Illinois Department of Transportation

DRAFT

Local Public Agency Engineering Services Agreement

Using Federal Funds? ☐ Yes ☒ No

Agreement For: Local (Sales Tax)

Agreement Type: Original

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Lake	Lake	22-00116-09-WR	

Project Number	Contact Name	Phone Number	Email
	Julian Rozwadowski	(847) 377-7506	JRozwadowski@lakecountyil.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Rollins Road	CH A20	1.8mi	

Location Termini: Grand Avenue (western limits) to Washington Avenue (eastern limits)

Add Location / Remove Location

Project Description: The proposed improvements involve roadway widening, channelization, sidewalk, path reconstruction, and potential signal improvements. This project will involve Phase II detailed design to prepare construction documents (ie: detailed design, specifications, cost estimate, land acquisition/negotiations).

Engineering Funding: ☐ MFT/TBP ☐ State ☒ Other — RTA 1/4% Sales Tax

Anticipated Construction Funding: ☐ Federal ☐ MFT/TBP ☐ State ☒ Other — RTA 1/4% Sales Tax

AGREEMENT FOR

☐ Phase I - Preliminary Engineering ☒ Phase II - Design Engineering ☐ Phase III - Construction Engineering

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
V3 Companies	Kurt Corrigan, P.E.	(847) 417-0072	kcorrigan@v3co.com

Address	City	State	Zip Code
7325 Janes Avenue	Woodridge	IL	60517

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

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

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

AGREEMENT EXHIBITS

The following EXHIBITS are attached hereto and made a part of hereof this AGREEMENT:

- ☒ Exhibit A: Scope of Services
- ☒ Exhibit B: Project Schedule
- ☒ Exhibit C: Cost Estimate of Consultant Services (BLR 05513 OR BLR 05514), Direct Costs, and Manhours
- ☒ Exhibit D: Subconsultants Scope and Fee
- ☒ Exhibit E: Disclosure Statements, Insurance, etc.
- ☐ _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA, The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. 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 US Department of Transportation (US DOT) assisted contract. Failure by the Engineer to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
8. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
9. For Preliminary Engineering Contracts:
   (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
   (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affixed the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the DEPARTMENT.
   (c) That the ENGINEER is qualified technically and is thoroughly conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated in Exhibit A (Scope of Services).
10. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Professional Services Selection Act (50 ILCS 510) (Exhibit C).
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.
3. To pay the ENGINEER:
   (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, 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 LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER

shall be due and payable to the ENGINEER.

(c) For Non-Federal County Projects - (605 ILCS 5/5-409)

(1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, 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 in all previous partial payments made to the ENGINEER.

(2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation:

☐ Percent

☐ Lump Sum

☐ Specific Rate

☒ Cost plus Fixed Fee:

Total Compensation = DL + DC + OH + FF

Where:
DL is the total Direct Labor,
DC is the total Direct Cost,
OH is the firm's overhead rate applied to their DL and
FF is the Fixed Fee.

Where FF = (0.33 + R) DL + %SubDL, where R is the advertised Complexity Factor and %SubDL is 10% profit allowed on the direct labor of the subconsultants.

The Fixed Fee cannot exceed 15% of the DL + OH.

5. The recipient shall not discriminate on the basis of race, color, national original or sex in the award and performance of any US 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 US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US 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 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

   The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.

3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.
5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
6. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
7. The ENGINEER and LPA certify that their respective firm or agency:
    (a) has not 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 the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
    (b) has not 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) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
    (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
    (e) has 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 indicated 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 and
    (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

    Where the ENGINEER or LPA is unable to certify to any of the above statements in this clarification, an explanation shall be attached to this AGREEMENT.
8. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of the AGREEMENT or adjustment of the fee for the remaining services may be requested by either party if the overall delay from the unforeseen causes prevents completion of the work within six months after the specified completion date. Examples of unforeseen causes included but are not limited to: acts of God or a public enemy; acts of the LPA, DEPARTMENT, or other approving party not resulting from the ENGINEER's unacceptable services; fire; strikes; and floods.

    If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.
9. This certification is required by the Drug Free Workplace Act (30 ILCS 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 DEPARTMENT 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 on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

    For the purpose of this certification, "grantee" or "Contractor" means a corporation, partnership or an 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 contract or grant of $5,000 or more from the DEPARTMENT, as defined 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 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 (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 to maintain 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.

(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.

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER, LPA and the Department agree to meet the PROJECT SCHEDULE outlined in EXHIBIT B. Time is of the essence on this project and the ENGINEER's ability to meet the PROJECT SCHEDULE will be a factor in the LPA selecting the ENGINEER for future projects. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

10. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).

11. For Preliminary Engineering Contracts:

(a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.

(b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. 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.

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
V3 Companies	36-3252440	$1,596,086.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
TSC	35-0937582	$37,700.00
SAM	74-2704974	$80,000.00
Santacruz	36-3851733	$554,000.00
	Subconsultant Total	$671,700.00
	Prime Consultant Total	$1,596,086.00
	Total for all work	$2,267,786.00

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The Local Public Agency Type: County of Local Public Agency: Lake

By (Signature & Date)

By (Signature & Date)

Local Public Agency: Lake

Local Public Agency Type: County Clerk

Title: Chair, Lake County Board

(SEAL)

Executed by the ENGINEER:

Attest:

Prime Consultant (Firm) Name: V3 Companies

By (Signature & Date)

By (Signature & Date)

Title: Project Manager

Title: Vice President

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	V3 Companies	Lake	22-00116-09-WR

INDEX OF ATTACHMENTS

Attachment A - Scope of Services
Attachment B - Project Schedule
Attachment C - Cost Estimate of Consultant Services (CECS)
Attachment D - Sub Consultant Scope and Fee
Attachment E - Disclosure Statements and Certificate of Liability insurance

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	V3 Companies	Lake	22-00116-09-WR

EXHIBIT A
SCOPE OF SERVICES

To perform or be responsible for the performance of the engineering services for the LPA, in connection with the PROJECT herein before described and enumerated below

SEE ATTACHED.

Scope of Work
Attachment 1 - Land Acquisition Parcel Exhibit
Attachment 2 - Land Acquisition Table Summary

Exhibit A

Scope of Work

Rollins Road - Grand Avenue to Washington Avenue
Phase II Engineering Services

Lake County Division of Transportation
Section No. 22-00116-09-WR

PROJECT DESCRIPTION

Phase II elements include preparation of plans, specifications, and estimates; detailed drainage design: retaining wall and structural engineering design; PSI, plat of highway/legal descriptions; and negotiations for any land acquisitions for roadway improvements on Rollins Road between Grand Avenue and Washington Avenue within the Village of Fox Lake in Lake County, IL. Coordination with utility companies, permitting agencies (including the Village of Fox Lake, Lake County Stormwater Management Commission (SMC), Illinois Department of Transportation (IDOT), and Metra will be part of the work. Phase II will be locally funded and processed through the Lake County Department of Transportation (LCDOT).

Plans will be prepared using Open Roads Designer (ORD) utilizing a workspace from the Illinois Department of Transportation (IDOT). The plans will be prepared in accordance with LCDOT Plan Preparation Guidelines and other LCDOT Consultant Resources.

The following documents or information is anticipated to be received from LCDOT, IDOT, METRA, or the Village of Fox Lake for reference in Phase II Engineering:

- Illinois Route 59 and Grand Avenue plan documents and CAD files for reference.
- Local Drainage Improvement Plans or Development Plans.
- Property information throughout the corridor to verify easements and right of way.
- Title commitments shall be ordered or updated to include all common law roadway dedication areas adjacent to property owner fee simple parcels. Fee simple ownership shall be acquired for all common law roadway areas.

1.1. SUPPLEMENTAL TOPOGRAPHIC SURVEY

The supplemental topographic survey will build upon the previously completed survey. The areas of supplemental topographic survey will encompass:

- Various additional drainage investigation and data collection such as invert and rim elevations or pipe sizes and types, as necessary to supplement the Phase 1 design.

- Various additional miscellaneous topographic survey based on the PDR and LCDOT comments, such as topo needed for offsite property modifications beyond the identified driveway limits.
- Additional topo in the area of Devlin and Route 59 for proposed pedestrian connections to Rollins Road.

The Topographic Survey services will include the following as outlined in the Lake County Division of Transportation Design Survey Procedures, as applicable for the supplemental survey areas:

a. Utilize previous recorded benchmarks for the site.

b. A contour survey with 1'-0" contour intervals shall be prepared from field spot elevations. Spot elevations obtained in the field shall be of sufficient quantity to generate a contour survey which properly represents the ground surface. Additional elevations shall be indicated on the survey as required to establish accurate profiles (including all changes or breaks in grade) and cross-sections of walks, curbs, gutter, pavement edges, and centerlines.

c. Spot elevations shall be shown to the nearest 0.01 foot on all “hard surfaces” and utility structures. Spot elevations in unpaved areas such as grass and dirt shall be accurate to the nearest 0.1 foot.

d. Grid intervals/profiles of 50 feet shall be taken in all fields for offsite hydraulic work (drainage ditches, streams, etc.). Additional shots shall be taken at all sudden grade break lines.

e. Pavement types such as concrete, asphaltic concrete, gravel, etc. shall be indicated.

f. Existing improvements, buildings, and surface features shall be located.

g. All trees (3 inches in diameter and greater) within the Survey Area shall be located. The trees shall be identified by species and size. All trees that are considered bat habitat by V3’s Certified Arborist will also be identified.

h. General outlines of landscaping shrubs and bushes shall be shown.

i. Mean elevations of water in retention ponds, lakes, or streams will be shown as depicted at the time the survey field work was conducted.

j. Right-of-way and property lines shall be calculated from existing monumentation in coordination with record maps, plats, deeds, and title commitments

k. The topographic survey shall incorporate information on existing utility systems adjoining or contained within the survey area which are obtained from city departments or utility companies responding to written or verbal requests for utility records through the Joint Utility Locating Information for Excavators (J.U.L.I.E.) Design Stage/Planning Information process and available for the surveyors use at the time of the survey. Records or Atlas information that is provided to V3 after completion of the survey can be provided to the CLIENT or engineer.

l. Utilities and improvements shall be shown based on visible field verified structures, in coordination with atlas information provided by utility companies through J.U.L.I.E.'s design stage process, if available.

m. All survey data shall be collected in Illinois State Plane Coordinates – East Zone.

1.2. TRAFFIC ANALYSIS

With the anticipated completion of the IL Route 59 and Grand Avenue Improvements, traffic patterns are expected to redistribute due to the re-alignment of Washington Street. The Phase I Study indicated that traffic signal warrant #4 at Devlin Road was nearly met. It was recommended to monitor traffic distribution after project completion to re-assess and conduct a full signal warrant analysis for the County's consideration. The scope of work included under this task are as follows:

a. Traffic counts collect during a four-hour period to confirm the AM and PM peak hours while school is in session at the following intersections:
   i. IL Route 59 at Devlin Road
   ii. Rollins Road and Devlin Road
   iii. Rollins Road and Washington Avenue

b. HCS Analysis of the intersections identified above.

c. Traffic Signal Warrant Analysis at Rollins Road and Devlin Road

1.3. EVALUATION OF ROUNDABOUT VS TRAFFIC SIGNAL STUDY (IF NECESSARY)

During the preferred alternative meeting with the Lake County Division of Transportation (LCDOT), the potential need for a traffic signal at Devlin Road was evaluated. It was determined that if the traffic signal warrant criteria are met, an alternative solution involving a roundabout study should be considered. The scope of work included under this task are as follows:

a. Sidra Analysis for the roundabout

b. Synchro Analysis of the intersections identified in the previous section to evaluate queue lengths with intersection proximity.

c. V3 will provide a technical memorandum summarizing the potential impacts, costs, and overall feasibility of implementing a roundabout instead of a traditional traffic signal for LCDOT's review and concurrence of the proposed traffic control to implement.

d. If a roundabout is determined to be the preferred alternative at the Devlin Road intersection, it would be done as a separate future project.

1.4. TRAFFIC SIGNAL PLANS (IF NECESSARY)

If LCDOT decides to install a traffic signal at Rollins Road and Devlin Road, the work under this task includes the following:

a. Intersection Design Study (IDS) for LCDOT's review and concurrence.

b. Traffic Signal Layout Design in accordance with all applicable IDOT and LCDOT standards and guidelines

c. Construction plans, a construction specification document and a construction cost estimate associated with the new signal.
d. Submittals to LCDOT are anticipated at the preliminary (60%), pre-final (95%) and final (100%) stages.
e. Interconnect relocation plans will be included between Grand Avenue and Washington Avenue. The Devlin Road traffic signal will be included in the interconnect if the traffic signal is incorporated into the project.

Plans

The following is a summary of the plan sheets anticipated at final stage:

Traffic Signal Plans	
Traffic Signal Plan (20-scale) – Rollins Road at Devlin Road	4 sheets
Proposed Cable Plan	1 sheet
Mast-Arm Mounted Street Name Sign & Schedule of Quantities	1 sheet
Traffic Signal Details	10 sheets

1.5. GEOMETRIC UPDATES FOR PHASE II

Finalize any adjustments to the roadway and/or non-motorized travel geometry received from the LCDOT review of the PDR and/or public comments. These modifications will be incorporated as part of the Phase II contract documents. The following geometric refinements are anticipated:

a. Evaluate areas of proposed retaining wall locations along the north side of Rollins Road to provide 2:1 slope with fence to reduce and/or eliminate length of wall, therefore avoiding potential impacts to the existing watermain.
b. Sidewalk and path alignments along Rollins Road to minimize right-of-way impacts, as necessary.
c. As necessary, guardrail evaluation, including length of need calculations, will be included for areas that warrant. These may include, but not limited to, sidewalk or path areas, cross road culvert outlet locations.
d. Upon discussion with Village of Fox Lake, they identified concerns with ponding along the Metra Alley Entrance where the two-way bike path is proposed.
e. Evaluation of horizontal and vertical site distance at each approach for intersecting roadways and/or private entrances, as necessary.
f. Auto-turn will be utilized to verify sideroad, entrance and the Metra Alley geometrics.

1.6. USACE AND LAKE COUNTY PERMIITING, DESIGN, & MITIGATION

Based on the projected 2027 letting date, V3 will prepare and/or renew the environmental clearances, as necessary.

USACE Nationwide Permit 14 Submittal

V3 is of the opinion that the project will require a USACE Nationwide Permit 14 (Transportation Projects) permit. V3 will prepare and submit the required permit documents to the USACE Chicago District for their review and approval. The USACE application submittal will include the following:

a. Cover letter
b. Joint Application Form
c. Wetland Delineation and Assessment Report
d. Project Engineering Plans
e. A project description
f. Information on compliance with Federal and State Endangered Species
g. Discussion of Best Management Practices (BMPs)
h. Soil Erosion and Sediment Control Plans
i. Native Landscape Plan drawings, restoration details
j. Native plant lists
k. 3 Year Monitoring & Management Plan document (MMP), if necessary

The USACE Chicago District, at their discretion, may require a Phase I Archaeological investigation as part of the Nationwide Permitting Process. This request is determined on a project-by-project basis. Should the USACE require a Phase I Archaeological investigation as part of their permit review, a separate scope and fee will need to be provided to the Client.

Lake County SMC Isolated Wetland Permit Submittal

V3 will prepare and submit the Category I wetland and wetland buffer portions of the Lake County WDO to be incorporated into the overall stormwater permit submittal. V3 will address all of the wetland and buffer items identified in the Category I wetland submittal requirements of the Ordinance. Included with the wetland/buffer submittal will be the wetland delineation report, the Lake County SMC/USACE Pre-JD determination letter, a description of the proposed project, the associated buffers for identified wetlands/Waters within the project corridor, and proposed impacts to existing wetlands/Waters will be documented. BMPs and mitigation will also be addressed.

Response to Agency Wetland/Waters Permit Review Comments

Additional coordination will be required following the initial wetland submittal to the USACE and Lake County SMC. This coordination will primarily consist of responding to agency comments and resubmittals to the USACE and Lake County SMC as it relates to wetlands, Waters of the U.S., buffers, and the proposed native BMP and buffer design.

Buffer and BMP Native Planting Plan Design (IF NECESSARY)

If required, V3 will design and submit the native planting design for the proposed corridor. This design will include proposed native plantings, native seed mixes, and planting specifications.

This task will be required if there are any impacts to existing wetland/Waters buffers that will require buffer mitigation. We understand that Lake County currently owns wetland banking credits and we will coordinate with LCSMC and USACE accordingly.

Native Planting 3-Year Monitoring and Management Plan (MMP) (IF NECESSARY)

If required, V3 will prepare and submit the proposed 3-year native monitoring and management plan to Lake County SMC and the USACE for their review and concurrence. This proposed monitoring and management plan will include seed and plant lists, recommended specifications, and management activities to be performed over a 3-year period so that the native plantings and seed that are installed will thrive and become established.

Wetland Project Meetings/Coordination

V3's wetland specialists are available for meetings with the CLIENT, USACE, Lake County SMC, Village of Fox Lake, project contractors, and/or other agency personnel, as required. This task includes one pre-application meeting with the USACE and one pre-application meeting with Lake County SMC. This task also includes minimal project coordination not requiring a separate agreement.

1.7. PRELIMINARY SITE INVESTIGATION

V3 will conduct a special waste screening in accordance with the typical IDOT Bureau of Local Roads & Streets Policies & Procedures. Based on the current understanding of the proposed project, the special waste screening will include the following.

Preliminary Site Investigation (PSI)

The Preliminary Environmental Site Assessment (PESA) conducted in December of 2023, identified 32 sites with Recognized Environmental Conditions (RECs). Based on the findings of the PESA, a Preliminary Site Investigation (PSI) should be conducted to evaluate project soils with regard to reuse, off-site disposal, and construction worker safety. The PSI will be conducted in accordance with Section 20-12.05 of the IDOT Bureau of Local Roads & Streets Manual, Section 27-3.05 of the IDOT Bureau of Design and Environment Manual. The PSI will include the following:

a. A soil sampling plan will be developed based on the estimated excavation depths of proposed construction activities and the historic use of properties adjacent to project ROW.
b. Environmental drilling services will be provided by Earth Solutions, Inc.
c. Soil sampling will be conducted by a V3 geologist or environmental engineer.
d. Sample analysis will be performed by an Illinois NELAP accredited laboratory.
e. Soil samples will be collected into laboratory-provided containers, packaged in the field, and stored on ice until delivery to the laboratory under proper chain-of-custody.
f. The field sampling activities and the lab analytical result will be detailed in the PSI report. The PSI report will include:

i. Brief project summary and propose excavation and/or ROW acquisition associated with the Project.
ii. The proposed sampling plan and the justification for sampling and propose analysis.
iii. Summary of field activities and observations.
iv. Detected concentrations of contaminants of concern based on laboratory analysis.
v. 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.
vi. Delineation of soil management areas based on the soil classifications detailed in Article 669.05 Regulated Substances Management and Disposal of the IDOT Standard Specifications of Road and Bridge Construction Adopted January 1, 2022.
vii. Figures depicting the limits of the soil management areas. (Note: estimated volumes of waste soils requiring disposal will only be included in the PSI if volumes are provided by design engineer).
viii. LPC 662 and 663 forms to certify soils qualifying for CCDD disposal will be included in the appendix of the PSI.

g. Considering the proposed design has not been finalized and the PSI soil sampling is dependent on the proposed excavation, the costs associated with the PSI and soil sampling were based on the following assumptions and could be subject to change depending on the project design and the RECs identified. Proposed costs are based on the following assumptions:

i. Project limits do not extend beyond the limits specified in the Phase I.
ii. One initial field visit to locate proposed boring locations prior to utility locate.
iii. Standard 48-hours for the JULIE utility locate.
iv. A maximum of 8 days of drilling.
v. Up to 60 boring locations with 1 soil sample per boring.
vi. Assumes standard 5 to 7-day turn-around time for lab sample results (expedited turnaround time is available for an added surcharge).

CCDD Pre-Bid Coordination

A local CCDD facility will be contacted to determine specific sampling requirements and procure a "pre-certification" packet for preapproval of the site materials for admittance into the facility prior to the letting. The pre-certification packet will be included in the bid documents.

Based on proximity, it is assumed that Thelen Sand & Gravel, Inc. is one potential CCDD disposal site for potentially excavated soils. In addition to Thelen Sand & Gravel, (2) additional facilities will be contacted for preapproval coordination.

It is understood that Thelen Sand & Gravel has fairly specific sampling requirements for soil acceptance. Prior to sampling the project geologist will coordinate with Thelen during the sample plan development. Based on Thelen's soil testing policy, the assumed sample analysis for project samples includes one or more of the following:

a. VOCs
b. SVOCs
c. Pesticides/Herbicides
d. RCRA 8 Metals (Total and/or TCLP/SPLP)
e. Iron (Total and/or TCLP/SPLP)
f. pH

A sampling approach consistent with Thelen Sand & Gravel's policy will likely be acceptable to other CCDD facilities in the area.

