in the roadway requiring roadway improvement plans as well.

Church Road Improvements, City of Aurora – *Aurora, Illinois* | Project Engineer for improving approximately one mile of road from Regan Memorial Tollway (I-88) to Butterfield Road. The project included upgrading an existing two-lane rural roadway section to a three-lane urban roadway section along with intersection geometric improvements at Bilter Road, roadway widening/resurfacing, storm sewer drainage, box culvert extensions, watermain design, roadway lighting, traffic signals and interconnect, maintenance of traffic and staging, ADA compliant sidewalks and property acquisition. Jason was responsible for plan review and quality assurance.

2010, 2011, 2012 & 2013 Landscaping Improvements, College of DuPage – *Glen Ellyn, Illinois* | Design Engineer for the yearly landscape improvement projects throughout the campus. Projects ranged from minor landscaping enhancement to complete reconstruction of campus areas including decorative sidewalks, site furnishings, site lighting and security enhancements. The annual budget for varied from $6 and $9 million.

Building Site Improvements, College of DuPage – *Glen Ellyn, Illinois* | Project Engineer for the design and construction of site civil improvements for various building construction projects. Project included the design and construction administration for utility relocations and services, electrical and lighting improvements, parking lot and roadways, access gates and security improvements, hardscape and pedestrian amenities, irrigation, stormwater design and permitting, erosion control and other ancillary civil improvements. These services were performed for the following buildings:

- *Student Resource Center Berg Instructional Center (SRC/BIC)*
- *Technology Education Center (TEC)*
- *Culinary Arts & Hospitality Center (CHC)*
- *Homeland Security Education Center (HEC)*
- *Physical Education Center (PE)*
- *McAnnich Arts Center (MAC)*
- *Seaton Computer Center (SCC)*
- *West Campus Building Demo & Utility Improvements*
- *College Maintenance Center (CMC)*

College of DuPage Roadway, Parking Lot & Landscaping Improvements, College of DuPage – *Glen Ellyn, Illinois* | Lead Design Engineer for the development of schematic designs and construction documents for the proposed improvements for the 260-acre campus with more than 7,200 parking spaces. Project included reconstruction of parking lots and circulation roadways within the campus, as well as aesthetic and landscaping improvements. Scope of work included designs for improvements of roadways, parking lots, stormwater, underground utility relocation, electrical lighting and irrigation.

143rd Street & LaGrange Road Improvements, Village of Orland Park – *Orland Park, Illinois* | Project and Field Engineer for the reconstruction of roadway and underground utilities at the intersection 143rd Street and LaGrange Road. Project included pavement widening, pavement reconstruction, a new mainline watermain, storm sewer, relocation of electrical and telephone utilities from overhead to underground, streetscape improvements, roadway, pedestrian and outdoor receptacle (holiday) lighting, landscaping, irrigation, retaining walls, traffic signals and property acquisition. Jason was responsible for all of the design and construction plans on the project.

Rehabilitation of Six Structures, KDOT – *Elburn, Illinois* | Project Engineer for rehabilitation of six PPC deck beam bridges. Project included removal of the existing bituminous wearing surface, key way repairs, new concrete wearing surface and the roadway work necessary to complete bridge work. Jason worked with V3's structural group to prepare the roadway and maintenance of traffic plans.

ADA Priority Ramp Design Program, CDOT – *Chicago, Illinois* | Project Engineer for the City of Chicago's reconstruction of high priority, non-compliant alley and intersection crossings to meet the City's ADA curb ramp design criteria. V3 provided survey, design, and construction documentation preparation. Work included removal and replacement of sidewalk, curb, gutter, alley, roadway and drainage structures as pavements markings and signage.

Ravens Glen Forest Preserve Improvements & Trail Extension, Lake County Forest Preserves – *Antioch, Illinois* | Design Engineer for forest preserve improvements and extension of mixed-use trails from the western edge of the site into the Clublands residential development. Proposed improvements included approximately 3.6 miles of aggregate mixed-use trails and one mile of turf equestrian trails along with associated access roadways, parking lots and site amenities including boardwalk crossings of wetlands and floating docks on Timber Lake. Jason was responsible for the design and preparation of construction document and assisted in permitting coordination with IDOT and the Village of Antioch.