1.8. EXISTING UTILITY MODEL

The following is included under this task:

a. V3 to incorporate available data from Survey and Mapping, LLC (SAM)'s Phase I SUE Quality Level B to create a model using Subsurface Utility Design and Analysis (SUDA). A detailed scope provided by SAM can be found under Attachment D.
b. The model will assist to conduct a utility conflict analysis in relation to the proposed improvements and will include any utility location updates since the initial Phase I work
c. Upon identification of potential conflicts, V3 will coordinate with their subconsultant SAM to identify up to SUE Level B 50 pothole locations as identified in their scope of work.
d. Additionally, the created SUDA model will enable the existing utilities to be included within the cross sections.

SUE Level A/B information will be depicted with a different line style than SUE Level D for further clarification on the plans.

1.9. UTILITY COORDINATION

The following is included under this task:

a. Prepare letters and exhibits as needed to initiate coordination with utility companies within the project corridor.
b. Submit plans to the private utility companies at the preliminary level of completion in order to coordinate any required utility adjustments/relocations. Additional plan submittals at pre-final and final levels of completion will be made as needed for additional coordination of adjustments/relocations.
c. Review and identify potential utility conflicts according to the preferred alternative
d. Attend utility coordination field verification meetings – up to six (6) field meetings with one V3 project team member present.
e. Facilitate monthly coordination meetings as needed, starting after the submittal of preliminary plans to help ensure utility conflicts are addressed and the relocation of utilities is scheduled to be complete prior to the project begins.
f. V3 will review utility relocation permit submittals and provide comments to the LCDOT.

1.10. LAND ACQUISITION SERVICES

With the nature of the roadway widening and potential drainage impacts, it is anticipated that majority of the properties adjacent to the Rollins Road corridor will have some level of land acquisition; whether it is temporary and/or permanent easement or proposed ROW. The preliminary design has identified a potential of 65 parcels that may require land acquisition services.

See Attachments 1 and 2 under Exhibit A for a listing of the anticipated parcels identified during Phase I that may require land acquisition services.

Land Acquisition Evaluation

The potential easement and ROW needs will be evaluated and reduced to the extent possible through final design of the roadway and drainage system. This is anticipated development of potential alternatives and/or additional property modifications in support of the R.O.W. negotiation process and to follow up concerns expressed at the public meeting. Exhibits documenting alternatives and/or additional property modifications will be provided for up to 65 properties, if necessary, with up to 2 alternatives each. Also included are two (2) field meetings with property owners.

Along the 1.75-mile corridor, there are 80 parcels with common law right-of-way (R.O.W.) extending to the centerline of the road. Of these, 65 parcels will require land acquisition services beyond the existing common law R.O.W. The intent is to acquire the common law R.O.W. in fee simple, as well as any additional R.O.W. or easements needed for the project.

Plat of Highways

A Plat of Highway along with legal descriptions shall be prepared conforming to the LCDOT's Plat Guidelines.

The Plat shall also conform to those requirements necessary for recording in Lake County, Illinois and to Section 765 IL CS 205/9 of the Illinois Compiled Statutes. Iron rods (5/8" in diameter) shall be set at new Right-of-way corners and at the intersection of any property lines and new right-of-way lines. Title commitments will be reviewed and processed through CAD for development of the Plat of Highways.

Title commitments required for Phase II and received during Phase I will be updated at an estimated cost of $95 each. It is anticipated 65 parcels will require updated titles. Title commitments required for Phase II and not previously received will be requested. It is assumed that up to 15 common law only parcels may require title commitments at an estimated cost of $750 each. Please note that on recent projects title information has been taking 6-9 months. In the event that negotiations require updated or new title documentation above and beyond the estimated amount included in the costs, the County will be responsible to reimburse these direct costs.

Subconsultant for Land Appraisals/Negotiations Services

Santacruz Land Acquisitions (Santacruz) will perform the land appraisals and negotiations for the project. V3 will coordinate with Santacruz and review and assist with the tracking of acquisition status.

A detailed scope provided by Santacruz can be found under Attachment D.

1.11. GEOTECHNICAL ENGINEERING SERVICES

Supplemental soil borings and a report will be completed for the retaining wall locations.

Subconsultant for Geotechnical Services

Testing Service Corporation (TSC)will perform up to 31 soil borings for the anticipated retaining wall locations. Geotechnical reports will be provided detailing the geotechnical conditions and recommendations for foundation types and groundwater management.

V3 will coordinate with TSC on the locations of borings and review the information provided.

A detailed scope provided by TSC can be found under Attachment D.

1.12. DRAINAGE DESIGN, HYDROLOGIC & HYDRAULIC MODELING, AND PERMITTING

V3's drainage engineers will advance the Phase 1 conceptual drainage design to a 60% preliminary design and 95%/100% final design. The design will meet Lake County standards for roadway drainage and be developed in conformance with the Watershed Development Ordinance. The design will include:

a. Stormwater management design: the storm sewer system designed in Phase 1 will be updated to reflect the final roadway design. Standard Phase 2 drainage design elements

for storm sewers include inlet capacity and design calculations, final hydraulic analysis of storm sewer design, design considerations associated with utility crossings and conflicts, constructability, and construction staging for maintenance of drainage. This will also include design of drainage systems required to capture offsite runoff flowing towards retaining walls, to bring that flow across the wall in a controlled manner.

Most of the roadway discharges into an existing stormwater management system. At the north and south ends of the job, this is a closed storm sewer system. In the center of the project limits, this is a railroad ditch along the railroad. Our calculations will use new Bulletin 75 rainfall and it's likely these offsite/downstream systems were designed with Bulletin 70 (smaller) rainfall amounts; we are assuming that the downstream receiving systems have capacity to handle the incoming flow, even if our Bulletin 75 calculations show otherwise. Upsizing downstream systems (outside the project limits) to accommodate a change in the regulatory definition of a storm event is outside the scope of this project.

The Phase 1 project did explore the potential to reshape the existing railroad ditch to improve capacity, however, the ditch is generally flat and controlled by culverts under the railroad, and there do not appear to be opportunities to improve the ditch. Redesigning the railroad ditch is outside the scope of these services.

Furthermore, at the north and south ends of the job where the project does not change the location of the existing curb and gutter (or only very minimally impacts it), we are planning on re-using the existing drainage system to minimize construction impacts to the existing roadway. We will however evaluate the existing storm sewer systems using the current Bulletin 75 rainfall data to determine if the existing systems are suitable for continued use. The existing storm sewers will be replaced as needed within the project limits.

b. Lake County Watershed Development Permit Submittal Package: V3 will prepare a Lake County WDO report package to demonstrate that the project conforms to the Lake County Watershed Development Ordinance and to support the corresponding permit application. The report will include proposed storm sewer calculations, existing and proposed drainage exhibits, drainage outlet evaluations, floodplain cut/fill calculations, wetland hydrology calculations, isolated depressional area calculations, and a narrative describing the stormwater management plan. This package will be submitted to the Lake County SMC for review and permit issuance. Permit fees shall be paid by Lake County DOT.

c. Floodplain/floodway analysis: The floodplain adjacent to and within the project limits is all within the flood fringe associated with backwater from Duck Lake and Fox Lake.

There is no floodway in the project limits and therefore IDNR-OWR permitting is not required. There is no riverine floodplain and therefore hydraulic river modeling is not included. Preliminary floodplain fill and compensatory storage calculations have been performed in Phase 1. When the roadway cross-sections are finalized, these cut/fill calculations will also be recalculated and the compensatory storage design finalized. There are several exhibits associated with this task and these exhibits / cross-sections will likely be revised 2 to 3 times during the design process due to review comments and design changes. It is expected that floodplain fill is limited to the general area between Elm and Hickory, and that excavation of the far slope of the railroad ditch at 3:1 can create sufficient compensatory storage to mitigate for the floodplain fill.

d. Depressional storage analysis: As shown in Phase 1, the project is expected to include impacts to a regulated depressional storage area, at Ridgeland. The preliminary fill calculations performed in the Phase 1 design will be updated to reflect the final roadway design, and final compensatory storage design and calculations performed. It is expected that the compensatory storage can be provided via excavation of the Lake County DOT parcel at the northeast quadrant of the intersection with Ridgeland.

e. Stormwater detention design: Based on the Phase 1 design, stormwater detention (conformance with the release rate requirements of WDO Section 502) is not required because the project does not meet the thresholds in section 300.07 of the WDO. The project will strive to match the existing release rates at Rose and at Ridgeland, which were both identified as areas with drainage concerns, which may include utilizing new storage created through excavation of the Lake County DOT parcel at the northeast corner of Ridgeland (in excess of the volume needed for compensatory storage) and/or oversized pipes. "Full detention" to meet the regulatory release rates will not be provided and is outside the scope of these services. The discharge calculations at all outlets will be updated from the Phase 1 concept design to reflect the final design.

f. Water quality design: Based on the Phase 1 design, meeting the quantitative standard for runoff volume reduction (503.02) is not required because the project does not meet the thresholds in section 300.07 of the WDO. Best management practices incorporating water quality elements are required per section 504 of the WDO and will be incorporated into the Phase 2 design. It is expected that these may include open-bottom catch basins to promote infiltration, vegetated level spreaders at outfalls, mechanical systems to separate oil and grit, and other similar BMPs.

g. Wetland hydrology analysis: There are three Lake County isolated wetlands that will be impacted by the proposed improvements. An 80%-150% hydrologic analysis will be required for each impacted wetland. This involves delineating a tributary area, developing a CN, and a time of concentration for both the existing and proposed

conditions. These factors are then used to calculate existing and proposed runoff volumes. The Watershed Development Ordinance (WDO) requires the total runoff volume to a wetland after development to be within 80% and 150% of the runoff prior to development for the 2-year, 24-hour storm event. Exhibits and calculations will be provided for each impacted wetland and included in the WDP submittal.

h. Agency coordination and meetings: Coordination meetings will be required along with public hearings and presentations.

i. NPDES Permit: V3 will develop a Stormwater Pollution Prevention Plan (SWPPP) for the proposed improvements along with soil erosion and sediment control plans that meet the requirements defined in Article 6 of the WDO. V3 will supply LCDOT with all of the necessary documents and information required to fill out and submit the NOI permit application. LCDOT will submit the NOI permit application to obtain the required NPDES permit issued by the Illinois EPA.

1.13. CORRIDOR LANDSCAPE DESIGN

The replacement of the existing trees along the roadway will be investigated and designed as necessary. V3 will perform due diligence review, coordinate with LCDOT and the Village of Fox Lake, as needed to establish landscape expectations.

Construction documents will be prepared under the PLANS, SPECIFICATIONS, & ESTIMATES section for landscaping.

Update Corridor Video Rendering

V3 completed a video rendering of the proposed improvements along Rollins Road as part of the Phase I Public Meeting. The video will be updated to reflect the final proposed improvements along Rollins Road.

1.14. VILLAGE OF FOX LAKE WATERMAIN RELOCATION, AS NECESSARY

The preliminary design currently includes retaining walls along the north side of Rollins Road to minimize right-of-way impacts to incorporate the proposed sidewalk. According to available atlas maps received in Phase I, there may be potential conflicts between the proposed wall placement and the existing watermain.

V3 will perform a detailed review of the existing watermain in relation to the proposed retaining walls. Upon determination of potential conflicts, the following is also included as part of this scope:

a. V3 will review the information gathered to determine the preliminary profile of the existing watermain and potential impacts.
b. V3 will provide designs for watermain relocations impacted by proposed walls.

c. V3 will coordinate with the Village of Fox Lake for comments and concurrence.

Watermain Permitting, as necessary

V3 will complete the IEPA and LCDOT permitting required for the proposed watermain improvements.

Plans, Specifications, & Estimates, as necessary

Construction documents will be prepared based on the research of the existing facilities and profile evaluation. Estimates will be prepared for this work that will be included in the Intergovernmental Agreement between the Village of Fox Lake and LCDOT.

1.15. STRUCTURAL DESIGN AND CALCULATIONS

V3's structural engineers will perform detailed structural design for retaining walls and culvert modifications/proposed headwalls.

Retaining Wall Design

To further minimize impacts to existing ROW or other features along the corridor, the PDR identified approximately 3,560' of potential retaining walls. Walls are expected to vary from 1.5' to 5.5' tall. The anticipated heights and associated lengths of retaining wall are as follows:

Walls less than 4' tall (above ground) – approximately 1,850-ft
Walls greater than 4' tall (above ground) – approximately 1,710-ft

These locations will be further evaluated in the roadway design with respect to ROW, slight changes to path layout, and property impacts, to verify the need for the walls. Assuming these walls are determined to be necessary, V3 will complete the detailed structural design. Due to the height of the walls, a TS&L submittal is not anticipated. However, the retaining wall selection process will follow what is outlined in Section 2.3.12 of the IDOT Bridge Manual. The wall type will be evaluated based on geometric and ROW constraints, in addition to geotechnical site conditions and structural/construction feasibility. Furthermore, prior to making a selection, consideration will be given to the overall cost and the anticipated maintenance of the wall. Once all issues are identified and assessed, a recommendation on the retaining wall type will be made. If feasible, the same wall type will be used throughout to provide a consistent aesthetic and allow for a more efficient construction process. Detailed structural design and calculations will be prepared for the proposed retaining walls. These plans and specifications will be provided in the overall construction package.

Headwall Design

V3 will complete the design of new headwalls or headwall modifications, as necessary.

1.16. PLANS, SPECIFICATIONS, & ESTIMATES

Construction plans, specifications, and cost estimate will be prepared for one construction package in accordance with all applicable IDOT and LCDOT standards and guidelines. The plan, specifications, and estimates will comply with the latest edition of the LCDOT Plan Preparation Guidelines. Submittals to the LCDOT are anticipated at the preliminary (60%), pre-final (95%) and final (100%) stages.

Plans

The following is a summary of the plan sheets anticipated at final stage:

Description	**Quantity**
Cover Sheet - NTS	1 sheet
Index of Sheets, Highway Stds, Commitments - NTS	1 sheet
General Notes - NTS	2 sheets
Summary of Quantities - NTS - 350 pay items	13 sheets
Schedule of Quantities - NTS	25 sheets
Earthwork Schedule - NTS	8 sheets
Existing & Proposed Typical Sections - NTS	8 sheets
Alignment, Ties, and Benchmarks - 50-scale single	6 sheets
Removal Plans - 20-scale single	31 sheets
Roadway Plan and Profile - 20-scale	
R P&P - Rollins Road	17 sheets
R P&P – Metra Entrance Alley	1 sheet
R P&P - Holly Avenue	1 sheet
R P&P - Rose Avenue	1 sheet
R P&P - Ridgeland Avenue	1 sheet
R P&P - Woodland Avenue	1 sheet
R P&P - Hillcrest Avenue	1 sheet
R P&P - Highview Avenue	1 sheet
R P&P - Maple Avenue	1 sheet
R P&P - Hickory Avenue	1 sheet
R P&P - Elm Avenue	1 sheet
R P&P - Rainier Way	1 sheet
R P&P - Devlin Road	1 sheet
R P&P - Adams Avenue	1 sheet
R P&P - Jefferson Street	1 sheet
Intersection Grading - 1 sheet per intersection	
IG - Metra Alley	1 sheet
IG - Holly Avenue	1 sheet
IG - Hillside Drive	1 sheet
IG - Sayton Road	1 sheet
IG - Rose Avenue	1 sheet

IG - Ridgeland Avenue	1 sheet
IG - Woodland Avenue	1 sheet
IG - Hillcrest Avenue	1 sheet
IG - Highview Avenue	1 sheet
IG - Maple Avenue	1 sheet
IG - Hickory Avenue	1 sheet
IG - Elm Avenue	1 sheet
IG - Rainier Way	1 sheet
IG - Devlin Road	1 sheet
IG - Adams Avenue	1 sheet
IG - Jefferson Street	1 sheet
Driveway and ADA Ramp Details – LCDOT Detectable Warning Detail to be used.	
ADA - Metra Alley	1 sheet
ADA - Holly Avenue	1 sheet
ADA - Hillside Drive	1 sheet
ADA - Sayton Road	1 sheet
ADA - Rose Avenue	1 sheet
ADA - Ridgeland Avenue	1 sheet
ADA - Woodland Avenue	1 sheet
ADA - Hillcrest Avenue	1 sheet
ADA - Highview Avenue	1 sheet
ADA - Maple Avenue	1 sheet
ADA - Hickory Avenue	1 sheet
ADA - Elm Avenue	1 sheet
ADA - Rainier Way	1 sheet
ADA - Devlin Road & Rollins Road	1 sheet
ADA - Devlin Road & Garfield Avenue	1 sheet
ADA - Adams Avenue	1 sheet
ADA - Jefferson Street	1 sheet
# of Residential and Commercial Driveways on Rollins Road (10)	5 sheets
# of Residential and Commercial Driveways on Side Roads (25)	13 sheets
Maintenance of Traffic Plan - 50-scale double plan	
MOT Cover Sheet	1 Sheet
MOT GN	2 sheets
MOT Typs	4 sheets
MOT Plans - Pre-Stage & 3 Stages Rollins Road	28 sheets
Soil Erosion and Sediment Control Plan - 50-scale double plan	
EC Notes	1 sheet
EC Plans - Ex. Cond & 3 Stages (Rollins Road)	28 sheets
EC Details	4 sheets
Drainage Plan and Profile - 20-scale	

Proposed Drainage Plan & Profiles	31 sheets
Drainage Schedules	2 sheets
Drainage Details	1 sheet
Drainage Grading Plans	
Depressional Storage & Floodplain Compensatory Storage Grading Plans	3 sheets
Traffic Signal Plans at Devlin Road, If Necessary (see list under Task 1.4)	16 sheets
Temporary Signal Plans	
Temporary Signal Plans (20-scale)	12 sheets
Temporary Interconnect Plan	5 sheets
Temporary Cable Plan	1 sheet
Proposed Interconnect Plans	
Proposed Interconnect Plans (50-scale)	
Proposed Interconnect Plans	5 sheets
Interconnect Details	2 Sheets
Signing and PM Plan - 20-scale single	
Sign Schedule	1 sheet
Proposed Signing & Pavement Marking Plan	17 sheets
Landscape Plans - 20-scale double	
Proposed Landscape Plan	9 sheets
Proposed Planting Schedule	1 sheet
Landscape Legend & Details	1 sheet
Structural Plans	
Retaining Wall Plans	10 sheets
Headwall Plans	2 sheets
Soil Borings (32 borings; 2 per sheet)	16 sheets
Cross Sections - 5 scale; 3 per sheet	
Rollins Road cross sections 8800' @ 50' + 10 driveways	62 sheets
All Side Road cross sections 2500' @ 50'+ 25 driveways	25 sheets
LCDOT Standard Details (2 per sheet)	10 sheets
IDOT Standard Details (1 per sheet)	75 sheets

Total estimated number of sheets = 552 sheets

Construction Specifications

A construction specification document will be prepared for the project to provide standard requirements and work requirements for pay items used on the project. The document will include standard LCDOT front end documents and specifications (to be provided by LCDOT), applicable IDOT supplemental, recurring, BDE, BLR and District One special provisions and project specific special provisions. Project specific special provisions will be prepared as needed for items not covered by IDOT standard specifications, LCDOT standard specifications or IDOT special provisions. The SWPPP will be included within the special provisions.

Construction Cost Estimate and Quantities

A list of standard pay items needed for the project will be compiled for a unit price bid. Quantities for each item will be calculated based on the project design. The list of pay items and quantities will be the basis for the Summary of Quantities in the plans and the Construction Cost Estimate. The cost estimate will consist of unit prices based on research of archived bid tabs. The construction cost estimate will be submitted at the preliminary (60%), pre-final (95%) and final (100%) stages.

Estimate of Time

An estimate of time will be developed based upon pay items and quantities to determine an estimate of reasonable completions dates for the project. The estimate of time will be submitted at the pre-final (95%) and final (100%) plan stages.

1.17. PUBLIC OUTREACH

V3 will continue public outreach as an extension of the coordination effort from Phase I. It is anticipated that these efforts will include:

a. Maintenance of the property owner mailing list.
b. Semiannual project updates for distribution by the municipality and/or LCDOT. This is anticipated to consist of design status updated for a web page.

1.18. AGENCY / COORDINATION MEETINGS

V3 anticipates attending the following meetings throughout the Phase II design process. These meetings are in addition to other meetings discussed separately within this scope.

a. Up to seven (7) LCDOT meetings:
    i. One (1) project kick-off meeting (In-Person)
    ii. One (1) LCSMC drainage coordination meeting, as necessary (Virtual).
    iii. Five (5) plan review/project-status meetings (2 In-Person, 3 Virtual).
b. Railroad coordination with Metra as needed (Virtual).
c. IDOT Permit Coordination
d. Up to twelve (12) meetings with local agencies to discuss design issues, project status, schedule, or meet with other review agencies (up to 2 - V3 Project Team members present) (4 In-Person, 8 Virtual).

Hours for meetings will also include preparation time prior to meetings and subsequent preparation of meeting minutes.

1.19. QUALITY ASSURANCE/QUALITY CONTROL

Throughout the duration of the project, V3 will perform in-house quality control reviews to ensure that the plans, special provisions, EOPCC, and other computations or assumptions (which form the basis of the deliverable), are accurate and meet the standards and guidelines for the

element or system. These quality control reviews will occur prior to submittal of any deliverable to the LCDOT or other review agency. Prior to the pre-final (95%) and final (100%) plan submittals, the V3 Construction Engineering Division will perform a constructability review. Disposition of Comments will be provided after the 60% plan submittal (with the 95% submittal), the 95% (with the 100% submittal) and 100% submittals.

1.20. ADMINISTRATION AND MANAGEMENT

Throughout the duration of the project (Phase II), the following administrative and management tasks will be performed:

a. Preparation of a project work plan which addresses schedule, deliverables, staffing, communication procedures and invoicing/progress reporting procedures
b. Internal project team meetings/coordination
c. Contract administration and budget control
d. Scope Creep Log
e. Invoice and billing reviews
f. Sub-consultant coordination

1.21. BID SUPPORT & COORDINATION

During the bidding phase, V3 will:

a. Provide responses to bidder questions and answer RFI's that arise during the bidding phase.
b. V3 will support LCDOT with addendums to perspective bidders as required to interpret or clarify the Bid Documents as well as answer any questions that may come up during the bidding process.
c. If requested, assist the LCDOT in reviewing the bid proposals and prepare a recommendation of award of contract letter.

1.22. PHASE III SUPPORT / COORDINATION

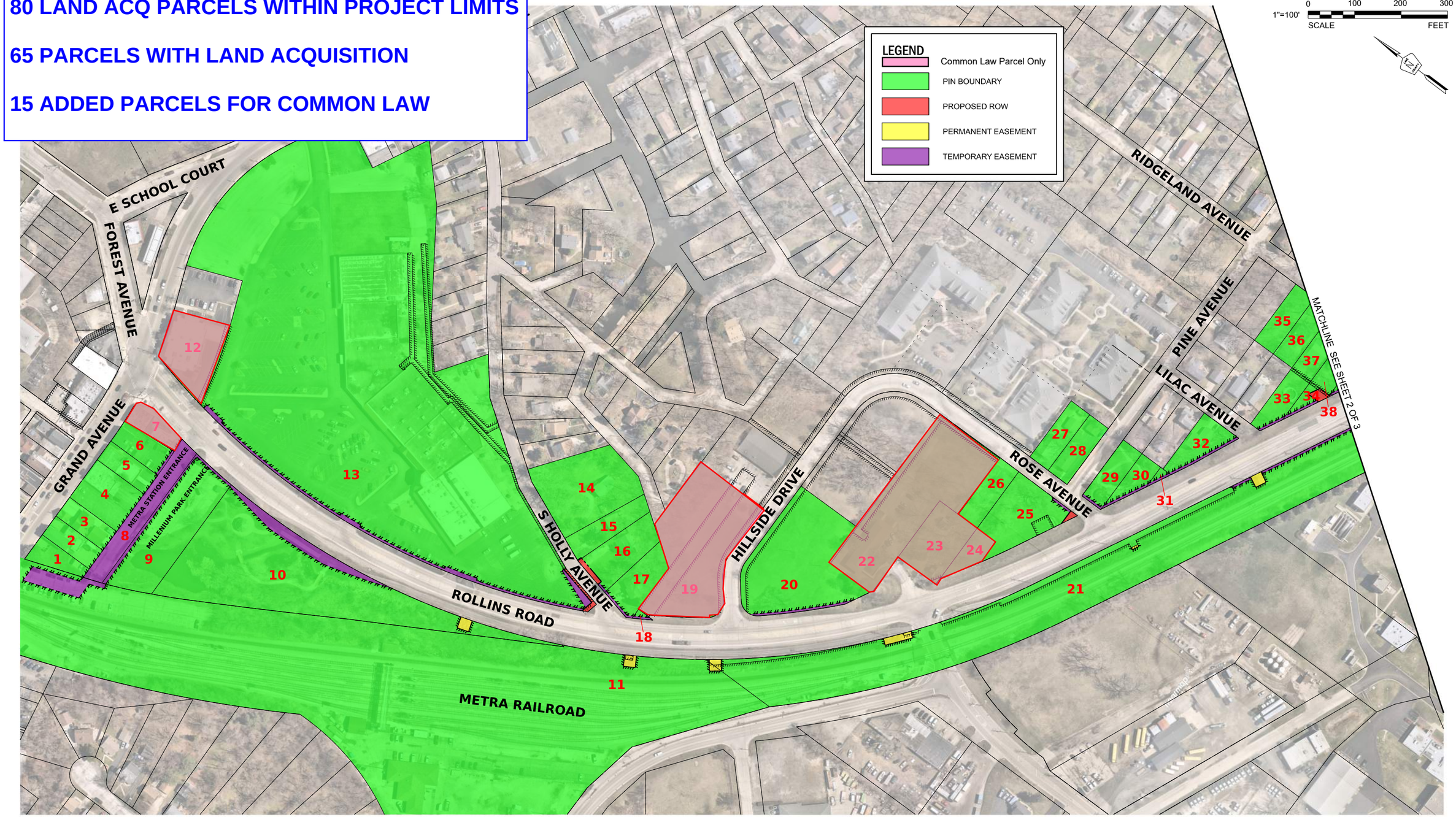
Under this task, V3 will:

a. Review shop drawings
b. Attend any necessary field meetings
c. RFI Response Assistance
d. Assist the LCDOT with special waste/CCDD issues that may arise during construction.