Airport Road & Weber Road Intersection Improvements, The Barr Group – *Romeoville, Illinois* | Design Engineer for preparation of plans for roadway improvements on two intersecting arterial streets. The project required detailed maintenance of traffic plans to maintain two lanes of traffic in each direction on Weber Road throughout construction. Jason was responsible for preparation of plans for roadway improvements on two intersecting arterial streets.

North Lake Shore Drive Pavement Overlay, CDOT – *Chicago, Illinois* | Field Engineer for patching and resurfacing of more than 14 lane miles of North Lake Shore Drive. Jason performed daily observation tasks overseeing the repair and adjustment of all storm sewer structures along the project, oversaw installation of 36 ADA ramps and the removal and installation of curb and gutter, and performed daily documentation duties per IDOT and CDOT documentation standards.

I-74 Peoria Reconstruction, IDOT – *Peoria, Illinois* | Resident Technician for the largest IDOT project in downstate Illinois' history. Project included reconstruction of two major urban arterial roadways, the temporary widening of I-74, removal and reconstruction of the Sterling, Gale, University, Broadway, Sheridan and Ellis bridge structures over I-74 and construction of multiple retaining walls and major culverts. Jason provided construction inspection and observation, verification of contractor's staking, quality assurance field materials testing, complete project documentation, preparation of authorizations and partial pay estimates and coordination with private utilities, local businesses and municipalities.

IL Route 64 Reconstruction, IDOT – *Villa Park, Addison & Lombard, Illinois* | Construction Engineer for this $35-million reconstruction project on North Avenue from Addison Road to Villa Avenue in Villa Park and from IL Route 53 to Addison Road in Lombard. Project involved construction, inspection, contract administration, onsite material testing and material quality assurance testing, traffic signal modernization, lighting for the entire length of the project, frontage roads and noise abatement walls.

JONATHAN SHUPTAR, P.G.

PROJECT MANAGER

Jon is a Project Manager and licensed Professional Geologist experienced in environmental consulting, specializing in characterization and interpretation of soil and groundwater contamination. Jon has drilling and sampling field experience. He has conducted investigations in remote locations where the lack of accessibility creates additional challenges and a need for proper planning. Jon is able to interpret environmental data and understand how site conditions relate to applicable regulations. Jon is routinely involved in sample plan development, field and drill site management, reporting, historical research and development of remedial strategies.

YEARS OF EXPERIENCE

V3: 5 | Total: 15

EDUCATION

Bachelor of Arts, Geology, Wheaton College

CONTINUING EDUCATION

GIS Certificate, College of DuPage

ODOT Pre-Qualified for Regulated Materials Review

OSHA 40-Hour HAZWOPER

REGISTRATIONS

Professional Geologist: Illinois, #196.001.1404, 2015

Carpentersville Dam Removal, Forest Preserve District of Kane County – Carpentersville, Illinois | Project Geologist for dam removal design and permitting services of a 10-foot-high, low-head, concrete dam within the Fox River. V3 determined ways to use the existing, historic mill races to bypass water during construction. Services included conducting a bathymetric survey, sampling and testing for environmental concerns, hydraulic modeling, wetland delineation upstream and downstream as well as water management, cost estimating and feasibility review. A riffle or rock feature will be incorporated into V3's restoration design to preserve the site as a valuable destination and sense of place for the community.

Theodore Street Corridor Improvements, City of Joliet – *Joliet, Illinois* | Project Scientist for Phase I of this one-mile roadway widening. The proposed improvements include adding a center turn lane as well as two additional traffic signals along the corridor. Jon was responsible for conducting and authoring the preliminary environmental Site assessment (PESA) to evaluate and report recognized environmental conditions (RECs) that may be encountered for the project. The PESA included assessment of four sites that were determined to contain RECs and 39 sites that were determined to contain de minimis conditions.