80 LAND ACQ PARCELS WITHIN PROJECT LIMITS

65 PARCELS WITH LAND ACQUISITION

15 ADDED PARCELS FOR COMMON LAW



V3 Companies

LAKE COUNTY
DIVISION OF TRANSPORTATION

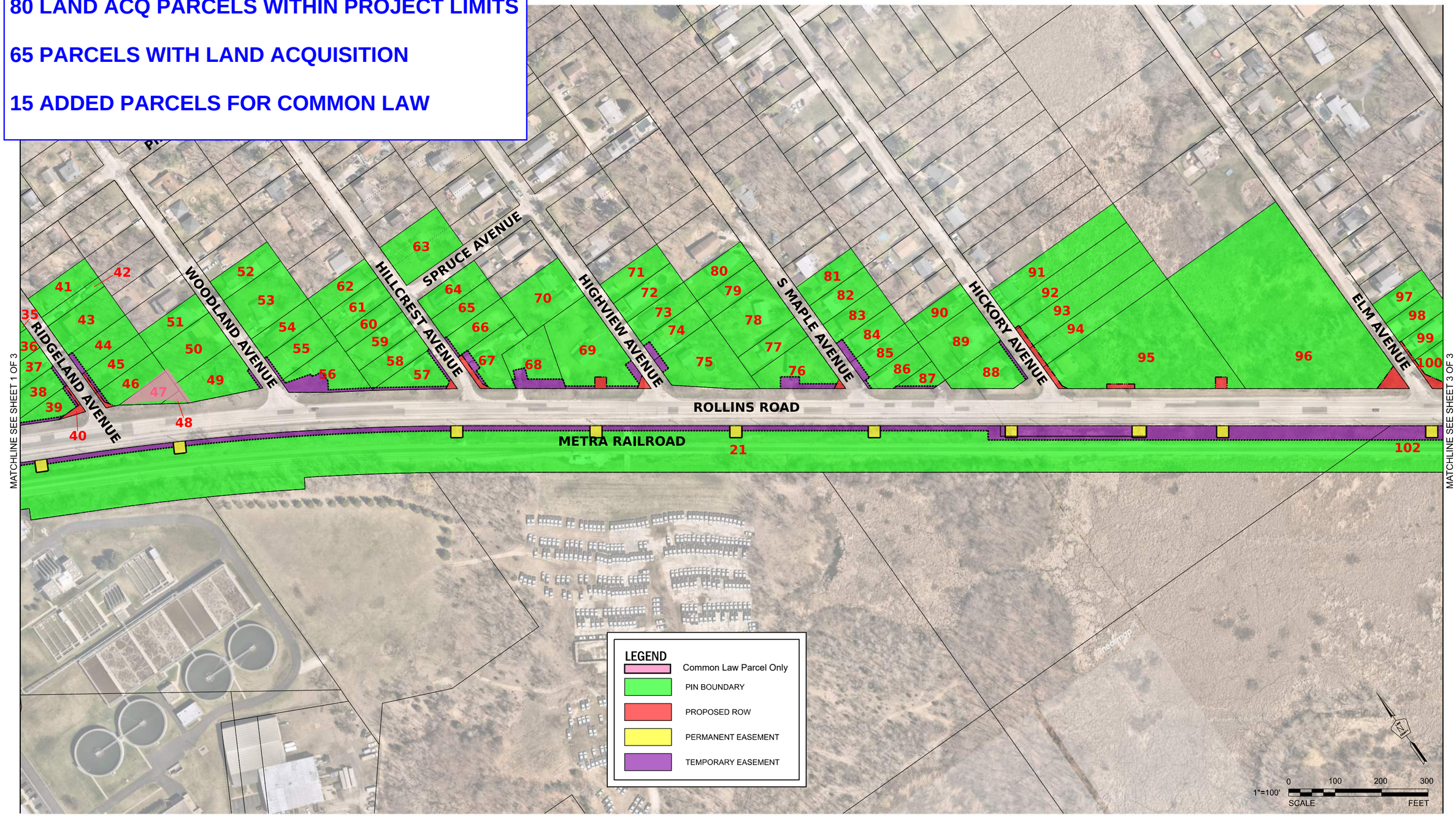
LAKE COUNTY ILLINOIS

ANTICIPATED LAND ACQUISITION EXHIBIT

80 LAND ACQ PARCELS WITHIN PROJECT LIMITS

65 PARCELS WITH LAND ACQUISITION

15 ADDED PARCELS FOR COMMON LAW



V3 Companies

LAKE COUNTY
DIVISION OF TRANSPORTATION

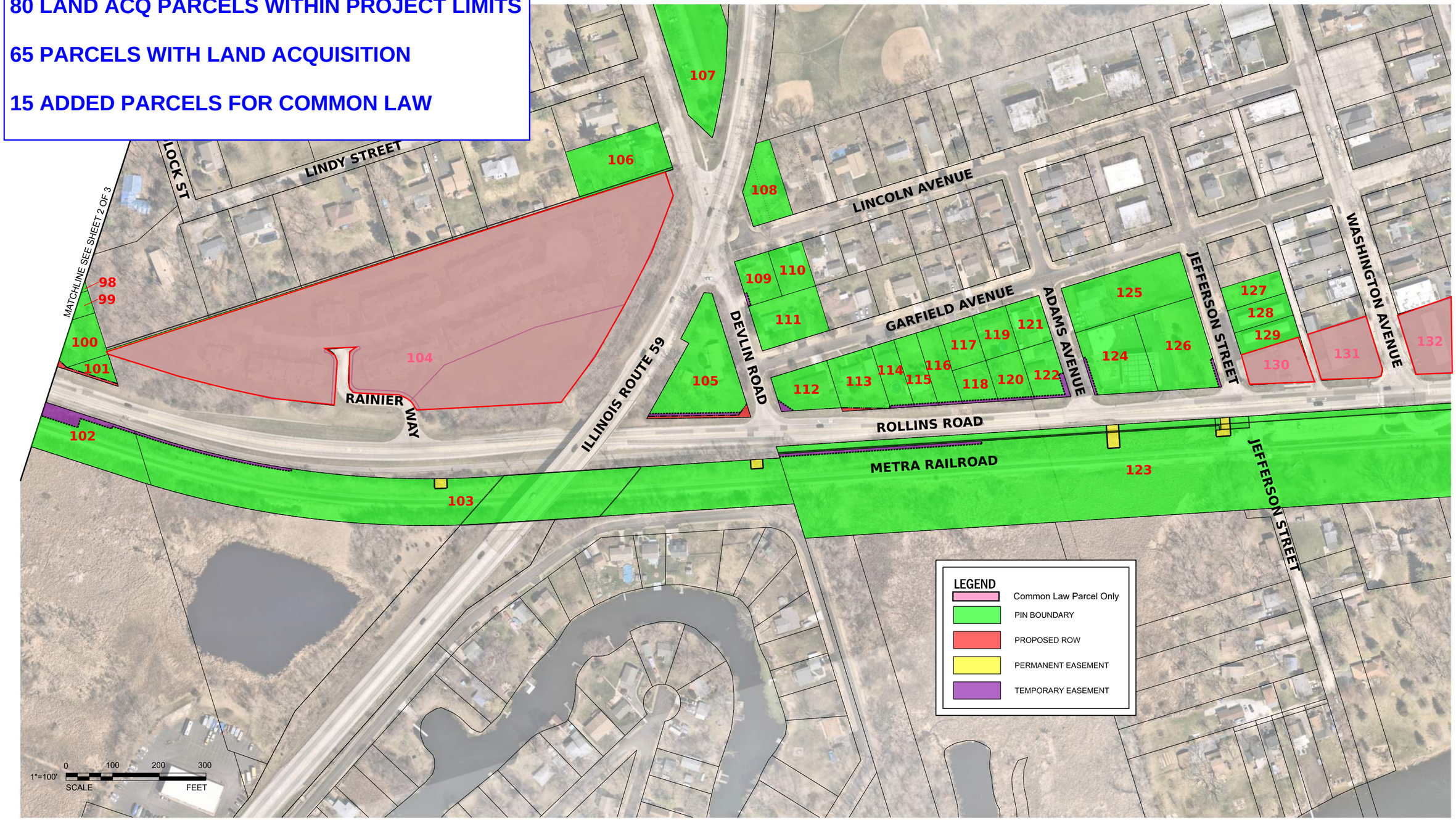
LAKE COUNTY ILLINOIS

ANTICIPATED LAND ACQUISITION EXHIBIT

80 LAND ACQ PARCELS WITHIN PROJECT LIMITS

65 PARCELS WITH LAND ACQUISITION

15 ADDED PARCELS FOR COMMON LAW



V3 Companies

LAKE COUNTY
DIVISION OF TRANSPORTATION

LAKE COUNTY ILLINOIS

ANTICIPATED LAND ACQUISITION EXHIBIT

PHASE 1 STUDY: ROLLINS ROAD IMPROVEMENTS **DATE** **Nov-24**

LAND ACQUISITION SUMMARY

												PR RIGHT-OF-WAY		PR PERMANENT EASEMENT		PR TEMPORARY EASEMENT		
#	PIN	Tax Payer Name	Taxpayer City	Taxpayer State	Taxpayer Zip	Parcel Address	Parcel City	State	Parcel Zip	COMMON LAW ONLY (Additional TCs to order)	LAND ACQ REQUIRED	ROW SF	ROW AC	PERM EASE SF	PERM EASE AC	TEMP EASE SF	TEMP EASE AC	NOTES
1	05-09-217-001	PETER W DUDA	BARRINGTON	IL	60010-1252	25 E GRAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
2	05-09-217-002	PETER W DUDA	BARRINGTON	IL	60010-1252	27 E GRAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
3	05-09-200-023	SOCCOR INVESTMENTS LLC	RIVER FOREST	IL	60305-1937	29 E GRAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
4	05-09-200-052	STEPHEN DAVID WEINER	HALLANDALE BEACH	FL	33009-7604	33 E GRAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
5	05-09-218-001	ANNETTE HAMPTON	LAKE VILLA	IL	60046-5769	35 E GRAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
6	05-09-218-002	37 EAST GRAND AVENUE LLC	FOX LAKE	IL	60020-1446	37 E GRAND AVE STE 102	FOX LAKE	IL	60020		YES		0.00		0.00	310.9	0.01	Alley resurfacing
7	05-09-218-003	MIN HUI CHEN & RONG XIANG LIN	FOX LAKE	IL	60020-1826	41 E GRAND AVE	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	Sidewalk replacement adjacent to Rollins
8	05-09-200-041	VILLAGE OF FOX LAKE	FOX LAKE	IL	60020-1538	0 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00		0.00	14,338.6	0.33	Enitre Metra entrance parcel for alley improvements
9	05-09-200-042	VILLAGE OF FOX LAKE	FOX LAKE	IL	60020-1538	4 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00		0.00	2,326.0	0.06	Alley and path improvements and grading
10	05-09-200-043	VILLAGE OF FOX LAKE	FOX LAKE	IL	60020-1538	0 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00	646.2	0.02	6,959.7	0.16	Path reconstruction in Millenium Park area; Perm easement for drainage outlet
11	05-09-200-049	REGIONAL TRANSPORTATION AUTHORITY	CHICAGO	IL	60661-5717	32 NIPPERSINK RD	FOX LAKE	IL	60020		YES		0.00	893.6	0.03	4,968.9	0.12	Parking Lot resurfacing; Perm easements for drainage outlets
12	05-09-219-001	US BANK CORPORATE REAL ESTATE C/O: C/O RYAN PTS DEPT. 908	HOUSTON	TX	77056-8169	55 E GRAND AVE	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
13	05-10-108-004	FOX LAKE TOWN CENTER LLC	ADDISON	IL	60101-1147	65 E GRAND AVE	FOX LAKE	IL	60020		YES	750.6	0.02		0.00	6,578.6	0.16	Holly Ave roadway reconstruction and pavement removal; Reconstructing 3 driveways along Rollins
14	05-10-100-239	BEATA D STARUK	FOX LAKE	IL	60020-1848	37 S HOLLY AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
15	05-10-100-127	ANGELO J UMLAUF	FOX LAKE	IL	60020-1848	43 S HOLLY AVE	FOX LAKE	IL	60020		YES	18.0	0.01		0.00		0.00	Holly Ave roadway reconstruction
16	05-10-100-128	GERARDO GUTIERREZ RUIZ	FOX LAKE	IL	60020-1848	45 S HOLLY AVE	FOX LAKE	IL	60020		YES	661.8	0.02		0.00	110.9	0.01	Roadway Grading limits and driveway reconstruction
17	05-10-100-129	DB&E MANAGEMENT LLC	RICHMOND	IL	60071-9607	49 S HOLLY AVE	FOX LAKE	IL	60020		YES		0.00		0.00	417.4	0.01	Roadway Grading limits and driveway reconstruction
18	05-09-400-002	THE COUNTY OF LAKE	LIBERTYVILLE	IL	60048-1329	0 US HIGHWAY 12	FOX LAKE	IL	60020		YES		0.00		0.00	198.8	0.01	Roadway Grading limits
19	05-10-301-028	SMART2INVEST LLC C/O: HAREESH KUMAR KOMURAVELLI	KATY	TX	77494-0103	20 HILLSIDE DR	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
20	05-10-301-035	HILLSIDE BUSINESS PARK, LLC	INGLESIDE	IL	60041-9208	21 HILLSIDE DR	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
21	05-10-300-030	REGIONAL TRANSPORTATION AUTHORITY	CHICAGO	IL	60661-5717	0 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00	7,774.1	0.18	43,844.0	1.01	Perm easements for drainage outlets; Temp easements for grading and comp storage (51+50 to 62+00)
22	05-10-301-023	MCS REAL ESTATE PROPERTY GROUP LLC	FOX LAKE	IL	60020-1825	21 ROLLINS RD	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
23	05-10-301-060	DB&E MANAGEMENT LLC	RICHMOND	IL	60071-9607	15 DENA AVE	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
24	05-10-301-056	DB&E MANAGEMENT LLC	RICHMOND	IL	60071-9607	19 DENA AVE	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
25	05-10-301-058	DB&E MANAGEMENT LLC	RICHMOND	IL	60071-9607	0 ROSE AVE	FOX LAKE	IL	60020		YES	306.7	0.01		0.00	231.1	0.01	Roadway Grading limits and ROW corner clip
26	05-10-301-005	DB&E MANAGEMENT LLC	RICHMOND	IL	60071-9607	18 ROSE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
27	05-10-301-007	RYAN M CMUNT	FOX LAKE	IL	60020-1827	19 ROSE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
28	05-10-301-008	ROGER D SCHROEDER	FOX LAKE	IL	60020-1827	21 ROSE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
29	05-10-306-001	VS PARADISE PARK LLC	BIRMINGHAM	MI	48009-6226	25 ROSE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	262.6	0.01	Roadway Grading limits
30	05-10-306-002	VS PARADISE PARK LLC	BIRMINGHAM	MI	48009-6226	23 ROSE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	543.9	0.02	Roadway Grading limits
31	05-10-306-003	VS PARADISE PARK LLC	BIRMINGHAM	MI	48009-6226	0 ROSE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	265.4	0.01	Roadway Grading limits
32	05-10-306-010	JUOZAS, LILIA & ELVIS SAKALAUSKAS	FOX LAKE	IL	60020-1818	30 LILAC AVE	FOX LAKE	IL	60020		YES		0.00		0.00	831.3	0.02	Roadway Grading limits
33	05-10-307-004	DANUTA TOSZA	FOX LAKE	IL	60020-1818	0 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00		0.00	299.6	0.01	Roadway Grading limits
34	05-10-307-005	DANUTA TOSZA	FOX LAKE	IL	60020-1818	28 ROLLINS RD	FOX LAKE	IL	60020		YES	703.7	0.02		0.00	404.0	0.01	Roadway Grading limits
35	05-10-307-008	KENNE D YOUNG	FOX LAKE	IL	60020-1503	30 RIDGELAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
36	05-10-307-009	TIMOTHY S FICK	FOX LAKE	IL	60020-1860	32 RIDGELAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
37	05-10-307-010	FORTUNATO VILLEGAS	FOX LAKE	IL	60020-1860	34 RIDGELAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
38	05-10-307-011	ARTURO SALINAS	FOX LAKE	IL	60020-1860	36 RIDGELAND AVE	FOX LAKE	IL	60020		YES		0.00		0.00	257.7	0.01	Driveway reconstruction + Proposed roadway grading
39	05-10-307-012	RICHMOND CABRAL	DARIEN	IL	60561-1648	38 RIDGELAND AVE	FOX LAKE	IL	60020		YES	250.0	0.01		0.00	797.9	0.02	Proposed Retaining wall
40	05-10-307-013	MARY C DIORIO	LAKE FOREST	IL	60045-0296	37 ROLLINS RD	FOX LAKE	IL	60020		YES	586.3	0.02		0.00		0.00	ROW corner clip
41	05-10-308-003	ORVILLE & DOREEN LUEBBERS	FOX LAKE	IL	60020-1861	29 RIDGELAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
42	05-10-308-023	ORVILLE & DOREEN LUEBBERS	FOX LAKE	IL	60020-1861	31 RIDGELAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
43	05-10-308-024	ROGELIO ALBITER	FOX LAKE	IL	60020-1861	33 RIDGELAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
44	05-10-308-006	ANITA HOWELL	SACRAMENTO	CA	95835-1880	35 RIDGELAND AVE	FOX LAKE	IL	60020		YES		0.00		0.00	500.0	0.02	Roadway Grading limits
45	05-10-308-007	CHRISTOPHER BAYLEN & CHI YI	MORTON GROVE	IL	60053-1622	37 RIDGELAND AVE	FOX LAKE	IL	60020		YES	250.0	0.01		0.00	250.0	0.01	Proposed Retaining wall
46	05-10-308-008	ROBINSON LLC	BAKERSFIELD	CA	93312-6821	39 RIDGELAND AVE	FOX LAKE	IL	60020		YES	298.0	0.01		0.00	151.6	0.01	Proposed Retaining wall and corner clip
47	05-10-308-009	LAKE COUNTY DIVISION OF TRANSPORTATION	LIBERTYVILLE	IL	60048-0220	0 ROLLINS RD	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
48	05-10-308-010	MARY C DIORIO	LAKE FOREST	IL	60045-0296	34 ROLLINS RD	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
49	05-10-308-027	NADINE AUGUSTIN COLOGENE	LAKE VILLA	IL	60046-0028	42 WOODLAND AVE	FOX LAKE	IL	60020		YES		0.00		0.00	244.4	0.01	Driveway reconstruction and grading limits
50	05-10-308-026	SARAH L BECKER	FOX LAKE	IL	60020-1858	38 WOODLAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
51	05-10-308-017	KATHERINE E BUSH	FOX LAKE	IL	60020-1858	36 WOODLAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
52	05-10-309-007	JAMES D & JOLENE M DINWIDDLE	FOX LAKE	IL	60020-1859	37 WOODLAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
53	05-10-309-041	DAVID J BECKER	FOX LAKE	IL	60020-1859	39 WOODLAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
54	05-10-309-010	MAREK & ELZBIETA HILLER	FOX LAKE	IL	60020-1859	41 WOODLAND AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
55	05-10-309-034	ERON GUNDELACH	FOX LAKE	IL	60020-1859	43 WOODLAND AVE	FOX LAKE	IL	60020		YES		0.00		0.00	302.1	0.01	Driveway reconstruction
56	05-10-309-037	BRYAN L DAVIS	FOX LAKE	IL	60020-1859	45 WOODLAND AVE	FOX LAKE	IL	60020		YES		0.00		0.00	3,433.3	0.08	Realigned driveway and Rollins Road grading limits
57	05-10-309-030	CAROL S GERTZ	FOX LAKE	IL	60020-1867	54 HILLCREST AVE	FOX LAKE	IL	60020		YES	257.5	0.01		0.00	1,189.5	0.03	Roladway grading limits and corner clip
58	05-10-309-029	ANTHONY M ALVINO	FOX LAKE	IL	60020-1867	52 HILLCREST AVE	FOX LAKE	IL	60020		YES		0.00		0.00	12.6	0.01	Roadway Grading limits
59	05-10-309-028	RAYMOND BROWN III	FOX LAKE	IL	60020-1867	50 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
60	05-10-309-027	COURTNEY E LEWIS	FOX LAKE	IL	60020-1867	48 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
61	05-10-309-026	ANA MUNOZ	FOX LAKE	IL	60020-1867	46 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
62	05-10-309-025	MARIAELENA & NALLELY I GALVEZ	FOX LAKE	IL	60020-1867	42 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
63	05-10-310-010	ENRIQUE & ANA GARCIA MUNOZ	FOX LAKE	IL	60020-1814	43 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
64	05-10-313-001	JULIO A DELGADO	FOX LAKE	IL	60020-1814	47 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
65	05-10-313-002	JULIO A DELGADO	FOX LAKE	IL	60020-1814	49 HILLCREST AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
66	05-10-313-003	JULIO A DELGADO	FOX LAKE	IL	60020-1814	51 HILLCREST AVE	FOX LAKE	IL	60020		YES		0.00		0.00	250.0	0.01	Roadway grading limits
67	05-10-313-004	MICHAEL SEDANO	FOX LAKE	IL	60020-1850	57 HILLCREST AVE	FOX LAKE	IL	60020		YES	929.8	0.03		0.00	867.0	0.02	Proposed corner clip, retaining wall, and driveway reconstruction
68	05-10-313-017	AMY GRAMZA	FOX LAKE	IL	60020-1877	59 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00		0.00	2,700.0	0.07	Driveway Reconstruction
69	05-10-313-018	MARCIANO & HORLANDA MARTINEZ	FOX LAKE	IL	60020-1851	56 HIGHVIEW AVE	FOX LAKE	IL	60020		YES	1,052.0	0.03		0.00	1,323.0	0.04	Roadway grading limits and corner clip
70	05-10-313-019	JEFFREY P & ELVA B WISH	FOX LAKE	IL	60020-1851	54 HIGHVIEW AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
71	05-10-314-004	ELLEN W VOGEL	FOX LAKE	IL	60020-1852	57 HIGHVIEW AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
72	05-10-314-005	ANA SMITH	FOX LAKE	IL	60020-1852	59 HIGHVIEW AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
73	05-10-314-006	MARA L MERCER	FOX LAKE	IL	60020-1852	61 HIGHVIEW AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
74	05-10-314-007	JOAQUIN A MARTINEZ	FOX LAKE	IL	60020-1852	63 HIGHVIEW AVE	FOX LAKE	IL	60020		YES		0.00		0.00	562.8	0.02	Driveway reconstruction
75	05-10-314-014	JASON SCHLIEGER	FOX LAKE	IL	60020-1852	65 HIGHVIEW AVE	FOX LAKE	IL	60020		YES		0.00		0.00	475.4	0.02	Driveway reconstruction
76	05-10-401-031	HUMBERTO HERRERA	INGLESIDE	IL	60041-8527	74 S MAPLE AVE	FOX LAKE	IL	60020		YES	254.1	0.01		0.00	1,777.0	0.05	Proposed corner clip for roadway and driveway reconstruction easement
77	05-10-401-035	ADAM J & DORENA BIRKENBACH	FOX LAKE	IL	60020-1862	70 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	

PHASE 1 STUDY: ROLLINS ROAD IMPROVEMENTS **DATE** Nov-24

LAND ACQUISITION SUMMARY

												PR RIGHT-OF-WAY		PR PERMANENT EASEMENT		PR TEMPORARY EASEMENT		
#	PIN	Tax Payer Name	Taxpayer City	Taxpayer State	Taxpayer Zip	Parcel Address	Parcel City	State	Parcel Zip	COMMON LAW ONLY (Additional TCs to order)	LAND ACQ REQUIRED	ROW SF	ROW AC	PERM EASE SF	PERM EASE AC	TEMP EASE SF	TEMP EASE AC	NOTES
78	05-10-401-034	GREGORY W BROOKS	FOX LAKE	IL	60020-1862	68 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
79	05-10-401-028	JAYSON S PFAU	FOX LAKE	IL	60020-1862	62 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
80	05-10-401-027	JENNIFER ROWLAND	FOX LAKE	IL	60020-1862	60 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
81	05-10-410-009	TLC RESIDENTIAL PROPERTIES, LLC	LAKE VILLA	IL	60046-8589	63 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
82	05-10-410-010	FRANCINE D KAUTZER	FOX LAKE	IL	60020-1863	65 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
83	05-10-410-011	ARTHUR R VOGT	FOX LAKE	IL	60020-1863	71 S MAPLE AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
84	05-10-410-012	JAMES M ANDRONACO	FOX LAKE	IL	60020-1863	73 S MAPLE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	750.0	0.02	Driveway reconstruction and grading limits
85	05-10-410-013	RAYMUNDO TORRES	FOX LAKE	IL	60020-1863	75 S MAPLE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	750.0	0.02	Driveway reconstruction and grading limits
86	05-10-410-014	MICHAEL MESA	FOX LAKE	IL	60020-1863	77 S MAPLE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	105.0	0.01	Roadway grading limits
87	05-10-410-015	MICHAEL MESA	ROUND LAKE BEACH	IL	60073-1515	79 S MAPLE AVE	FOX LAKE	IL	60020		YES		0.00		0.00	430.6	0.01	Roadway grading limits
88	05-10-410-030	ANDRES MONTES & GLORIA RAMIREZ	FOX LAKE	IL	60020-1853	82 S HICKORY AVE	FOX LAKE	IL	60020		YES		0.00		0.00	500.0	0.02	Driveway reconstruction
89	05-10-410-032	VALERIE J KNOPP	FOX LAKE	IL	60020-1853	80 S HICKORY AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
90	05-10-410-027	CHARLES J & ASHLEY KOLTERMAN	FOX LAKE	IL	60020-1853	66 S HICKORY AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
91	05-10-411-033	EDWARD R ANGSTEN	FOX LAKE	IL	60020-1854	69 S HICKORY AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
92	05-10-411-034	JAMIE & MICHELLE J HARRISON-MOBERG	FOX LAKE	IL	60020-1854	71 S HICKORY AVE	FOX LAKE	IL	60020		YES	40.9	0.01		0.00		0.00	Proposed roadway curb or agg shoulder outside existing ROW
93	05-10-411-018	SHARON JOY TAYLOR TRUST	ROUND LAKE HEIGHTS	IL	60073-1035	73 S HICKORY AVE	FOX LAKE	IL	60020		YES	500.0	0.02		0.00		0.00	Proposed roadway curb or agg shoulder outside existing ROW
94	05-10-411-028	ERIK LUSZOWIAK	FOX LAKE	IL	60020-1854	75 S HICKORY AVE	FOX LAKE	IL	60020		YES	500.0	0.02		0.00		0.00	Proposed roadway curb or agg shoulder outside existing ROW
95	05-10-411-029	EVELYN L CROSKEY	FOX LAKE	IL	60020-1854	77 S HICKORY AVE	FOX LAKE	IL	60020		YES	1,849.0	0.05		0.00		0.00	Proposed roadway curb or agg shoulder outside existing ROW; Proposed Easement is for Drainage
96	05-10-411-031	MUNWAR JATOI	ROUND LAKE HEIGHTS	IL	60073-1158	86 ELM AVE	FOX LAKE	IL	60020		YES	1,707.4	0.04		0.00		0.00	Proposed corner clip for roadway + drainage
97	05-10-405-042	RACHEL L GOODOF	FOX LAKE	IL	60020-1806	97 ELM AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
98	05-10-405-043	ZACHARY PODSIADLIK & JAIME WILSON	FOX LAKE	IL	60020-1806	99 ELM AVE	FOX LAKE	IL	60020		NO		0.00		0.00		0.00	
99	05-10-405-044	MARIA ORTIZ	FOX LAKE	IL	60020-1806	101 ELM AVE	FOX LAKE	IL	60020		YES	250.0	0.01		0.00		0.00	Proposed ROW for driveway culvert replacement
100	05-10-405-095	KELLY S HERFF WHEATON	FOX LAKE	IL	60020-1806	105 ELM AVE	FOX LAKE	IL	60020		YES	1,083.9	0.03		0.00		0.00	Proposed ROW for proposed drainage improvements
101	05-15-200-009	PETER F & PETER G JAKSTAS	RICHMOND	IL	60071-9802	500 IL ROUTE 59	FOX LAKE	IL	60041		YES	595.4	0.02		0.00		0.00	Proposed ROW for maintenance behind retaining wall
102	05-15-200-012	REGIONAL TRANSPORTATION AUTHORITY	CHICAGO	IL	60661-5717	35955 N ROLLINS RD	FOX LAKE	IL	60020		YES		0.00	625.0	0.02	6,803.2	0.16	Grading limits and compensatory storage (51+50 to 62+00)
103	05-15-200-013	REGIONAL TRANSPORTATION AUTHORITY	CHICAGO	IL	60661-5717	0 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00	994.6	0.03	1,722.2	0.04	Temp easement for grading limits; Perm easements for drainage outlets
104	05-15-209-008	ANGEL VENEGAS	FOX LAKE	IL	60020-2000	236 RAINIER WAY	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
105	05-15-200-022	JASON A BRAUNSDORF	FOX LAKE	IL	60041-9349	409 IL ROUTE 59	FOX LAKE	IL	60041		YES	1,399.1	0.04		0.00	972.1	0.03	Proposed corner clip for roadway, proposed ROW for retaining wall, and proposed temporary easement for wall construction
106	05-10-405-078	CHRISTINE E DAWSON	FOX LAKE	IL	60041-8402	310 DEVLIN RD	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
107	05-11-300-035	2018 IAVF TIMBER OAKS LLC	PONTE VEDRA BEACH	FL	32082-8208	215 DEVLIN RD	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
108	05-14-101-015	PAUL T VROMAN	FOX LAKE	IL	60041-9201	402 LINCOLN AVE	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
109	05-14-104-001	KLASINSKI JR, S & KLASINSKI SR, S	FOX LAKE	IL	60041-9223	401 LINCOLN AVE	FOX LAKE	IL	60041		YES		0.00		0.00	137.2	0.01	
110	05-14-104-002	IWONA G SZCZYGIEL STEPIEN	HAWTHORN WOODS	IL	60047-8080	403 LINCOLN AVE	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
111	05-14-104-009	PAUL G SCHULZE	FOX LAKE	IL	60041-8810	400 GARFIELD AVE	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
112	05-14-107-019	MARCOS MARTINEZ	FOX LAKE	IL	60041-9382	403 GARFIELD AVE	FOX LAKE	IL	60041		YES		0.00		0.00	303.6	0.01	Regrading drainage low spot
113	05-14-107-003	RODOLFO & GUADALUPE MARTINEZ	ANTIOCH	IL	60002-1651	407 GARFIELD AVE	FOX LAKE	IL	60041		YES	411.7	0.01		0.00		0.00	Retaining wall
114	05-14-107-023	DAVID SAIDIO	FOX LAKE	IL	60041-9382	411 GARFIELD AVE	FOX LAKE	IL	60041		YES		0.00		0.00	257.3	0.01	Retaining wall
115	05-14-107-024	DAVID SAIDIO	FOX LAKE	IL	60041-9382	411 GARFIELD AVE	FOX LAKE	IL	60041		YES		0.00		0.00	257.3	0.01	Retaining wall
116	05-14-107-025	DAVID SAIDIO	FOX LAKE	IL	60041-9382	411 GARFIELD AVE	FOX LAKE	IL	60041		YES		0.00		0.00	257.3	0.01	Retaining wall
117	05-14-107-007	RAUL LUNA JR & ALBERT GONZALEZ GOMEZ	FOX LAKE	IL	60041-9382	415 GARFIELD AVE	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
118	05-14-107-010	RAUL LUNA JR & ALBERT GONZALEZ GOMEZ	FOX LAKE	IL	60041-9382	415 GARFIELD AVE	FOX LAKE	IL	60020		YES		0.00		0.00	386.0	0.01	Retaining wall
119	05-14-107-008	DANIEL & DIANA LYN GRISCHEAU	FOX LAKE	IL	60041-9382	417 GARFIELD AVE	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
120	05-14-107-011	DANIEL GRISCHEAU	FOX LAKE	IL	60041-9382	417 GARFIELD AVE	FOX LAKE	IL	60020		YES		0.00		0.00	386.0	0.01	Retaining wall
121	05-14-107-020	DEYSI C MOYA GARCIA	FOX LAKE	IL	60041-9530	295 GARFIELD AVE	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
122	05-14-107-026	SHAHRIAR GHARAGOZLU	ROUND LAKE BEACH	IL	60073-2645	418 ROLLINS RD	FOX LAKE	IL	60041		YES		0.00		0.00	855.1	0.02	Driveway + Roadway Reconstruction + retaining wall
123	05-14-100-022	REGIONAL TRANSPORTATION AUTHORITY	CHICAGO	IL	60661-5717	0 ROLLINS RD	FOX LAKE	IL	60020		YES		0.00	2,145.0	0.05	2,388.5	0.06	Temp easment for grading limits
124	05-14-108-003	M7 OIL CORPORATION	FOX LAKE	IL	60041-9701	500 ROLLINS RD	FOX LAKE	IL	60041		YES		0.00		0.00	416.9	0.01	Driveway reconstruction
125	05-14-108-008	JANET D SOLAR	FOX LAKE	IL	60041-9533	123 ADAMS ST	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
126	05-14-108-007	M7 OIL CORPORATION	FOX LAKE	IL	60041-9701	500 ROLLINS RD	FOX LAKE	IL	60041		YES		0.00		0.00	313.9	0.01	Roadway grading limits
127	05-14-109-003	ROBERT WARDEN	FOX LAKE	IL	60041-9744	125 JEFFERSON ST	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
128	05-14-109-004	EVERGREEN PROPERTY HOLDINGS, LLC	MARTINSVILLE	IN	46151-5932	127 JEFFERSON ST	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
129	05-14-109-005	EVERGREEN PROPERTY HOLDINGS, LLC	MARTINSVILLE	IN	46151-5932	129 JEFFERSON ST	FOX LAKE	IL	60041		NO		0.00		0.00		0.00	
130	05-14-109-017	MICHAEL E SEAY	FOX LAKE	IL	60041-9701	514 ROLLINS RD	FOX LAKE	IL	60041	X	NO		0.00		0.00		0.00	
131	05-14-109-018	LINCOLNWAY INC	MORRISON	IL	61270-0188	136 WASHINGTON ST	FOX LAKE	IL	60020	X	NO		0.00		0.00		0.00	
132	05-14-110-006	ROY A MILLER TRUST	ANTIOCH	IL	60002-0063	517 WASHINGTON ST	FOX LAKE	IL	60041	X	NO		0.00		0.00		0.00	
									TOTAL AREA		0.00	14,656.0	0.46	13,078.4	0.33	115,977.98	2.89	

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	V3 Companies	Lake	22-00116-09-WR

EXHIBIT B
PROJECT SCHEDULE

SEE ATTACHED.

Lake County - Division of Transportation **Exhibit B**

Section No. 22-00116-09-WR - Rollins Road - Grand Avenue to Washington Avenue

Project Schedule - Phase II Engineering

Task	1st Quarter			2nd Quarter			3rd Quarter		
	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Notice To Proceed from LCDOT									
Project Meeting with the LCDOT									
Data Collection and Review									
Topographic Survey - Supplemental									
Existing Utility Model									
Tree Survey (subsequent to Pre-Final Submittal to capture change in tree sizes)									
Geotechnical Borings for Wall Locations									
SUE Level A/B Potholing									
Geometric Updates for Phase II									
Value Engineer to reduce/eliminate wall locations to avoid watermain conflicts									
Metra Alley Entrance Alley bike route evaluation									
Project Meeting (Preliminary Findings) - LCDOT									
Agency Coordination & Meetings									
Village of Fox Lake									
Metra									
Roadway Drainage Design									
Roadway Drainage (storm sewer & ditch design) refinements									
Stormwater Management Analysis									
Stormwater Anaylsis									
Hydraulic Modeling									
Floodplain Fill/Compensatory Storage									
BMP/Landscape Plan									
Buffer/BMP Native Planting Design									
Incorporate Landscape Plan									
Native Planting 3-year Monitoring and Management Plan									
Structural Engineering Design									
Retaining Walls									
Preliminary Site Investigation									
Traffic Data Collection & Evaluation (Pending Washington Ave traffic patterns mormalize and school in session)									
Traffic Data Collection									
Traffic Analysis & Signal Warrant									
Evaluations of Roundabout vs Traffic Signal (IF NECESSARY)									
Traffic Signal Plans at Devlin Road (IF NECESSARY)									
Project Meeting - LCDOT									
Phase II Engineering - Plans, Specifications and Estimate									
Develop Plans, Specifications and Estimate									
LCDOT Review (60%)									
Adress Comments									
Pre-Final (95%)									
Adress Comments									
Final (100%)									
Utility Coordination									
Field Meetings with Utility Companies									
Incorporate Relocations/Redesign to Avoid Conflicts									
Permitting									
IDOT Permit Submittal									
USACE Nationwide Permit 14									
LCSMC/Public Agency Wetland Submittal									
LCSMC Watershed Development Permit									
NPDES Permit									
Plat of Highways/Easements/Legal Descriptions									
Develop Plat of Highways & Legal Descriptions									
Address Comments									
Land Acquisition/Negotiations									
Public Coordination (Prior to Letting with updates to Project Video Rendering)									
Quality Assurance/Quality Control									
Administration and Management									
Final Plans - Project Out to Bid (100%)									

Lake County - Division of Transportation **Exhibit B**

Section No. 22-00116-09-WR - Rollins Road - Grand Avenue to Washington Avenue

Project Schedule - Phase II Engineering

Task	4th Quarter												2026 1st Quarter			2026 2nd Quarter			2026 3rd Quarter			2026 4th Quarter			2027 1st Quarter		
	Oct-25				Nov-25				Dec-25																		
Notice To Proceed from LCDOT																											
Project Meeting with the LCDOT																											
Data Collection and Review																											
Topographic Survey - Supplemental																											
Existing Utility Model																											
Tree Survey (subsequent to Pre-Final Submittal to capture change in tree sizes)																											
Geotechnical Borings for Wall Locations																											
SUE Level A/B Potholing																											
Geometric Updates for Phase II																											
Value Engineer to reduce/eliminate wall locations to avoid watermain conflicts																											
Metra Alley Entrance Alley bike route evaluation																											
Project Meeting (Preliminary Findings) - LCDOT																											
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Land Acquisition/Negotiations																											
Public Coordination (Prior to Letting with updates to Project Video Rendering)																											
Quality Assurance/Quality Control																											
Administration and Management																											
Final Plans - Project Out to Bid (100%)																											

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	V3 Companies	Lake	22-00116-09-WR

EXHIBIT C

Cost Estimate of Consultant Services (BLR 05513 or BLR 05514)

SEE ATTACHED.

CECS BLR 05514 Phase II
V3 Manhours Breakdown
V3 Direct Cost Breakdown

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	22-00116-09-WR

Prime Consultant (Firm) Name	Prepared By	Date
V3 Companies	EIH / KRC	12/16/2024

Consultant / Subconsultant Name	Job Number
V3 Companies	

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	**24**	**MONTHS**	**OVERHEAD RATE**	**165.00%**
START DATE	**1/1/2025**		**COMPLEXITY FACTOR**	**0**
RAISE DATE	**1/1/2026**		**% OF RAISE**	**2.00%**
END DATE	12/31/2026			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	1/1/2025	1/1/2026	12	50.00%
1	1/2/2026	1/1/2027	12	51.00%

The total escalation = 1.00%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	22-00116-09-WR

Consultant / Subconsultant Name	Job Number
V3 Companies	

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

MAXIMUM PAYROLL RATE	**86.00**
ESCALATION FACTOR	**1.00%**

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Director	$86.00	$86.00
Senior Project Manager - Wetland	$79.77	$80.57
Senior Project Manager - Trans & Mun	$75.55	$76.30
Project Manager II - NR	$72.45	$73.17
Project Manager I - Transportation	$72.38	$73.10
Senior Project Manager - Survey	$69.18	$69.88
Project Manager I - Environmental	$58.59	$59.18
Senior Project Engineer	$58.07	$58.65
Project Engineer I	$54.58	$55.12
Project Scientist II	$47.23	$47.70
Project Surveyor	$46.13	$46.59
Engineer II	$41.12	$41.53
Engineer I	$40.91	$41.32
Landscape Designer I	$40.75	$41.16
Scientist II	$28.40	$28.69
Design Technician III	$53.36	$53.89
Survey Crew	$46.19	$46.65
Survey Technician	$40.33	$40.73
Project Coordinator	$26.28	$26.54

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	22-00116-09-WR

Consultant / Subconsultant Name	Job Number
V3 Companies	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
TSC		
SANTACRUZ		
SAM		
Total	**0.00**	**0.00**

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	22-00116-09-WR

Consultant / Subconsultant Name	Job Number
V3 Companies	

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	1	$1,402.00	$1,402.00
Vehicle Owned or Leased	$32.50/half day (4 hours or less) or $65/full day			$0.00
Vehicle Rental	Actual Cost (Up to $55/day)			$0.00
Tolls	Actual Cost			$0.00
Parking	Actual Cost			$0.00
Overtime	Premium portion (Submit supporting documentation)			$0.00
Shift Differential	Actual Cost (Based on firm's policy)			$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	1	$5,710.00	$5,710.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			$0.00
Project Specific Insurance	Actual Cost			$0.00
Monuments (Permanent)	Actual Cost			$0.00
Photo Processing	Actual Cost			$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			$0.00
CADD	Actual Cost (Max $15/hour)			$0.00
Web Site	Actual Cost (Submit supporting documentation)			$0.00
Advertisements	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			$0.00
Recording Fees	Actual Cost			$0.00
Transcriptions (specific to project)	Actual Cost			$0.00
Courthouse Fees	Actual Cost			$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)	1	$58,414.00	$58,414.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Title Commitments (additional)	$750/PIN	15	$750.00	$11,250.00
Title Commitments (updates)	$95/PIN	65	$95.00	$6,175.00
Quality Counts Traffic Data collection	Actual cost	1	$1,870.00	$1,870.00
6' long decaled fiberglass witness posts (WP)	Installed at each ROW corner	100	$30.00	$3,000.00
			TOTAL DIRECT COSTS:	**$87,824.00**

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number
22-00116-09-WR

Consultant / Subconsultant Name
V3 Companies

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 165.00%

COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
1.1 SUPPLEMENTAL TOPOGRAPHIC SURVEY	122	48	2,552	4,211	842		7,605	0.34%
1.2 TRAFFIC ANALYSIS	1,870	72	3,962	6,537	1,307		11,806	0.52%
1.3 EVALUATION OF ROUNDABOUT VS TRAFFIC SIGNAL STUDY (IF NECESSARY)		120	6,718	11,084	2,217		20,019	0.88%
1.4 TRAFFIC SIGNAL PLANS (IF NECESSARY)		112	5,744	9,478	1,896		17,118	0.75%
1.5 GEOMETRIC UPDATES FOR PHASE II		294	14,745	24,328	4,866		43,939	1.94%
1.6 USACE AND LAKE COUNTY PERMITTING, DESIGN, & MITIGATION	61	316	13,065	21,558	4,312		38,935	1.72%
1.7 PRELIMINARY SITE INVESTIGATION	58,719	239	9,173	15,136	3,027		27,336	1.21%
1.8 EXISTING UTILITY MODEL		70	3,450	5,693	1,139	80,000	90,282	3.98%
1.9 UTILITY COORDINATION	365	240	14,388	23,740	4,748		42,876	1.89%
1.10 LAND ACQUISITION SERVICES	20,425	1192	67,659	111,638	22,328	554,000	755,625	33.32%
1.11 GEOTECHNICAL ENGINEERING SERVICES		22	1,428	2,357	471	37,700	41,956	1.85%
1.12 DRAINAGE DESIGN, HYDROLOGIC & HYDRAULIC MODELING, AND PERMITTING	1,168	430	24,989	41,232	8,246		74,467	3.28%
1.13 CORRIDOR LANDSCAPE DESIGN		74	3,126	5,158	1,032		9,316	0.41%
1.14 VILLAGE OF FOX LAKE WATERMAIN RELOCATION, AS NECESSARY		74	3,870	6,385	1,277		11,532	0.51%
1.15 STRUCTURAL DESIGN AND CALCULATIONS		408	22,189	36,612	7,322		66,123	2.92%
1.16 PLANS, SPECIFICATIONS, AND ESTIMATES	2,280	4569	251,188	414,460	82,892		748,540	33.01%
1.17 PUBLIC OUTREACH	1,920	56	3,635	5,998	1,200		10,833	0.48%
1.18 AGENCY / COORDINATION MEETINGS	427	168	13,364	22,051	4,410		39,825	1.76%
1.19 QA/QC	342	160	12,739	21,019	4,204		37,962	1.67%
1.20 ADMINISTRATION / MANAGEMENT		204	13,368	22,058	4,412		39,838	1.76%
1.21 BID SUPPORT & COORDINATION		60	3,841	6,338	1,268		11,447	0.50%
1.22 PHASE III SUPPORT/COORDINATION	122	192	10,935	18,042	3,608		32,585	1.44%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
Subconsultant DL							$0.00	
Direct Costs Total ===>	$87,821.00						**$87,821.00**	3.87%
TOTALS		9120	506,128	835,113	167,024	671,700	2,267,786	100.00%
			1,341,241					

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number
22-00116-09-WR

Consultant / Subconsultant Name
V3 Companies

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1.1 SUPPLEMENTAL TOPOGRAPHIC SURVEY			1.2 TRAFFIC ANALYSIS			1.3 EVALUATION OF ROUNDABOUT VS TRAFFIC SIGNAL STUDY (IF NECESSARY)			1.4 TRAFFIC SIGNAL PLANS (IF NECESSARY)			1.5 GEOMETRIC UPDATES FOR PHASE II		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Director	86.00	426.0	4.67%	4.02				2	2.78%	2.39	8	6.67%	5.73	2	1.79%	1.54	8	2.72%	2.34
Senior Project Manager - Wetland	80.57	40.0	0.44%	0.35															
Senior Project Manager - Trans & Mun	76.30	522.0	5.72%	4.37				16	22.22%	16.96	24	20.00%	15.26						
Project Manager II - NR	73.17	94.0	1.03%	0.75															
Project Manager I - Transportation	73.10	897.0	9.84%	7.19										4	3.57%	2.61	24	8.16%	5.97
Senior Project Manager - Survey	69.88	312.0	3.42%	2.39	12	25.00%	17.47												
Project Manager I - Environmental	59.18	46.0	0.50%	0.30															
Senior Project Engineer	58.65	850.0	9.32%	5.47															
Project Engineer I	55.12	2,045.0	22.42%	12.36				24	33.33%	18.37	40	33.33%	18.37	50	44.64%	24.61	90	30.61%	16.87
Project Scientist II	47.70	145.0	1.59%	0.76															
Project Surveyor	46.59	388.0	4.25%	1.98															
Engineer II	41.53	2,042.0	22.39%	9.30				30	41.67%	17.30	48	40.00%	16.61	40	35.71%	14.83	156	53.06%	22.04
Engineer I	41.32	266.0	2.92%	1.21															
Landscape Designer I	41.16	62.0	0.68%	0.28															
Scientist II	28.69	308.0	3.38%	0.97															
Design Technician III	53.89	519.0	5.69%	3.07	8	16.67%	8.98							16	14.29%	7.70	16	5.44%	2.93
Survey Crew	46.65	124.0	1.36%	0.63	24	50.00%	23.33												
Survey Technician	40.73	4.0	0.04%	0.02	4	8.33%	3.39												
Project Coordinator	26.54	30.0	0.33%	0.09															
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		9120.0	100%	$55.50	48.0	100.00%	$53.17	72.0	100%	$55.02	120.0	100%	$55.98	112.0	100%	$51.29	294.0	100%	$50.15

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number
22-00116-09-WR

Consultant / Subconsultant Name
V3 Companies

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	1.6 USACE AND LAKE COUNTY PERMITTING, DESIGN, & MITIGATION			1.7 PRELIMINARY SITE INVESTIGATION			1.8 EXISTING UTILITY MODEL			1.9 UTILITY COORDINATION			1.10 LAND ACQUISITION SERVICES			1.11 GEOTECHNICAL ENGINEERING SERVICES		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Director	86.00										4	1.67%	1.43	24	2.01%	1.73			
Senior Project Manager - Wetland	80.57	40	12.66%	10.20															
Senior Project Manager - Trans & Mun	76.30																		
Project Manager II - NR	73.17																		
Project Manager I - Transportation	73.10							8	11.43%	8.35	84	35.00%	25.59	154	12.92%	9.44	12	54.55%	39.87
Senior Project Manager - Survey	69.88													300	25.17%	17.59			
Project Manager I - Environmental	59.18				46	19.25%	11.39												
Senior Project Engineer	58.65																		
Project Engineer I	55.12							22	31.43%	17.32	124	51.67%	28.48	72	6.04%	3.33	10	45.45%	25.06
Project Scientist II	47.70	96	30.38%	14.49	49	20.50%	9.78												
Project Surveyor	46.59													388	32.55%	15.16			
Engineer II	41.53																		
Engineer I	41.32							40	57.14%	23.61	22	9.17%	3.79	130	10.91%	4.51			
Landscape Designer I	41.16	8	2.53%	1.04															
Scientist II	28.69	172	54.43%	15.61	136	56.90%	16.32												
Design Technician III	53.89							0						24	2.01%	1.09			
Survey Crew	46.65													100	8.39%	3.91			
Survey Technician	40.73																		
Project Coordinator	26.54				8	3.35%	0.89				6	2.50%	0.66						
TOTALS		316.0	100%	$41.35	239.0	100%	$38.38	70.0	100%	$49.29	240.0	100%	$59.95	1192.0	100%	$56.76	22.0	100%	$64.93

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AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	1.12 DRAINAGE DESIGN, HYDROLOGIC & HYDRAULIC MODELING, AND PERMITTING			1.13 CORRIDOR LANDSCAPE DESIGN			1.14 VILLAGE OF FOX LAKE WATERMAIN RELOCATION, AS NECESSARY			1.15 STRUCTURAL DESIGN AND CALCULATIONS			1.16 PLANS, SPECIFICATIONS, AND ESTIMATES			1.17 PUBLIC OUTREACH		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Director	86.00							2	2.70%	2.32	16	3.92%	3.37	170	3.72%	3.20	4	7.14%	6.14
Senior Project Manager - Wetland	80.57																		
Senior Project Manager - Trans & Mun	76.30										60	14.71%	11.22	338	7.40%	5.64			
Project Manager II - NR	73.17	70	16.28%	11.91										24	0.53%	0.38			
Project Manager I - Transportation	73.10				8	10.81%	7.90	8	10.81%	7.90				313	6.85%	5.01	30	53.57%	39.16
Senior Project Manager - Survey	69.88																		
Project Manager I - Environmental	59.18																		
Senior Project Engineer	58.65	280	65.12%	38.19										570	12.48%	7.32			
Project Engineer I	55.12							28	37.84%	20.86	180	44.12%	24.32	1199	26.24%	14.47	18	32.14%	17.72
Project Scientist II	47.70																		
Project Surveyor	46.59																		
Engineer II	41.53	70	16.28%	6.76				30	40.54%	16.84	152	37.25%	15.47	1516	33.18%	13.78			
Engineer I	41.32																		
Landscape Designer I	41.16				54	72.97%	30.03												
Scientist II	28.69																		
Design Technician III	53.89	10	2.33%	1.25				6	8.11%	4.37				439	9.61%	5.18			
Survey Crew	46.65																		
Survey Technician	40.73																		
Project Coordinator	26.54				12	16.22%	4.30										4	7.14%	1.90
TOTALS		430.0	100%	$58.11	74.0	100%	$42.24	74.0	100%	$52.29	408.0	100%	$54.38	4569.0	100%	$54.98	56.0	100%	$64.92

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AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	1.18 AGENCY / COORDINATION MEETINGS			1.19 QA/QC			1.20 ADMINISTRATION / MANAGEMENT			1.21 BID SUPPORT & COORDINATION			1.22 PHASE III SUPPORT/COORDINATION					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Director	86.00	84	50.00%	43.00	60	37.50%	32.25	32	15.69%	13.49	6	10.00%	8.60	4	2.08%	1.79			
Senior Project Manager - Wetland	80.57																		
Senior Project Manager - Trans & Mun	76.30				84	52.50%	40.06												
Project Manager II - NR	73.17																		
Project Manager I - Transportation	73.10	84	50.00%	36.55	16	10.00%	7.31	100	49.02%	35.83	24	40.00%	29.24	28	14.58%	10.66			
Senior Project Manager - Survey	69.88																		
Project Manager I - Environmental	59.18																		
Senior Project Engineer	58.65																		
Project Engineer I	55.12							24	11.76%	6.49	24	40.00%	22.05	140	72.92%	40.20			
Project Scientist II	47.70																		
Project Surveyor	46.59																		
Engineer II	41.53																		
Engineer I	41.32							48	23.53%	9.72	6	10.00%	4.13	20	10.42%	4.30			
Landscape Designer I	41.16																		
Scientist II	28.69																		
Design Technician III	53.89																		
Survey Crew	46.65																		
Survey Technician	40.73																		
Project Coordinator	26.54																		
TOTALS		168.0	100%	$79.55	160.0	100%	$79.62	204.0	100%	$65.53	60.0	100%	$64.02	192.0	100%	$56.95	0.0	0%	$0.00

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

							MANHOUR BREAKDOWN								
	ITEM	QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.1	SUPPLEMENTAL TOPOGRAPHIC SURVEY		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Supplemental Topographic Survey														
	Field Data Collection (PBP; 2-man crew)	*1*	*28*			*28*		4				24			28
	Data Importing, Processing and Drafting	*1*	*16*			*16*		4			8		4		16
	PLS QC Topo	*1*	*4*			*4*		4							4
	TOTAL SUPPLEMENTAL TOPOGRAPHIC SURVEY		**48**	**0**	**0**	**48**	**0**	**12**	**0**	**0**	**8**	**24**	**4**	**0**	**48**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.2	TRAFFIC ANALYSIS		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Traffic Analysis														
	Process raw traffic count data collected at IL Route 59 & Devlin Rd, Rollins Rd and Devlin Rd, & Rollins Rd and Washington Ave	*1*	*8*			*8*	0	2	2	4					8
	Existing and Future HCS Analysis at 3 intersections	*1*	*40*			*40*	2	8	14	16					40
	Traffic Signal Warrant at Rollins Road and Devlin Road	*1*	*24*			*24*	0	6	8	10					24
	TOTAL TRAFFIC ANALYSIS		**72**	**0**	**0**	**72**	**2**	**16**	**24**	**30**	**0**	**0**	**0**	**0**	**72**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.3	EVALUATION OF ROUNDABOUT VS TRAFFIC SIGNAL STUDY (IF NECESSARY)		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Roundabout Evaluation														
	Existing and Future Sidra Analysis and Queue Length Analysis	*1*	*40*			*40*	4	8	12	16					40
	Technical Memorandum summarizing findings	*1*	*80*			*80*	4	16	28	32					80
	TOTAL EVALUATION OF ROUNDABOUT VS TRAFFIC SIGNAL STUDY (IF NECESSARY)		**120**	**0**	**0**	**120**	**8**	**24**	**40**	**48**	**0**	**0**	**0**	**0**	**120**

							MANHOUR BREAKDOWN								
		# OF		HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.4	TRAFFIC SIGNAL PLANS (IF NECESSARY)	*SHTS*	*HRS/SHT*	PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Intersection Design Study (IDS)	2	*21*	42			42		2	24	12	4				42
	Traffic Signal Plans															
	Traffic Signal Plan - Rollins Rd at Devlin Rd	*4*	*10*	*4*	*24*	*10*	*38*	2	2	24	6	4				38
	Proposed Cable Plan	*1*	*16*		*10*	*6*	*16*			2	12	2				16
	Mast-Arm Mounted Street Name Sign & Schedule of Quantities	*1*	*10*		*8*	*2*	*10*				8	2				10
	Traffic Signal Details	*10*	*1*		*4*	*2*	*6*				2	4				6
	TOTAL TRAFFIC SIGNAL PLANS (IF NECESSARY)			**46**	**46**	**20**	**112**	**2**	**4**	**50**	**40**	**16**	**0**	**0**	**0**	**112**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.5	GEOMETRIC UPDATES FOR PHASE II		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Geometric Updates for Phase II														
	Value Engineer proposed retaining wall locations along north side of Rollins to eliminate/reduce wall to avoid conflict with ex watermain	*1*	*80*			*80*	2	8	24	44	2				80
	Sidewalk and path alignments to minimize right-of-way impacts, as necessary	*1*	*84*			*84*	2	4	30	44	4				84
	Guardrail Evaluations, Length of need calculations for sidewalk/path and/or cross culvert locations	*1*	*30*			*30*	2	4	24						30
	Metra Alley Entrance Alley bike route evaluation	*1*	*40*			*40*	2	4		32	2				40
	Horizontal and Vertical site distance at each side road and driveway along Rollins Road (17 side roads, 10 driveways)	*1*	*42*			*42*		2	8	24	8				42
	Autoturn verification at every side road and driveway along Rollinsn Road (17 side roads, 10 driveways)	*1*	*18*			*18*		2	4	12					18
	TOTAL GEOMETRIC UPDATES FOR PHASE II		**294**	**0**	**0**	**294**	**8**	**24**	**90**	**156**	**16**	**0**	**0**	**0**	**294**