Lincoln Yards North Site Preparation & Cleanup, Sterling Bay – *Chicago, Illinois* | Project Geologist for the environmental assessment, remediation and regulatory closure of more 55 acres of assembled land planned for future redevelopment. The land sites include the Former A. Finkl & Sons Co. steel mill, former Lakin General Corporation facility and a former Sims Metal Management scrap metal recycling facility. Jon was responsible for field operations, analytical data evaluation, performing remedial investigations and feasibility studies, assisting with the preparation of remedial alternatives analysis, remedial action plans, remediation specifications and the development of Tier 2 site specific remediation objectives. Jon also led development of the soil management and construction contingency plan which will be used throughout the redevelopment process

**Work performed at previous firm*

167th Street Multi-Use Path, Village of Orland Park – *Orland Park, Illinois* | Project Scientist for this Phase I study for a new, one-mile, multi-use path along 167th Street. Improvements included sidewalk removal, new asphalt path, earth excavation and embankment, retaining wall, grading and reshaping of existing ditches, new storm sewer and pedestrian signals at railroad and roadway intersections. Jon was responsible for conducting and authoring a preliminary environmental site assessment (PESA) to evaluate and report recognized environmental conditions that may be encountered for the project. The PESA included assessment of 38 sites along the proposed route as well as a federal and state database review.

Forest Boulevard Improvements, Village of Park Forest – *Park Forest, Illinois* | Project Scientist for Phase I engineering of this one-mile roadway reconstruction, multi-use path construction and intersection improvements. The project is evaluating elimination of a traffic signal in favor of a roundabout along with a road diet to better utilize public right-of-way for the path and provide a linear park along the Village's retail district.

Wolf Road Shared-Use Path, Village of Western Springs – *Western Springs, Illinois* | Project Scientist for this 10-foot, shared-use path along the west side of Wolf Road from US Route 34/ Ogden Avenue. The path will run approximately 1,800 feet north to the existing Bemis Woods Trail and include a new pedestrian crossing providing improved safety and connectivity from Ogden Avenue to the Forest Preserve trail system.

Special Waste Studies & Uncontaminated Soil Certification | Project Manager and Project Geologist providing environmental consultation and professional engineering certifications for various roadway and infrastructure improvement projects. Jon evaluates environmental concerns on transportation and infrastructure projects performing special waste assessments (SWAs), preliminary environmental site assessments (PESAs), preliminary site investigations (PSIs), construction observation and field screening, prepares hazardous waste determinations, waste profiles and disposal facility acceptance documentation, as well as uncontaminated soil certification in accordance with 35 IAC Part 1100 (CCDD) requirements, and determines soil management and contaminant mitigation strategies based on site-specific criteria. Representative projects include:

- *Tri-State Tollway (I-294) Widening & Rehabilitation, Illinois Tollway – Franklin Park & Schiller Park, Illinois*
- *Special Waste Onsite Consulting Services, Baxter & Woodman & IDOT – Various District 1 Locations, Illinois*
- *Various Environmental Screenings, DuPage County DOT – DuPage County, Illinois*
- *Cedar Road Phase II, Will County DOT – Will County, Illinois*
- *Wolf Road Shared-Use Path, Village of Western Springs – Western Springs, Illinois*
- *Forest Boulevard Improvements, Village of Park Forest – Park Forest, Illinois*
- *Melvina Ditch Reservoir Expansion, Metropolitan Water Reclamation District of Greater Chicago – Bedford Park & Burbank, Illinois*
- *Eola Road Realignment PSI & CCDD, City of Aurora – Aurora, Illinois*
- *Central Park Ice Rink Permanent Paver Pads, Wheaton Park District – Wheaton, Illinois*
- *Prince Pond Engineering Study, Downers Grove Park District – Downers Grove, Illinois*
- *Jackson Pond Expansion, Village of Villa Park – Villa Park, Illinois*
- *Downtown Oak Park Watermain & Sewer Improvements, Village of Oak Park – Oak Park, Illinois*
- *Farrell & Briggs Bicycle & Pedestrian Path, City of Lockport – Lockport, Illinois*
- *North Michigan Avenue Reconstruction & Flood Mitigation, Village of Villa Park – Villa Park, Illinois*
- *John Humphrey Complex, Village of Orland Park – Orland Park, Illinois*

Various Environmental Screenings, DuPage County DOT – *DuPage County, Illinois* | Project Geologist providing professional environmental screening services as requested for various projects in the DuPage County highway system and facilities. Project includes hazardous waste reviews, screening, analyses, preliminary environmental site investigations, preliminary site investigations and clean construction or demolition debris evaluations. Jon was responsible for project scopeing, field operations, data analysis, reporting, budgets and schedules.

Skokie Drainage Ditch Stabilization, East Skokie Drainage District – *Lake Forest, Illinois* | Project Geologist for this stabilization of severely eroding streambanks along one mile of the Skokie River. Stabilization activities included 3,986 linear feet of gabions, 5,344 linear feet of natural or stone toe protection and 936 linear feet of bank reshaping. Jon was responsible for conducting a soil sampling for clean construction demolition debris disposal of excess soils generated from the installation of gabions.

Meadow Square Redevelopment, Taylor Morrison, Inc. – *Rolling Meadows, Illinois* | Project Manager and Project Scientist for this phase II environmental site assessment (ESA) and remediation for the proposed redevelopment of a strip-mall with a dry cleaner and auto maintenance facility. The site was enrolled in the Illinois Site Remediation Program (SRP) and V3 conducted extensive sampling of site conditions for the ESA. Jon authored the Phase II report and oversaw remediation efforts which included processing the site through the Illinois SRP and completing site characterization as well as developing site specific remediation objectives and the remedial action plan. A no further remediation letter was obtained from the IEPA.

Tri-State Tollway (I-294) Widening & Rehabilitation, Illinois Tollway – *Franklin Park & Schiller Park, Illinois* | Project Geologist for environmental operations in support of Phase II design engineering services for the widening and rehabilitation of nearly two miles of I-294 from the new Elgin-O'Hare/Western Access system interchange to the O'Hare Oasis. Jon was responsible for scope, sampling and reporting for the soil management memo as well as characterizing and detailing soil disposal for the proposed construction throughout the two-mile section. He also provided guidance to the Tollway for property acquisition of sites with known environmental conditions.

Redevelopment of Light Manufacturing Facility, Bradford Real Estate Companies – *Harwood Heights, Illinois* | Project Geologist for redevelopment of a former industrial site formerly a part of an ITW Magnaflux manufacturing facility. Solvent impacts to soil and groundwater required that the site be entered into the Illinois Voluntary Site Remediation Program and a no further remediation status was obtained. Jon was responsible for field operations associated with the construction phase of the project, including the development of a soil management and construction contingency plan as well as construction oversight including the oversight of the removal and closure of an abandoned-in-place, 20,000-gallon underground storage tank and closure through the Leaking Underground Storage Tank Program.

Industrial Redevelopment of Former Manufacturing Facility, Molto Properties, LLC – *Niles, Illinois* | Project Geologist for the redevelopment of a former manufacturing facility into a distribution center. As a result of existing site conditions the property was entered into the Illinois Voluntary Site Remediation Program and a no further remediation status was obtained. Jon was responsible for field operations, analytical data evaluation, delineation of impacted area, background research for site history and geologic setting, general report generation including a combined FSI-ROR-RAP-RACR and the development of the soil management and construction contingency plan.

Department of Water Management Task Order Design Requests, City of Chicago Department of Water Management – *Chicago, Illinois* | Project Geologist providing environmental consulting services in support of in-house, term and private contract sewer design. Jon is responsible for preconstruction soil evaluations for clean construction demolition and debris as well as non-special waste disposal of excess soil. Jon's projects include:

- *TOR #17-01 (Two projects)*
- *TOR #18-3 (Three projects)*
- *TOR #21-02 (One projects)*

Hazardous Waste Investigations, IDOT – *Statewide, Illinois* | Project Geologist for this multi-site contract, Jon completed more than 100 preliminary site investigations for potential hazardous waste sites and logged thousands of geoprobe soil borings. Projects included characterizations of IDOT right-of-ways as well as evaluations to support planned IDOT construction activities. Jon also evaluated applications for highway authority agreements submitted to IDOT. He conducted environmental surveys and testing and was the primary responsible for GIS data and development of in-house standards for maintaining geospatial data.*

Red Devil Mines, USFS – *Red Devil, Alaska* | Field Geologist for this remedial investigation responsible for managing drill site operations at wells installed to address data gaps from the initial RI. Red Devil Mine is a mercury ore mine located in a small community located along the Kuskokwim River and access to the town is limited to small aircraft and boats. Jon was responsible for logging bore holes, sampling of contaminated media, mobilization of equipment to the site, oversite of drillers and reporting site operations to the Project Manager.*