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Scientist	Survey	Admin	TOTAL
1.6	**USACE AND LAKE COUNTY PERMITTING, DESIGN, & MITIGATION**		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Scientist	Engineer	Tech		Tech		V3 Hours
	Wetland Permitting & Mitigation														
	Field Work and Assesment	*1*	*40*			*40*		2	2			36			40
	Report / Clearance Renewals	*1*		*12*	*4*	*16*		2	6			8			16
	USACE Nationwide Permit 14 Submittal	*1*		*50*	*20*	*70*		10	30			30			70
	Lake County SMC Isolated Wetland Permit Submittal	*1*		*42*	*24*	*66*		10	24		8	24			66
	Response to Agency Wetland/Waters Permit Review Com.	*1*		*16*	*24*	*40*		4	16			20			40
	Buffer and BMP Native Planting Plan Design (IF NECESSARY)	*1*		*24*	*10*	*34*		4	6			24			34
	Native Planting 3-Year Monitoring and Management Plan (IF NECESSARY)	*1*			*24*	*24*		2	2			20			24
	Wetland Project Meetings/Coordination	*1*	*6*	*12*	*8*	*26*		6	10			10			26
	TOTAL USACE AND LAKE COUNTY PERMITTING, DESIGN, & MITIGATION		**46**	**156**	**114**	**316**	**0**	**40**	**96**	**0**	**8**	**172**	**0**	**0**	**316**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Scientist	Survey	Admin	TOTAL
1.7	**PRELIMINARY SITE INVESTIGATIONS (PSI)**		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Scientist	Engineer	Tech		Tech		V3 Hours
	SPECIAL WASTE ASSESSMENTS														
	Preliminary Site Investigations (PSI)	*1*		*225*		*225*		36	45			136		8	225
	CCDD Pre-package Coordination	*1*		*14*		*14*		10	4						14
	TOTAL PRELIMINARY SITE INVESTIGATIONS (PSI)		**0**	**239**	**0**	**239**	**0**	**46**	**49**	**0**	**0**	**136**	**0**	**8**	**239**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.8	**EXISTING UTILITY MODEL**		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Existing Utility Model														
	Incorporate SUE Level utilities and create SUDA Model, and include into Cross Sections	*1*	*40*	*16*	*2*	*58*		4	14	40					58
	Identify Utility Conflicts	*1*	*12*			*12*		4	8						12
	TOTAL EXISTING UTILITY MODEL		**52**	**16**	**2**	**70**	**0**	**8**	**22**	**40**	**0**	**0**	**0**	**0**	**70**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.9	**UTILITY COORDINATION**		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Utility Coordination														
	Prepare Letters and Submit Plans	*1*	*22*	*6*	*6*	*34*		4	8	16				6	34
	Joint Utility Field Meetings (6) - 1 V3 team member	*1*		*40*		*40*			40						40
	Monthly Coordination Meetings (Virtual)	*1*		*20*	*20*	*40*		20	20						40
	V3 will review utility relocation permit submittals and provide comments to the LCDOT (assume 2 submittals).	*1*		*48*	*46*	*94*	4	50	40						94
	Subconsultant for Subsurface Utility Engineering (SUE) Level A/B														
	Review of Data from SAM	*1*	*12*			*12*		2	8	2					12
	Coordination	*1*	*8*	*6*	*6*	*20*		8	8	4					20
	TOTAL UTILITY COORDINATION		**42**	**120**	**78**	**240**	**4**	**84**	**124**	**22**	**0**	**0**	**0**	**6**	**240**

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.10	LAND ACQUISITION SERVICES		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Land Acquisition Evaluation														
	Alternative Analysis and Exhibits - 65 parcels - 2 exhibits each	*1*		*130*	*64*	*194*	8	24	48	90	24				194
	Upto two (2) meetings with each affected property owner (65 parcels)	*1*	*65*	*65*		*130*	16	50	24	40					130
	Plat of Highways and Legal Descriptions														
	Prepare Plate of Highways (POH)	*1*		*120*		*120*							120		120
	Review & CAD calc of approximately 65 title commitments	*1*		*80*		*80*							80		80
	Set all Proposed ROW taking corners (PBP; 2-man crew)	*1*		*108*		*108*						100	8		108
	Write legal description & PLS QC	*1*		*240*		*240*		120					120		240
	PLS QC POH	*1*		*120*		*120*		120							120
	Plat of Highways and Legal Descriptions (Adj. Common Law Roadway Parcels)														
	Write legal description & PLS QC	*1*	*120*			*120*		60					60		120
	Coordination with Land Appraisals/Negotiations Sub														
	Review of Tracking of Acquisition Status and Risks	*1*		*40*		*40*		40							40
	Coordination	*1*		*40*		*40*		40							40
	TOTAL LAND ACQUISITION SERVICES		**185**	**943**	**64**	**1,192**	**24**	**454**	**72**	**130**	**24**	**100**	**388**	**0**	**1,192**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.11	GEOTECHNICAL ENGINEERING SERVICES		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Subconsultant for Geotechnical Services														
	Review of Data from TSC	*1*	*10*			*10*		4	6						10
	Coordination	*1*	*8*	*2*	*2*	*12*		8	4						12
	TOTAL GEOTECHNICAL ENGINEERING SERVICES		**18**	**2**	**2**	**22**	**0**	**12**	**10**	**0**	**0**	**0**	**0**	**0**	**22**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.12	DRAINAGE DESIGN, HYDROLOGIC & HYDRAULIC MODELING, AND PERMITTING		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Stormwater Management Design														
	Storm sewer Inlet Spacing, Capacity & HGL Calculations	*1*	*40*	*24*	*12*	*76*		6	60	10					76
	Ditch Design and Capacity Calculations	*1*	*32*	*16*	*8*	*56*		4	40	12					56
	Lake County Watershed Development Permit Submittal Package														
	Lake County Watershed Development Permit Submittal & Application	*1*	*16*	*16*	*16*	*48*		12	36						48
	Floodplain/Floodway Analysis														
	Floodplain fill and Compensatory Storage Calculations & Exhibits	*1*	*24*	*16*	*8*	*48*		4	30	6	8				48
	Depressional Storage Analysis														
	Depressional Storage Calculations & Exhibits	*1*	*40*	*28*	*18*	*86*		12	54	18	2				86
	Water Quality Design														
	Water Quality Design & Details	*1*	*16*	*8*	*8*	*32*		4	16	12					32
	Wetland Hydrology Analysis														
	80%-150% Wetland Hydrologic Analysis & Exhibits	*1*	*20*	*4*	*4*	*28*		4	20	4					28
	Agency Coordination and Meetings														
	Agency Coordination & Meetings	*1*	*8*	*12*	*16*	*36*		24	8	4					36
	NPDES Permit Documents														
	Prepare SWPPP documents & Information Necessary for NPDES permit submittal	*1*	*4*	*4*	*12*	*20*			16	4					20
	TOTAL DRAINAGE DESIGN, HYDROLOGIC & HYDRAULIC MODELING, AND PERMITTING		**200**	**128**	**102**	**430**	**0**	**70**	**280**	**70**	**10**	**0**	**0**	**0**	**430**

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Landscape	CAD	Survey	Survey	Admin	TOTAL
1.13	CORRIDOR LANDSCAPE DESIGN		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Designer	Tech	Field	Tech		V3 Hours
	Landscape Design														
	Existing Conditions Review	*1*		*8*		*8*				8					8
	LCDOT & Fox Lake Coordination	*1*		*4*		*4*		4							4
	Design and Review	*1*	*8*	*12*	*6*	*26*		4		22					26
	Revisions to Perspective Renderings and Video Models	*1*		*24*	*12*	*36*				24				12	36
	TOTAL CORRIDOR LANDSCAPE DESIGN		**8**	**48**	**18**	**74**	**0**	**8**	**0**	**54**	**0**	**0**	**0**	**12**	**74**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.14	VILLAGE OF FOX LAKE WATERMAIN RELOCATION, AS NECESSARY		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Existing Facility Research														
	Watermain Profile Evaluation	*1*	*8*			*8*				8					8
	Watermain Permitting														
	IEPA & LCDOT Permit	*1*		*8*	*4*	*20*		4	16						20
	Plans, Specifications and Estimates - 20 Scale														
	Proposed Utility Plan & Profiles	*1*	*4*	*18*	*8*	*30*	2	4	8	14	2				30
	Utility Details	*1*		*8*	*4*	*8*				4	4				8
	Specifications/Cost Estimate QA/QC	*1*		*6*	*4*	*8*			4	4					8
	TOTAL VILLAGE OF FOX LAKE WATERMAIN RELOCATION, AS NECESSARY		**12**	**40**	**20**	**74**	**2**	**8**	**28**	**30**	**6**	**0**	**0**	**0**	**74**

							MANHOUR BREAKDOWN								
		QTY	HOURS PER QTY PER PHASE			SUBTOTAL	Proj	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.15	STRUCTURAL DESIGN AND CALCULATIONS		PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Retaining Wall Design														
	Review and Coordination with Geotechnical Engineer	*1*	*10*		*2*	*12*	2	4	6						12
	Retaining Wall Structures - Greater than 4' tall	*1*	*100*	*80*	*40*	*220*	8	40	100	72					220
	Retaining Wall Structures - Less than 4' tall	*1*	*60*	*40*	*12*	*112*	4	12	56	40					112
	Headwall Design														
	Headwall Structure Calculations, if necessary	*1*	*24*	*36*	*4*	*64*	2	4	18	40					64
	TOTAL STRUCTURAL DESIGN AND CALCULATIONS		**194**	**156**	**58**	**408**	**16**	**60**	**180**	**152**	**0**	**0**	**0**	**0**	**408**

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

		# OF		HOURS PER PHASE			SUBTOTAL	MANHOUR BREAKDOWN								TOTAL
1.16	PLANS, SPECIFICATIONS, AND ESTIMATES	SHTS	HRS/SHT	PRELIM	PRE-FINAL	FINAL	HOURS/TASK	Proj Director	Project Manager	Project Engineer	Design Engineer	CAD Tech	Survey Field	Survey Tech	Admin	V3 Hours
	Cover Sheet - NTS	1	*8*	4	2	2	8	1	1	2	0	4				8
	Index of Sheets, Highway Stds, Commitments - NTS	1	*12*	5	4	3	12	1	2	4	4	1				12
	General Notes - NTS	2	*12*	11	7	6	24	2	4	8	8	2				24
	Summary of Quantities - NTS - 350 pay items	13	*5*	27	18	15	60	8	8	8	24	12				60
	Schedule of Quantities - NTS	25	*20*	223	149	124	496	25	56	145	195	75				496
	Earthwork Schedule - NTS	8	*8*	29	19	16	64	8	8	16	24	8				64
	Existing & Proposed Typical Sections - NTS	8	*6*	22	14	12	48	0	8	16	16	8				48
	Alignment, Ties, and Benchmarks - 50-scale single	6	*4*	11	7	6	24	0	6	6	12	0				24
	Removal Plans - 20-scale single	31	*4*	56	37	31	124	0	31	31	62	0				124
	Roadway Plan and Profile - 20-scale															
	R P&P - Rollins Road	*17*	*12*	*92*	*61*	*51*	*204*	17	34	68	68	17				204
	R P&P - Metra Alley	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Holly Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Rose Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Ridgeland Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Woodland Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Hillcrest Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Highview Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Maple Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Hickory Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Elm Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Rainier Way	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Devlin Road	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Adams Avenue	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	R P&P - Jefferson Street	*1*	*8*	*4*	*2*	*2*	*8*		1	2	4	1				8
	Intersection Grading - 1 sheet per intersection															
	IG - Metra Alley	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Holly Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Hillside Drive	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Sayton Road	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Rose Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Ridgeland Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Woodland Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Hillcrest Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Highview Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Maple Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Hickory Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Elm Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Rainier Way	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Devlin Road	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Adams Avenue	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	IG - Jefferson Street	*1*	*10*	*4*	*4*	*2*	*10*		2	3	3	2				10
	Driveway and ADA Ramp Details															
	ADA - Metra Alley	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
	ADA - Holly Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
	ADA - Hillside Drive	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
	ADA - Sayton Road	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
	ADA - Rose Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
	ADA - Ridgeland Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

ADA - Woodland Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Hillcrest Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Highview Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Maple Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Hickory Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Elm Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Rainier Way	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Devlin Road & Rollins Road	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Devlin Road & Garfield Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Adams Avenue	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
ADA - Jefferson Street	*1*	*9*	*4*	*3*	*2*	*9*		1	2	5	1				9
# of Residential and Commercial Driveways on Rollins Road (10)	*5*	*9*	*20*	*14*	*11*	*45*		5	16	20	4				45
# of Residential and Commercial Driveways on Side Roads (25)	*13*	*8*	*48*	*31*	*25*	*104*		16	40	40	8				104
Maintenance of Traffic Plan - 50-scale double plan															
MOT COVER SHEET	*1*	*6*	*2*	*2*	*2*	*6*		1	2	2	1				6
MOT GN	*2*	*24*	*22*	*14*	*12*	*48*	2	8	14	20	4				48
MOT Typs	*4*	*20*	*36*	*24*	*20*	*80*	4	12	24	32	8				80
MOT Plans - Pre-Stage & 3 Stages Rollins Road	*28*	*7*	*88*	*59*	*49*	*196*		28	56	84	28				196
Soil Erosion and Sediment Control Plan - 50-scale double plan															
EC Notes	*1*	*24*	*11*	*7*	*6*	*24*	1	4	7	10	2				24
EC Plans - Ex. Cond & 3 Stages (Rollins Road)	*28*	*6*	*76*	*50*	*42*	*168*		28	56	56	28				168
EC Details	*4*	*7*	*13*	*8*	*7*	*28*		4	8	12	4				28
Drainage Plan and Profile - 20-scale															
Proposed Drainage Plan & Profiles	*31*	*18*	*350*	*108*	*100*	*558*		16	500	26	16				558
Drainage Schedules	*2*	*20*	*16*	*12*	*12*	*40*			34	6					40
Drainage Details	*1*	*12*	*6*	*4*	*2*	*12*		2	10						12
Drainage Grading Plans															
Depressional Storage and Floodplain Compensatory Storage Grading Plans	*3*	*12*	*16*	*16*	*4*	*36*		6	24	6					36
Traffic Signal Plans, IF NECESSARY (See Task 1.4 for Hours)	16														
Temporary Signal Plans															
Temporary Signal Plans (20-scale)	*12*	*5*	*27*	*18*	*15*	*60*		12	24	24					60
Temporary Interconnect Plans	*5*	*2*	*4*	*3*	*3*	*10*			5	5					10
Temporary Cable Plan	*1*	*2*	*0*	*1*	*1*	*2*			1	1					2
Interconnect Plans- 20-scale double															
Interconnect Plans	*5*	*4*	*9*	*6*	*5*	*20*		4	6	10					20
Interconnect Details	*2*	*4*	*4*	*2*	*2*	*8*		2	2	4					8
Signing and PM Plan - 20-scale single															
Sign Schedule	*1*	*24*	*11*	*7*	*6*	*24*	1	4	7	10	2				24
Proposed Signing & Pavement Marking Plan	*17*	*4*	*31*	*20*	*17*	*68*		17	17	34					68
Landscape Plans - 20-scale double															
Proposed Landscape Plan	*9*	*4*	*16*	*11*	*9*	*36*		9	9	18					36
Proposed Planting Schedule	*1*	*12*	*6*	*3*	*3*	*12*	1	2	4	4	1				12
Landscape Legend & Details	*1*	*4*	*2*	*1*	*1*	*4*		1	1	2	0				4
Structural Plans															
Retaining Wall Plans	*10*	*4*	*18*	*12*	*10*	*40*		10	10	20					40
Headwall Plans	*2*	*4*	*4*	*2*	*2*	*8*		2	2	4					8
Soil Borings (32 borings; 2 per sheet)	*16*	*1*	*7*	*5*	*4*	*16*					16				16
Cross Sections - 5 scale; 3 per sheet															
Rollins Road cross sections 8800' @ 50' + 10 driveways	*62*	*13*	*362*	*242*	*202*	*806*	62	124	248	310	62				806

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

All Side Road cross sections 2500' @ 50'+ 25 driveways	*25*	*13*	*147*	*98*	*80*	*325*	25	50	100	125	25				325
LCDOT Standard Details (2 per sheet)	10	*1.6*	7	5	4	16					16				16
IDOT Standard Details (1 per sheet)	75	*0.3*	20	2	2	24					24				24
Special Provisions	1	*200*	91	59	50	200	8	69	100	23					200
Estimate of Cost	1	*16*	8	6	2	16	2	4	8	2					16
Estimate of Time	1	*40*	6	24	10	40	2	14	20	4					40
TOTAL PLANS, SPECIFICATIONS, AND ESTIMATES	552	*8*	**2,047**	**1,248**	**1,018**	**4,569**	**170**	**675**	**1,769**	**1,516**	**439**	**0**	**0**	**0**	**4,569**
	EST. # OF SHEETS	*HRS/SHT*													

							MANHOUR BREAKDOWN								
		QTY	HOURS PER PHASE			TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.17	**PUBLIC OUTREACH**		PRELIM	PRE-FINAL	FINAL	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Public Outreach Updates														
	Maintenance of the Property Owner Mailing List	*1*	*8*	*4*	*4*	*16*		4	8					4	16
	Semi-annual project updates for distribution (updates to website)	*1*	*0*	*6*	*6*	*12*		2	10						12
	Updated video rendering to correspond with Phase II plans	*1*	*0*	*22*	*6*	*28*	4	24							28
	TOTAL PUBLIC OUTREACH		**8**	**32**	**16**	**56**	**4**	**30**	**18**	**0**	**0**	**0**	**0**	**4**	**56**

					MANHOUR BREAKDOWN								
		# OF		TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.18	**AGENCY COORDINATION & MEETINGS**	*Mtgs*	*Hrs*	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	In-Person Meetings (7 total, w/2 V3 reps) - include travel time, preparation for mtg, and meeting minutes	*7*	*12*	*84*	42	42							84
	Virtual Meetings (12 total, w/2 V3 reps) - include preparation for mtg and meeting minutes.	*12*	*6*	*72*	36	36							72
	IDOT Permit Coordination - include preparation for mtg and meeting minutes.	*1*	*12*	*12*	6	6							12
	TOTAL AGENCY COORDINATION & MEETINGS			**168**	**84**	**84**	**0**	**0**	**0**	**0**	**0**	**0**	**168**

						MANHOUR BREAKDOWN								
		# OF		HOURS PER PHASE		TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.19	**QA/QC**	*Tsk*	*Hrs*	PRELIM	PRE-FINAL	FINAL	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Plan/Design documents QA/QC	*1*		*24*	*16*	*8*	*48*	30	10	8						48
	Specifications/Cost Estimate QA/QC	*1*		*24*	*16*	*8*	*48*	30	10	8						48
	Constructability Review QA/QC	*1*		*20*	*24*	*20*	*64*		64							64
	TOTAL QA/QC			**68**	**56**	**36**	**160**	**60**	**84**	**16**	**0**	**0**	**0**	**0**	**0**	**160**

						MANHOUR BREAKDOWN								
		# OF		HOURS PER PHASE		TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.20	**ADMINISTRATION / MANAGEMENT**	*Tsk*	*Hrs*	PRELIM	PRE-FINAL	FINAL	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Project Work Plan & Design Schedule	*1*		*36*			*36*	8	28							36
	Internal Team Project Meetings (monthly)	*24*		*40*	*40*	*40*	*120*	24	24	24	48					120
	Contract Administration	*24*		*8*	*8*	*8*	*24*		24							24
	Invoicing and Billing Reviews	*24*		*8*	*8*	*8*	*24*		24							24
	TOTAL ADMINISTRATION / MANAGEMENT			**92**	**56**	**56**	**204**	**32**	**100**	**24**	**48**	**0**	**0**	**0**	**0**	**204**

						MANHOUR BREAKDOWN								
		# OF		HOURS PER PHASE		TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.21	**BID SUPPORT**	*Tsk*	*Hrs*	PRELIM	PRE-FINAL	FINAL	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Respond to RFI's / Addendums	*1*				*52*	*52*	2	18	26	6					52
	Bid Tabulation / Award Letter/Recommendation	*1*				*8*	*8*	4	4							8
	TOTAL BID SUPPORT			**0**	**0**	**60**	**60**	**6**	**22**	**26**	**6**	**0**	**0**	**0**	**0**	**60**