**Work performed at previous firm*

Middlesex FUSRAP Program Site, USACE – *Middlesex, New York* | Field Geologist for this feasibility study. For the Middlesex Sampling Plant, Jon managed drill site operations at offsite wells installed to delineate the migration of suspected site related contaminants of concern including uranium and volatile organic compounds. Jon confirmed depth calculations for the projected depth of the targeted fracture beds, logged air-rotary boreholes, operated downhole gamma logging equipment, conducted packer groundwater sampling for VOCs, determined well screen depth intervals and oversaw monitoring well installation.*

Slyvania FUSRAP Program Site, USACE – *New Jersey & Hicksville, New York* | Team Geologist supporting the offsite groundwater and feasibility study for the Sylvania Coring site in Hicksville, New York. His responsibilities included drill site management, logging rotary sonic boreholes, calibration of equipment, VOC and RAD screening of soil cores, groundwater sampling from temporary wells, determination of well screen depth and monitoring well installation.*

Superfund Technical Assessment & Response Team Contract, EPA Region 9 – *Arizona, Nevada & Oregon* | GIS Specialist for two sites with metals contamination spread from mining operations. Jon was responsible for analyzing spatial data, lab analytical data, and field screening data to produce hardcopy maps for reports as well as dynamic maps published online.*

Sierra Club, River Sentinels & River Prairie Group – *DuPage County, Illinois* | Volunteer responsible for analyzing surface water samples collected by other volunteers to monitor the water quality of Salt Creek and the DuPage River in DuPage County. The analysis of the samples involved simple wet chemistry, titrations and utilized a spectrophotometer to analyze samples for phosphorus, nitrogen, ammonia and chloride.*

RAC Program Sites, EPA Region 5 – *Ohio, Indiana & Minnesota* | Team Geologist responsible for the monitoring, maintenance and calibration of turbidity meters surrounding dredging operations, as well as weekly water column sampling at the Ashtabula River site in Ohio. Tasks included:*

- *Sampling river sediment with a Ponar dredge and assisted in the advancement and sampling of vibracores.*
- *Manually measuring the river discharge, observing bathymetric surveys, and provideing FORMS II Lite sample processing.*
- *Participating in the annual groundwater sampling of the PCP-contaminated MacGillis and Gibbs wood-treating site in Minnesota.*
- *Conducted low-flow groundwater sampling of over fifty wells in the vicinity of the site and assisted with FORMS II Lite sample processing.*
- *Field operations of two separate soil sampling events, both of which were conducted in residential areas in South Minneapolis, Minnesota and Evansville, Indiana.*

Playa Gigante Water Resource Study – *El Gigante, Nicaragua* | GIS Specialist facilitating the PhD research of Dr. Gary LaVanchy who was conducting a water resource study along the southwestern coast in El Gigante, Nicaragua to pursue his PhD in Geography from the University of Denver. Rapid development in the region related to the tourism industry was increasing the stress on available freshwater resources and causing tension between local peoples and developers and the research aimed to quantify the available fresh water resources in the coastal village and determine if there were power relationships between stakeholders that would be unequal. Jon's role in the research was to utilize GIS software to delineate watershed in the region, assist in data collection for well inventory and model groundwater elevations based on well water levels.*

**Work performed at previous firm*

PETER SATHISSARAT, P.E.

RESIDENT ENGINEER II

Peter is a Resident Engineer II with experience in construction engineering for various types of infrastructure and has worked on both public and private sector projects. His most recent experience is in sewer and wastewater treatment projects for the City of Joliet as well as other local municipalities.

YEARS OF EXPERIENCE

V3: 22 | Total: 22

EDUCATION

Bachelor of Science, Civil Engineering, University of Illinois

Master of Science, Civil Engineering, University of Illinois

CONTINUING EDUCATION

APWA: Local Agency & Consultant Resident Engineer's Training

IDOT Training:

- *Documentation of Contract Quantities: #17-12525, 2017*
- *Construction Materials Inspection Documentation*
- *DIRTBA Materials Management*
- *Electronic RE*
- *ICORS*
- *Nuclear Density Testing*
- *QC/QA PROGRAM: Portland Cement Concrete Level I*
- *Visual Training*

REGISTRATIONS

Professional Engineer: Illinois, #062-056339, 2003

Eastside Wastewater Treatment Plant Phosphorus Removal, City of Joliet – *Joliet, Illinois* | Resident Engineer for this $18.8-million wastewater treatment plant addition project. Project includes aeration basin modifications, chemical removal facilities, sludge thickening and pumping as well as piping and valve replacement. Project also includes construction of a new administration building and renovation of the existing building into a process control building. Peter coordinates construction activities and acts as a liaison between the designer, contractors and the City.

Richards Street Lift Station Replacement, City of Joliet – *Joliet, Illinois* | Project Manager for this $3.5-million infrastructure improvement project that includes replacing the existing Richards Street lift station as well as installing a gas generator, forcemain, gravity sewer, manholes, lateral connections and ancillary construction. Project included communication with IDOT, utilities and affected stakeholders. V3 prepared a work sequencing plan that minimized the amount of bypass pumping necessary during construction while continuing to keep the existing sewer in operation.

Downtown Joliet Sanitary & Storm Sewer Improvements, City of Joliet – *Joliet, Illinois* | Project Manager for this $5-million improvement project to separate an existing combination sanitary and storm sewer system through the downtown business district. Project included 2,600 feet of storm sewer trunk line installed through bedrock. Multiple redesigns occurred due to unknown utilities and work was performed at night to minimize traffic disruption. Peter provided project oversite and assisted the V3 Resident Engineer with coordination between the various contractors, the designer and the City.

Combined Sewer Overflow Long-Term Control Plan Wet Weather Treatment Facility, City of Joliet – *Joliet, Illinois* | Resident Engineer for this $33.4-million wet weather treatment facility expansion. Project includes construction of concrete tanks, buildings, manholes, junction structures, underground piping, pumping equipment, screening equipment, clarifier equipment, disinfection equipment, associated mechanical and electrical work, site grading, paving and restoration. Peter coordinated construction with various contractors and acted as a liaison between the designer, contractors and the City.

Joliet Aux Sable & Westside Wastewater Treatment Plants, City of Joliet – *Joliet, Illinois* | Project Manager for this $16.6-million wastewater treatment plants expansion. Project includes work at two separate treatment plants involving wastewater treatment facility grit removal system, selectors, oxidation ditch modifications, splitter structure modifications, final clarifiers, chemical feed building, disinfection modifications, pumping modifications, aerobic digester covers, biosolids mixing modifications and a biosolids storage tank. Peter provided project oversite and assisted the V3 Resident Engineer with coordination between various contractors, the designer and the City.

Joliet Combined Sewer Overflow Tunnel, City of Joliet – *Joliet, Illinois* | Resident Engineer for this $21.4-million sewer improvement. Project included construction of an 865-foot-long tunnel under the Des Plaines River, including shafts, piping and other ancillary structures. Significant rock excavation via blasting and hydraulic breaking was required as well as pavement removal and replacement. Peter coordinated construction with various contractors and acted as a liaison between the designer, contractors and the City.

South Hoyne Avenue Sewer Installation, Chicago Department of Water Management – *Chicago, Illinois* | Resident Engineer for $4.7-million sewer installation located on both business and residential streets. Project included installation of drainage structures, private drain connections, four connection structures and nearly one mile of storm sewer improvements. Peter coordinated all work with alderman's offices, various City services, utility companies, businesses and residents.

87th Street Sewer Improvements, Chicago Department of Water Management – *Chicago, Illinois* | Resident Engineer for $7.2-million sewer installation project in both business and residential areas. Project included 1.3 miles of sewer improvements with up to 66-inch diameter, reinforced concrete sewers, pavement restoration, HMA milling, resurfacing, curb, gutter replacement, construction of ADA compliant ramps, sidewalk replacement, pavement markings and watermain cut, cap and replacement. Peter was responsible for coordinating work with alderman offices, various City services, utility companies and stakeholders.