ATTACHMENT C
V3 MANHOUR SUMMARY FORM

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

								MANHOUR BREAKDOWN								
		# OF		HOURS PER PHASE			TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
1.22	PHASE III SUPPORT/COORDINATION	*Tsk*	*Hrs*	PRELIM	PRE-FINAL	FINAL	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
	Review Shop Drawings	*1*				*24*	*24*			24						24
	Any necessary field meetings	*1*				*16*	*16*		4	12						16
	RFI Response Assistance	*1*				*120*	*120*		20	80	20					120
	Supplemental CCDD/Special Waste Consultation	*1*				*32*	*32*	4	4	24						32
	TOTAL PHASE III SUPPORT/COORDINATION			**0**	**0**	**192**	**192**	**4**	**28**	**140**	**20**	**0**	**0**	**0**	**0**	**192**

	HOURS PER PHASE			TOTAL	Project	Project	Project	Design	CAD	Survey	Survey	Admin	TOTAL
	PRELIM	PRE-FINAL	FINAL	HOURS	Director	Manager	Engineer	Engineer	Tech	Field	Tech		V3 Hours
TOTAL HOURS	3,552	3,286	1,856	9,120	426	1,893	3,058	2,362	527	432	392	30	**9,120**

EXHIBIT C

V3 DIRECT COSTS SUMMARY

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

	TASK	QTY	UNIT COST / UNIT	Travel: Miles	Travel: Mileage Cost	Mailers, Exhibits, Copies: Postage	Pages (Sheets) per submittal	8.5" X 11" (Black & White)	8.5" X 11" (Color)	11" X 17" (Black & White)	11" X 17" (Color)	22" X 34" (Color Boards)	Other Expenses	TOTAL DIRECT COST	SERVICES BY OTHERS	TOTAL DIRECT EXPENSES
			UNIT COST		$ 0.58	$ 0.50		$ 0.06	$ 0.60	$ 0.20	$ 1.00	$ 70.00				
			UNIT		Per Mile			Each	Each	Each	Each	6 S.F.				
1.1	**SUPPLEMENTAL TOPOGRAPHIC SURVEY**				Sub-Total Cost									**$ 121.90**	**$ -**	**$ 121.90**
	Survey Crew - days at 104 miles	2	VISIT(S)	106	$ 121.90									$ 121.90		$ 121.90
1.2	**TRAFFIC ANALYSIS**				Sub-Total Cost									**$ 1,870.00**	**$ -**	**$ 1,870.00**
	Quality Counts Traffic Data Collection	1	L. SUM										$ 1,870.00	$ 1,870.00		$ 1,870.00
1.3	**EVALUATION OF ROUNDABOUT VS TRAFFIC SIGNAL STUDY (IF NECESSARY)**				Sub-Total Cost									**$ -**	**$ -**	**$ -**
														$ -		$ -
1.4	**TRAFFIC SIGNAL PLANS (IF NECESSARY)**				Sub-Total Cost									**$ -**	**$ -**	**$ -**
														$ -		$ -
1.5	**GEOMETRIC UPDATES FOR PHASE II**				Sub-Total Cost									**$ -**	**$ -**	**$ -**
														$ -		$ -
1.6	**USACE AND LAKE COUNTY PERMITTING, DESIGN, & MITIGATION**				Sub-Total Cost									**$ 60.95**	**$ -**	**$ 60.95**
	Wetland Delineation Field Work (2 days; initial & update)	1	VISIT(S)	106	$ 60.95									$ 60.95		$ 60.95
1.7	**PRELIMINARY SITE INVESTIGATIONS (PSI)**				Sub-Total Cost									**$ 58,718.75**	**$ -**	**$ 58,718.75**
	Drilling Vendor	1	L. SUM										$ 32,820.00	$ 32,820.00		$ 32,820.00
	Lab Analysis	1	L. SUM										$ 23,594.00	$ 23,594.00		$ 23,594.00
	Field Sampling Supplies	1	L. SUM										$ 2,000.00	$ 2,000.00		$ 2,000.00
	Sampling - days at 106 miles	5	VISIT(S)	106	$ 304.75									$ 304.75		$ 304.75
1.8	**EXISTING UTILITY MODEL**				Sub-Total Cost										**$ 80,000.00**	**$ 80,000.00**
	Subconsultant for SUE Level A/B services	1	L. SUM												$ 80,000.00	$ 80,000.00
1.9	**UTILITY COORDINATION**				Sub-Total Cost									**$ 365.70**	**$ -**	**$ 365.70**
	Field meetings	6	VISIT(S)	106	$ 365.70									$ 365.70		$ 365.70
1.10	**LAND ACQUISITION SERVICES**				Sub-Total Cost									**$ 20,425.00**	**$ 554,000.00**	**$ 574,425.00**
	Title Commitments ($750 per PIN)	15	PARCELS										$ 11,250.00	$ 11,250.00		$ 11,250.00
	Title Commitments Updates ($95 per PIN)	65	PARCELS										$ 6,175.00	$ 6,175.00		$ 6,175.00
	Subconsultant for Land Appraisals/Negotiations Services	1	L. SUM											$ -	$ 554,000.00	$ 554,000.00
	'Set all Proposed ROW taking corners 6' decaled fiberglass WP	100	ROW CORNERS										$ 3,000.00	$ 3,000.00		$ 3,000.00
1.11	**GEOTECHNICAL ENGINEERING SERVICES**				Sub-Total Cost									**$ -**	**$ 37,700.00**	**$ 37,700.00**
	Subconsultant for Geotechnical Engineering Services	1	L. SUM												$ 37,700.00	$ 37,700.00

EXHIBIT C

V3 DIRECT COSTS SUMMARY

PROJECT: Rollins Road: Grand Avenue to Washington Avenue, Phase II Engineering Services

				Travel		Mailers, Exhibits, Copies											
				Miles	Mileage Cost	Postage	Pages (Sheets) per submittal	8.5" X 11" (Black & White)	8.5" X 11" (Color)	11" X 17" (Black & White)	11" X 17" (Color)	22" X 34" (Color Boards)	Other Expenses	TOTAL DIRECT COST	SERVICES BY OTHERS	TOTAL DIRECT EXPENSES
	TASK		UNIT COST		$ 0.58	$ 0.50		$ 0.06	$ 0.60	$ 0.20	$ 1.00	$ 70.00				
		QTY	UNIT		Per Mile			Each	Each	Each	Each	6 S.F.				
1.12	**DRAINAGE DESIGN, HYDROLOGIC & HYDRAULIC MODELING, AND PERMITTING**				Sub-Total Cost				Sub-Total Cost		Sub-Total Cost			**$ 1,168.00**	**$ -**	**$ 1,168.00**
	Report & Exhibits (2 Submittals)	8	HARD COPIES				300	$ 48.00	$ 720.00		$ 400.00			$ 1,168.00		$ 1,168.00
1.13	**CORRIDOR LANDSCAPE DESIGN**				Sub-Total Cost									**$ -**	**$ -**	**$ -**
1.14	**VILLAGE OF FOX LAKE WATERMAIN RELOCATION, AS NECESSARY**				Sub-Total Cost									**$ -**	**$ -**	**$ -**
1.15	**STRUCTURAL DESIGN AND CALCULATIONS**				Sub-Total Cost									**$ -**	**$ -**	**$ -**
														$ -		$ -
1.16	**PLANS, SPECIFICATIONS, AND ESTIMATES**				Sub-Total Cost					Sub-Total Cost				**$ 2,280.00**	**$ -**	**$ 2,280.00**
	Preliminary Submittal	1	HARD COPIES				570			$ 114.00				$ 114.00		$ 114.00
	Pre-Final Submittal	1	HARD COPIES				570			$ 114.00				$ 114.00		$ 114.00
	Final Submittal	3	HARD COPIES				570			$ 1,026.00				$ 1,026.00		$ 1,026.00
	Bid Set Submittal	3	HARD COPIES				570			$ 1,026.00				$ 1,026.00		$ 1,026.00
1.17	**PUBLIC OUTREACH**				Sub-Total Cost									**$ 1,920.00**	**$ -**	**$ 1,920.00**
	Letters & Exhibits to Stakeholders (2 notices @ 300 Mailers)	600	MAILERS				2		$ 720.00		$ 1,200.00			$ 1,920.00		$ 1,920.00
1.18	**AGENCY COORDINATION & MEETINGS**													**$ 426.65**	**$ -**	**$ 426.65**
	Attendance at Meetings	7	VISIT(S)	106	$ 426.65									$ 426.65		$ 426.65
1.19	**QA/QC**													**$ 342.00**	**$ -**	**$ 342.00**
	Preliminary Submittal	1	HARD COPIES				570			$ 114.00				$ 114.00		$ 114.00
	Pre-Final Submittal	1	HARD COPIES				570			$ 114.00				$ 114.00		$ 114.00
	Final Submittal	1	HARD COPIES				570			$ 114.00				$ 114.00		$ 114.00
1.20	**ADMINISTRATION / MANAGEMENT**													**$ -**	**$ -**	**$ -**
																$ -
1.21	**BID SUPPORT**													**$ -**	**$ -**	**$ -**
1.22	**PHASE III SUPPORT/COORDINATION**													**$ 121.90**	**$ -**	**$ 121.90**
	Any necessary field meetings	2	VISIT(S)	106	$ 121.90									$ 121.90		$ 121.90

	TRAVEL COSTS	MAILERS, EXHIBITS, AND COPIES COST	OTHER EXPENSES	TOTAL DIRECT COST	SERVICES BY OTHERS	TOTAL DIRECT EXPENSES
TOTAL	$ 1,401.85	$ 5,710.00	$ 80,709.00	**$ 87,820.85**	**$ 671,700.00**	**$ 759,520.85**

All fees related to permitting are not included under Direct Costs. The fees shall be paid for by the Lake County Division of Transportation

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	V3 Companies	Lake	22-00116-09-WR

EXHIBIT D
Sub-Consultants Scope and Fees

SEE ATTACHED.

TSC - Geotech
SAM - Subsurface Utility Engineering
Santacruz - Land Acquisition & Negotiations

COST ESTIMATE
Phase 2 - Rollins Road Improvements
New Retaining Walls
Grand Ave. to Washington Ave.
Fox Lake, IL

	ITEM	UNIT	QTY	RATE	COST
STAKING AND UTILITY CLEARANCE					
1.1	Layout Person to Mark Boring Locations, Obtain Surface Elevations and Arrange for Clearance of Underground Utilities	Hour	8.0	120.00	$ 960.00
1.2	Utility Locator to Mark Private Underground Lines incl. Inside Existing Buildings	Cost + 10%	0	Est. 800.00	$ 0.00
DRILLING AND SAMPLING					
2.1	Drill Mounted on Truck or ATV with Two-Person Crew (Portal-to-Portal)	Day	4	3,850.00	$ 15,400.00
TRAFFIC CONTROL					
3.1	2-Man Flagging Crew, Regular Time (Portal to Portal), minimum 6.0 Hours	Hour	32	355.00	$ 11,360.00
3.2	2-Man Flagging Crew, Overtime	Hour	4	445.00	$ 1,780.00
3.3	TSC Pickup, Arrowboard and/or cones	Day	0	130.00	$ 0.00
LABORATORY TESTING					
4.1	Examine Samples to Describe by Textural System and Classify Using the Unified Soil Classification System	Each	136	5.00	$ 680.00
4.2	Water Content Determination (Includes Pocket Penetrometer Reading on Cohesive Samples)	Each	130	9.00	$ 1,170.00
4.3	Unconfined Compressive Strength of Cohesive Soils or Torvane Shear Strength Measurement	Each	10	18.00	$ 180.00
4.4	Dry Unit Weight Determination	Each	20	9.00	$ 180.00
4.5	Organic Content	Each	2	130.00	$ 260.00
ENGINEERING SERVICES					
5.1	Prepare Geotechnical Report with Typed Boring Logs and Location Plan	Lump Sum	1	5,100.00	$ 5,100.00
5.2	Geotechnical Engineer to Attend Pre-Boring Meeting at Lake County DOT Office	Hour	4	160.00	$ 640.00
5.3	Senior Geotechnical Engineer to Consult or Attend Project Meetings	Hour	0.0	180.00	$ 0.00
				ESTIMATED TOTAL	$ 37,710.00
				RECOMMENDED BUDGET	**$ 37,700.00**

EXHIBIT D

TESTING SERVICE CORPORATION

Corporate Office

360 South Main Place, Carol Stream, IL 60188-2404
Phone 630.462.2600

November 21, 2024

Ms. Elora I. Hsu, P.E.
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517

RE: P.N. 74,262B
Geotechnical Exploration
Phase 2 - Rollins Road Improvements
New Retaining Walls
Grand Ave. to Washington Ave.
Fox Lake, IL

Dear Ms. Hsu:

Testing Service Corporation (TSC) is pleased to submit this proposal to provide Geotechnical Engineering Services for the above-captioned project. It is in response to your latest email dated November 14, 2024. The objectives of the Geotechnical Exploration are to explore soil and groundwater conditions and provide recommendations for retaining wall in connection with Phase 2 of the Rollins Road Improvements. It is understood the retaining walls range from 25 to 685 feet long, with exposed wall heights of 1 to 5.5 feet.

Boring Program:

We are proposing to drill thirty-one (31) soil borings as part of our Geotechnical Exploration, as indicated on the boring location plans attached. The retaining wall borings are to be extended 10 to 15 feet below existing grade. Total drilling footage on this basis is estimated to be up to 340 lineal feet.

For the purposes of this proposal, we have assumed that the boring locations will be accessible to a conventional truck or ATV-mounted drill. In this regard, they should not be located in standing water, within wooded areas or on steeply sloping ground. No provisions have been made for tree/brush clearing or other obstruction removal should borehole access be impeded. Landscape restoration (if required) is also not included in the project budget.

TSC will utilize personnel who are trained in layout procedures to stake the borings in the field. Ground surface elevations for each borehole will be determined by GPS using a Trimble R12 GNSS receiver. Utility clearance for the borings will be obtained by contacting JULIE (Joint Utility Locating Information for Excavators). Private underground utility lines will have to be marked by the property owner or their agents; a private locator can be hired for an added cost if necessary.

Soil samples will be obtained by standard split-spoon (ASTM D 1586) methods at each structure and/or subgrade boring location in accordance with IDOT procedures. Special circumstances (trees, slopes, power lines, etc.) may dictate the use of a small drill rig where soil samples will be obtained by geo-probe methods. Subgrade borings will be sampled at 2½-foot intervals for at least the first 15 feet (and greater if fill or unsuitable soil types extend below that depth as well as in cut or detention areas), to otherwise not exceed 5-foot intervals. A representative portion of the split-spoon samples will be placed in a glass jar with a screw-type lid for transportation to our laboratory. Groundwater observations

will also be made during and following completion of drilling operations, with any boreholes in pavement areas to be backfilled immediately and patched at the surface.

Assumptions for Permits:

Rollins Road is under the Lake County jurisdiction and will not require a permit. However, a preconstruction meeting may be required before the soil borings are staked and drilled.

Traffic Control:

The borings in some areas along Rollins Road may require lane closures. Please note that this proposal assumes that TSC will be able to perform all borings and cores during weekdays (Monday through Friday) beginning no later than 9:00 AM and ending no sooner than 3:00 PM. It is possible that traffic control will not be needed if there are borings located in grass areas off the existing roadways. However, cones and signs may be required.

Laboratory Testing:

Samples retained from the borings will also be examined by laboratory personnel to verify field descriptions and to estimate soil classifications in accordance with the Unified and AASHTO Soil Classification Systems. Laboratory testing will include moisture content determinations, as well as unconfined compressive strength (Qu) on cohesive soils using a proving ring tester, approved by IDOT. Estimate of unconfined compressive strength using a calibrated pocket penetrometer (Qp) will be obtained on cohesive samples when unconfined compressive strength (Qu) is not possible. Representative subgrade samples will be tested for Atterberg limits and grain size analysis in accordance with IDOT procedures. Other tests deemed to be necessary by TSC's Project Engineer may also be recommended for your approval.

Engineering Report:

A geotechnical engineering report will be prepared upon completion of field and laboratory testing, to include typed boring logs and a location plan. The report will provide a summary of soil and groundwater conditions as well as address their impact on the proposed site development. It will also provide recommendations to guide design and specification preparation pertaining to geotechnical issues relevant to the structure or purpose described in this proposal. These may include the following as applicable:

- General earthwork and construction considerations.
- Remedial work and/or treatment of unstable or unsuitable soil types.
- Fill placement and compaction requirements.
- Foundation type, capacity and depth/elevation.
- Anticipation and management of groundwater.

Fees and Scope:

In accordance with the Cost Estimate attached, TSC is proposing a not-to-exceed budget amount of **Thirty-Seven Thousand Seven Hundred Dollars ($ 37,700.00)** to provide the Geotechnical Exploration outlined above. Our proposal is based on the understanding that the boring locations are accessible to conventional drilling equipment and the work can be performed during standard business hours. Our fee is further subject to this proposal being accepted by you on or before August 31, 2025.

Should the study reveal unexpected subsurface conditions requiring a change in the scope of work, you will be contacted before we proceed with any additional work. Our invoice would then be based on our standard unit rates given in the attached Cost Estimate or as otherwise agreed upon. While our quoted fee does not include earthwork, excavation, and/or footing observations during the construction phase, the project budget should include a provision for these services. Plan review, preconstruction meetings and/or other consulting and professional services that are provided subsequent to the delivery of TSC's report would be covered by separate invoice.

TSC's geotechnical investigation does not include services required to evaluate the likelihood of the site being contaminated by hazardous materials or other pollutants. Analytical testing which would be required in connection with IEPA Form LPC-663, Uncontaminated Soil Certification is also not included. Should environmental and/or analytical testing be desired, please contact the undersigned for additional details and/or associated costs.

Closure:

The geotechnical engineering services being performed are subject to TSC's attached General Conditions. TSC charges include all state and federal taxes that may be required. However, unless stated otherwise they do not include license, permit or bond fees that local governments may impose, if any to potentially be added to our invoice. The invoice will be sent to the following unless written instructions to the contrary are received:

Ms. Elora I. Hsu, P.E.
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
Tel: (630) 724-9200
Email: ehsu@v3co.com

If this proposal meets with your approval, please indicate your acceptance by signing one copy and returning it to our Carol Stream, Illinois office. It would be helpful if you could also complete the attached Project Data form indicating who is to receive copies of TSC's report and other related information.

Your consideration of our proposal is appreciated. We look forward to being of service to you on this project.