Peterson & Fairfield Avenues Sewer Improvements, Chicago Department of Water Management – *Chicago, Illinois* | Resident Engineer for the $13-million sewer installation project that included drainage structures, private drain connections, modifications to the Metropolitan Water Reclamation District's junction, siphon chambers and more than one mile of storm sewer improvements. Sewers with diameters as large as 80 inches were installed in a business district on an arterial street. Because the project area included both business and residential streets, Peter was responsible for coordinating work with alderman's offices, various City services, businesses and residents.

Edward Hines Jr. VA Hospital Watermain Replacement, U.S. Department of Veterans Affairs – *Hines, Illinois* | Project Manager for this installation of approximately 2,800 linear feet of watermain to replace portions of an aging watermain. A primary project challenge included the need for the entire campus to remain in service during the watermain replacement which was addressed with creative design solutions including pipe boring. Peter was responsible for managing V3's Resident Engineer as well as coordinating work with the Client's construction manager.

143rd Street & LaGrange Road Corridor Improvements, Village of Orland Park – *Orland Park, Illinois* | Resident Engineer for extensive roadway improvements totaling $12 million in pavement widening, pavement reconstruction, new watermain and oversized storm sewer, irrigation, street lighting, landscaping, plantings, brick pavers and numerous decorative landscaping improvements. Existing right-of-way contained several existing utilities that had to be moved, adjusted or maintained along with the proposed utilities, lighting and traffic signals. Peter was responsible for coordinating the work with IDOT's future expansion of LaGrange Road.

Washington Park Stormwater Improvements, Village of Downers Grove – *Downers Grove, Illinois* | Resident Engineer for a $2.9-million storm water detention basin and park improvement. Project consisted of mass earth excavation, storm and sanitary sewer, watermain, cast-in-place concrete retaining walls, softball and soccer fields, parking lot improvements, a basketball court, irrigation system, landscaping and aesthetic features. Peter was responsible for stakeholder communication and acted as a liaison between various contractors and the Village.

JAMES BESSLER

CONSTRUCTION TECHNICIAN III

Jim is a Construction Technician with management and contracting experience involving private and public site work and infrastructure. He is responsible for construction sequencing, project scheduling, cost estimating and personnal and project management. Jim also interacts with owners, engineers and testing services and coordinates all subcontractors.

YEARS OF EXPERIENCE

V3: 6 | Total: 10

EDUCATION

Bachelors of Science, Construction Management, Western Illinois University

CONTINUING EDUCATION

IDOT: Concrete Testing PCC Level 1

OSHA 30-Hour

APWA: Culvert Inspection

ComEd Engineering Quality Assurance, ComEd – *Various Locations, Illinois* | Construction Inspector for civil and structural improvements throughout northern Illinois for more than 300 substation, transmission and distribution projects. Program includes inspection and observing construction to determine whether the work generally conforms to the plans, specifications and approved submittals. Jim provided daily inspection notes, coordinated directly with the ComEd onsite construction manager and documented non-compliant work as well as how and deficiency resolution. Jim's projects included:

- *TSS 101 Itasca*
- *TSS 86 Davis Creek*
- *TSS 46 Des Plaines*
- *TSS 66 East Frankfort*
- *TSS 143 Wolfs Crossing*

John Humphrey Sports Complex Concession Building Renovation, Village of Orland Park – *Orland Park, Illinois* | Construction Manager for the design/build renovation to a 2,200-square-foot concession building. Improvements included full interior demolition and renovation to upgrade bathrooms as well as converting the concession service area from interior to exterior service. Additionally, the asphalt shingle roof was replaced with a standing seam metal roof. The project was completed ahead of schedule.

Lockport Heights Watermain Replacement, Lockport Heights Sanitary District – *Lockport Heights, Illinois* | Construction Manager for design and construction-phase services for the abandonment of a failing watermain that was replaced with approximately 1,600 feet of new C900 PVC, eight-inch watermain. V3 worked with the community to submit a Community Development Block Grant to Will County to finance the watermain replacement. Project challenges included meeting Illinois EPA separation requirements and working within a residential community with water service lines that had not been correctly installed when the homes were constructed.

Niles North Outdoor Athletic Field & Surface Alterations, Niles Township High School District 219 – *Skokie, Illinois* | Construction Manager for general contracting services for improvements to the outdoor athletic facilities at the Niles North High School. Project included new track surfacing and synthetic field drainage as well as eight tennis courts which required significant undercutting of unsuitable subgrade. Jim managed seven subcontractors within a narrow schedule to complete the project during the summer break.

**Work performed at previous firm*

JAMES BESSLER

CONSTRUCTION TECHNICIAN III

Navistar East-West Parking Expansion, Navistar, Inc. – *Lisle, Illinois* | Construction Manager for design and construction of two new parking lots on the Navistar main campus. Project included four-acres with conventional concrete curb and asphalt pavement with associated storm sewer, parking lot lighting, irrigation and landscaping as well as resolution of buried utility conflicts. All construction was performed while maintaining existing traffic control and providing pedestrian access from the surrounding parking lot to the building.

LaGrange Road Corridor Improvements, Village of Orland Park – *Orland Park, Illinois* | Construction Manager for this 6.5-mile streetscape project through the major retail corridor of Orland Park which was completed in conjunction with an IDOT road widening project. Features included widened/decorative sidewalks, raised brick median walls, monument signage, electrical provisions for holiday lighting and all associated irrigation and landscape improvements. Precise coordination was needed to not interrupt IDOT contract work. Jim oversaw daily on-site operations and provided critical communication with the Village and IDOT as well as managing 10 different subcontractors.

Culvert Evaluation & Rating, City of Naperville – *Naperville, Illinois* | Project Manager for the City's corrugated metal culvert evaluation. V3 coordinated with the City for onsite evaluations of more than 50 culverts throughout the City. A rating system was developed in order to determine maintenance needs and produce automated work orders for the Public Works staff.

Navistar Native Areas Restoration, Navistar, Inc. – *Lisle, Illinois* | Construction Manager for design/build services to restore three, high-profile detention basins and native park amenities that totaled eight acres. Project included manually removing invasive species along 2,600 feet of shoreline, selective clearing of dense stands of woody species, custom seed mixes for each treatment are as well as native plant installation to beautify the campus and shoreline stabilization.

Atrium West Parking Rehab, CB Richard Ellis, Inc. – *Rolling Meadows, Illinois* | Construction Manager for this 16,000-square-yard parking lot mill and overly. Jim was responsible for supervising two subconsultants as well as self performing storm sewer improvements. He also prepared bid documents and generated contracts for all subcontractors.

Navistar North Parking Expansion, Navistar, Inc. – *Lisle, Illinois* | Construction Manager for this parking expansion which included removing islands to increase parking spaces as well as 2,650 square yards of asphalt patches and 78,290 square yards of seal coating. Jim self-performed parking lot island removals and supervised the asphalt subcontractors. He also prepared bid documents and generated contracts for all subcontractors.

Cornerstone Parking Lot Renovations, Jones Lang LaSalle Americas, Inc. – *Warrenville, Illinois* | Construction Manager for this 16,000-square-yard parking lot renovation. Jim supervised mill and overlay. He also prepared bid documents and generated contracts for all subcontractors.

Navistar Pavement Assessment & Parking Lot Rehabilitation, Jones Lang LaSalle Americas, Inc. – *Warrenville, Illinois* | Construction Manager for this 49,000-square-foot parking lot rehabilitation. Jim supervised mill and overlay and he was responsible for preparing bid documents and generating contracts for all subcontractors.

Houston Street Utility Replacement & Streetscape Improvement Project, City of Batavia – *Batavia, Illinois* | Construction Manager providing agency construction management services for this improvement project. V3 conceived and implemented the project's delivery system based upon six individual trade contractor packages and an 18-week construction schedule. To meet an aggressive construction schedule, Jim coordinated resolution of unknown dry utility conflicts simultaneously with the installation of new underground utilities including storm sewer, watermain and electrical.

Private Property BMP Evaluation & Design, Metropolitan Water Reclamation District of Greater Chicago – *Justice, Palos Hills & Hickory, Illinois* | Estimator for developing a stormwater best management practice program for private properties in Cook County. Project included public outreach and education, hydraulic and hydrologic modeling, cost estimates and development of detailed drawings. Jim was responsible for developing a detailed cost estimates for the BMPs, including estimates for a single residential property as well as an entire neighborhood or geographic area to provide lower costs due to economies of scale.

**Work performed at previous firm*