Respectfully submitted,

TESTING SERVICE CORPORATION

Timothy R. Peceniak, P.E.
Geotechnical Engineer

Enc: Cost Estimate
Boring Location Plan
General Conditions
Project Data Sheet

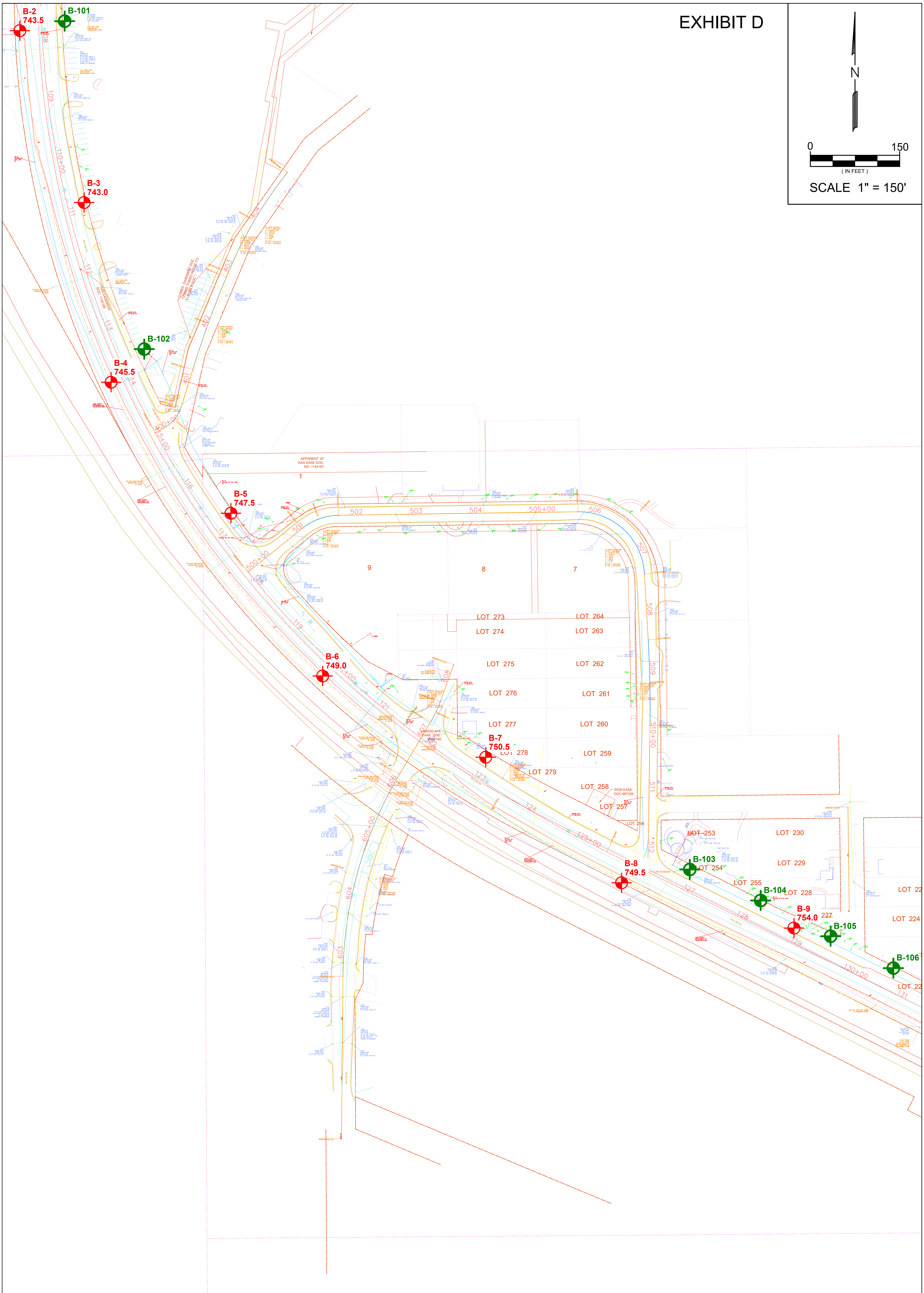
Approved and accepted for _____ by:

_____
(NAME)

_____
(TITLE)

_____
(DATE)

EXHIBIT D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NO. 1144187
GAS EASEMENT
DOC. 1144188
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EASE. DOC.
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(IN FEET)
SCALE 1" = 150'

NOTE: GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

LEGEND

DRILLED BORING LOCATION

PROPOSED BORING LOCATION

BORING LOCATION PLAN
ROLLINS ROAD RETAINING WALLS
GRAND AVENUE TO WASHINGTON AVENUE
FOX LAKE, ILLINOIS

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

DRAWN BY:	FFE
CHECKED BY:	TRP
JOB NO. :	
DATE:	11-21-24

PAGE NO.
1 OF 3

EXHIBIT D

N

0 150

(IN FEET)

SCALE 1" = 150'

B-107 B-108 B-109 B-110 B-111 B-112 B-113 B-114 B-115 B-116 B-117 B-118 B-119 B-120

B-10 754.0 B-11 756.0 B-12 755.5 B-13 757.0 B-14 754.0 B-15 752.0 B-16 747.5 B-17 744.5 B-18 742.

LOT 226 LOT 193 LOT 188 LOT 150 LOT 149 LOT 142 LOT 143 LOT 144 LOT 144 1/2 LOT 145 LOT 100 1/2 LOT 100 LOT 99 LOT 98 LOT 90 LOT 91 LOT 92 LOT 93 LOT 94 LOT 95 LOT 45 LOT 44 LOT 43 LOT 42 LOT 41 LOT 40 LOT 39 LOT 37 LOT 25 LOT 26 LOT 27 LOT 28 LOT 29 LOT 30 LOT 31 LOT 32 LOT 33 LOT 34 LOT 474 LOT 473 LOT 466 LOT 467 LOT 468 LOT 469 LOT 395 LOT 394 LOT 393 LOT 392 LOT 384 LOT 385 LOT 386 LOT 387 LOT 388

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(150') (50')

NOTE:

GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

LEGEND

DRILLED BORING LOCATION

PROPOSED BORING LOCATION

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ROLLINS ROAD RETAINING WALLS
GRAND AVENUE TO WASHINGTON AVENUE
FOX LAKE, ILLINOIS

TSC

TESTING SERVICE CORPORATION
457 EAST GUNDERSEN DRIVE
CAROL STREAM, ILLINOIS 60188

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DATE:	11–21–24

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2 OF 3

EXHIBIT D

N

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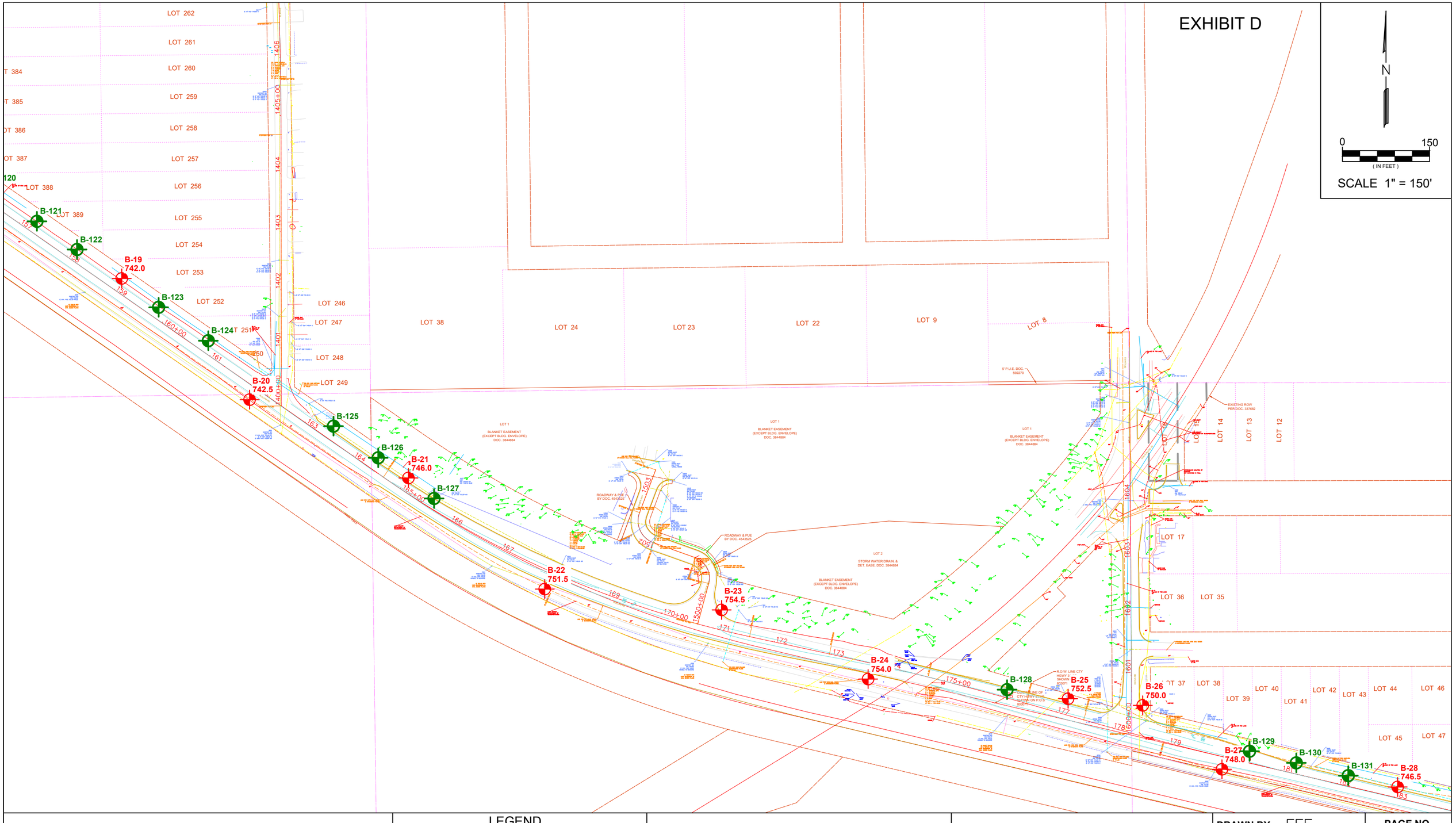
(IN FEET)

SCALE 1" = 150'



NOTE:

GROUND SURFACE ELEVATIONS AT THE BORINGS WERE ACQUIRED BY TSC USING A TRIMBLE R12 GNSS RECEIVER, BEING ROUNDED TO THE NEAREST 0.5 FOOT.

LEGEND

DRILLED BORING LOCATION

PROPOSED BORING LOCATION

BORING LOCATION PLAN
ROLLINS ROAD RETAINING WALLS
GRAND AVENUE TO WASHINGTON AVENUE
FOX LAKE, ILLINOIS

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PAGE NO.

3 OF 3

EXHIBIT D

TESTING SERVICE CORPORATION

GENERAL CONDITIONS

Geotechnical and Construction Services

1. PARTIES AND SCOPE OF WORK: If Client is ordering the services on behalf of another, Client represents and warrants that Client is the duly authorized agent of said party for the purpose of ordering and directing said services, and in such case the term "Client" shall also include the principal for whom the services are being performed. Prices quoted and charged by TSC for its services are predicated on the conditions and the allocations of risks and obligations expressed in these General Conditions. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by Client are adequate and sufficient for Client's intended purpose. Unless otherwise expressly assumed in writing, TSC's services are provided exclusively for client. TSC shall have no duty or obligation other than those duties and obligations expressly set forth in this Agreement. TSC shall have no duty to any third party. Client shall communicate these General Conditions to each and every party to whom the Client transmits any report prepared by TSC. Ordering services from TSC shall constitute acceptance of TSC's proposal and these General Conditions.

2. SCHEDULING OF SERVICES: The services set forth in this Agreement will be accomplished in a timely and workmanlike manner. If TSC is required to delay any part of its services to accommodate the requests or requirements of Client, regulatory agencies, or third parties, or due to any cause beyond its reasonable control, Client agrees to pay such additional charges, if any, as may be applicable.

3. ACCESS TO SITE: TSC shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as a result of its services or the use of its equipment; however, TSC has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires TSC to restore the site to its former condition, TSC will, upon written request, perform such additional work as is necessary to do so and Client agrees to pay to TSC the cost thereof plus TSC's normal markup for overhead and profit.

4. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that Client has advised TSC of any known or suspected hazardous materials, utility lines and underground structures at any site at which TSC is to perform services under this Agreement. Unless otherwise agreed in writing, TSC's responsibility with respect to underground utility locations is to contact the Illinois Joint Utility Locating Information for Excavators for the location of public, but not private, utilities.

5. DISCOVERY OF POLLUTANTS: TSC's services shall not include investigation for hazardous materials as defined by the Resource Conservation Recovery Act, 42 U.S.C.§ 6901, et, seq., as amended ("RCRA") or by any state or Federal statute or regulation. In the event that hazardous materials are discovered and identified by TSC, TSC's sole duty shall be to notify Client.

6. MONITORING: If this Agreement includes testing construction materials or observing any aspect of construction of improvements, Client's construction personnel will verify that the pad is properly located and sized to meet Client's projected building loads. Client shall cause all tests and inspections of the site, materials and work to be timely and properly performed in accordance with the plans, specifications, contract documents, and TSC's recommendations. No claims for loss, damage or injury shall be brought against TSC unless all tests and inspections have been so performed and unless TSC's recommendations have been followed.

TSC's services shall not include determining or implementing the means, methods, techniques or procedures of work done by the contractor(s) being monitored or whose work is being tested. TSC's services shall not include the authority to accept or reject work or to in any manner supervise the work of any contractor. TSC's services or failure to perform same shall not in any way operate or excuse any contractor from the performance of its work in accordance with its contract. "Contractor" as used herein shall include subcontractors, suppliers, architects, engineers and construction managers.

Information obtained from borings, observations and analyses of sample materials shall be reported in formats considered appropriate by TSC unless directed otherwise by Client. Such information is considered evidence, but any inference or conclusion based thereon is, necessarily, an opinion also based on engineering judgment and shall not be construed as a representation of fact. Subsurface conditions may not be uniform throughout an entire site and ground water levels may fluctuate due to climatic and other variations. Construction materials may vary from the samples taken. Unless otherwise agreed in writing, the procedures employed by TSC are not designed to detect intentional concealment or misrepresentation of facts by others.

7. DOCUMENTS AND SAMPLES: Client is granted an exclusive license to use findings and reports prepared and issued by TSC and any sub-consultants pursuant to this Agreement for the purpose set forth in TSC's proposal provided that TSC has received payment in full for its services. TSC and, if applicable, its sub-consultant, retain all copyright and ownership interests in the reports, boring logs, maps, field data, field notes, laboratory test data and similar documents, and the ownership and freedom to use all data generated by it for any purpose. Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of TSC's report.

8. TERMINATION: TSC's obligation to provide services may be terminated by either party upon (7) seven days prior written notice. In the event of termination of TSC's services, TSC shall be compensated by Client for all services performed up to and including the termination date, including reimbursable expenses. The terms and conditions of these General Conditions shall survive the termination of TSC's obligation to provide services.

9. PAYMENT: Client shall be invoiced periodically for services performed. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to in writing for valid cause within sixty (60) days at the rate of twelve (12%) per annum (or the maximum interest rate permitted by applicable law, whichever is the lesser) until paid and TSC's costs of collection of such accounts, including court costs and reasonable attorney's fees.

10. WARRANTY: TSC's professional services will be performed, its findings obtained and its reports prepared in accordance with these General Conditions and with generally accepted principles and practices. In performing its professional services, TSC will use that degree of care and skill ordinarily exercised under similar circumstances by members of its profession. In performing physical work in pursuit of its professional services, TSC will use that degree of care and skill ordinarily used under similar circumstances. This warranty is in lieu of all other warranties or representations, either express or implied. Statements made in TSC reports are opinions based upon engineering judgment and are not to be construed as representations of fact.

Should TSC or any of its employees be found to have been negligent in performing professional services or to have made and breached any express or implied warranty, representation or contract, Client, all parties claiming through Client and all parties claiming to have in any way relied upon TSC's services or work agree that the maximum aggregate amount of damages for which TSC, its officers, employees and agents shall be liable is limited to $50,000 or the total amount of the fee paid to TSC for its services performed with respect to the project, whichever amount is greater.

In the event Client is unwilling or unable to limit the damages for which TSC may be liable in accordance with the provisions set forth in the preceding paragraph, upon written request of Client received within five days of Client's acceptance of TSC's proposal together with payment of an additional fee in the amount of 5% of TSC's estimated cost for its services (to be adjusted to 5% of the amount actually billed by TSC for its services on the project at time of completion), the limit on damages shall be increased to $500,000 or the amount of TSC's fee, whichever is the greater. This charge is not to be construed as being a charge for insurance of any type, but is increased consideration for the exposure to an award of greater damages.

11. INDEMNITY: Subject to the provisions set forth herein, TSC and Client hereby agree to indemnify and hold harmless each other and their respective shareholders, directors, officers, partners, employees, agents, subsidiaries and division (and each of their heirs, successors, and assigns) from any and all claims, demands, liabilities, suits, causes of action, judgments, costs and expenses, including reasonable attorneys' fees, arising, or allegedly arising, from personal injury, including death, property damage, including loss of use thereof, due in any manner to the negligence of either of them or their agents or employees or independent contractors. In the event both TSC and Client are found to be negligent or at fault, then any liability shall be apportioned between them pursuant to their pro rata share of negligence or fault. TSC and Client further agree that their liability to any third party shall, to the extent permitted by law, be several and not joint. The liability of TSC under this provision shall not exceed the policy limits of insurance carried by TSC. Neither TSC nor Client shall be bound under this indemnity agreement to liability determined in a proceeding in which it did not participate represented by its own independent counsel. The indemnities provided hereunder shall not terminate upon the termination or expiration of this Agreement, but may be modified to the extent of any waiver of subrogation agreed to by TSC and paid for by Client.

12. SUBPOENAS: TSC's employees shall not be retained as expert witnesses except by separate, written agreement. Client agrees to pay TSC pursuant to TSC's then current fee schedule for any TSC employee(s) subpoenaed by any party as an occurrence witness as a result of TSC's services.

13. OTHER AGREEMENTS: TSC shall not be bound by any provision or agreement (i) requiring or providing for arbitration of disputes or controversies arising out of this Agreement or its performance, (ii) wherein TSC waives any rights to a mechanics lien or surety bond claim; (iii) that conditions TSC's right to receive payment for its services upon payment to Client by any third party or (iv) that requires TSC to indemnify any party beyond its own negligence These General Conditions are notice, where required, that TSC shall file a lien whenever necessary to collect past due amounts. This Agreement contains the entire understanding between the parties. Unless expressly accepted by TSC in writing prior to delivery of TSC's services, Client shall not add any conditions or impose conditions which are in conflict with those contained herein, and no such additional or conflicting terms shall be binding upon TSC. The unenforceability or invalidity of any provision or provisions shall not render any other provision or provisions unenforceable or invalid. This Agreement shall be construed and enforced in accordance with the laws of the State of Illinois. In the event of a dispute arising out of or relating to the performance of this Agreement, the breach thereof or TSC's services, the parties agree to try in good faith to settle the dispute by mediation under the Construction Industry Mediation Rules of the American Arbitration Association as a condition precedent to filing any demand for arbitration, or any petition or complaint with any court. Paragraph headings are for convenience only and shall not be construed as limiting the meaning of the provisions contained in these General Conditions.

EXHIBIT D

PROJECT DATA SHEET

TESTING SERVICE CORPORATION

General Information: _____

Project Name:_____

Project Address:_____

City/State/Zip:_____

County: _____

Project Manager: _____

Email:_____

Telephone:_____

Site Contact:_____

Email:_____

Telephone:_____

Send Invoice to:_____

Purchase Order Number:_____

Attention: _____

Company:_____

Address:_____

City/State/Zip:_____

Email: _____

Telephone: _____

Cell Phone:_____

If waivers are required, please provide the Owner's name here _____

IMPORTANT NOTES: _____

_____

_____

Completed by: _____

Signature:_____

Name:_____

Date:_____

Distribute Reports as Follows:

Name:_____

Company:_____

Address:_____

City/State/Zip:_____

Email:_____

Telephone:_____

Cell Phone: _____

Name:_____

Company:_____

Address:_____

City/State/Zip:_____

Email:_____

Telephone:_____

Name:_____

Company:_____

Address:_____

City/State/Zip:_____

Email:_____

Telephone:_____

Name:_____

Company:_____

Address:_____

City/State/Zip:_____

Email:_____

Telephone:_____

Revised 7/2018

EXHIBIT D

Delivery Method:
Via Email: ehsu@v3co.com

November 21, 2024

Elora I. Hsu, P.E.
V3 Companies
7325 Janes Avenue
Woodridge, IL 60517

RE: Rollins Road QL-B Phase 2
Proposal for Professional SUI Services:
SAM Proposal Number 1023079859

Dear Elora:

Surveying And Mapping, LLC (SAM) is pleased to have the opportunity to provide V3 Companies with professional SUI services in connection with the Division of Transportation project located in Lake County, Illinois. The attached scope of services and associated fees is based upon our understanding of the project per the information provided to SAM via email on October 12, 2024.

After you have reviewed the attached proposed Scope of Services, Fee Estimate, and Schedule, please do not hesitate to call if you have any questions or comments. Again, thank you for the opportunity to provide this proposal. We are looking forward to working with you on this project.

Sincerely,
SAM

Bill Fleming, PLS
Survey Manager

Cc: Mark Johnson, PLS, Director of Midwest Operations
Marc Bellapianta, PMP, Senior Project Manager

TEST HOLE SERVICES SCOPE OF WORK

- Collect vertical data and other information from up to (50) pothole excavations, at locations to be provided by client in Exhibit A.
- Provide all equipment, personnel and supplies required to perform its Pothole Services. SAM will determine which equipment, personnel and supplies are required to perform such services.
- Obtain necessary permits from city, county or other municipal jurisdictions to allow SAM to work in existing Right-of-Ways, easements, etc.
- Comply with applicable utility damage prevention laws and coordinate with utility company representatives, as required.
- Conduct an appropriate investigation of the existing site conditions.
- Sweep proposed conflicts with appropriate surface geophysical equipment and perform surveying procedures as necessary to "set up" locations in the field.
- Revise pothole locations as may be necessary to expose the target utilities. Significant revisions will be reported to/discussed with the Client prior to proceeding with the excavation.
- In paved areas, neatly cut and remove existing pavement. Paving cuts will typically not exceed 144 square inches or 12" in diameter.
- Excavate potholes to expose target utilities in such a manner as to maintain the safety of the excavations and the integrity of the target utilities. Vacuum excavation equipment is employed as the preferred and primary method of excavation. However, hand digging and other non-destructive methods may be employed as necessary to supplement vacuum excavation.
- Expose target utilities to the extent required for data collection purposes. Document conditions which limit or prevent full exposure and/or complete data collection.
- Measure, evaluate and record as existing conditions allow a) the material type or composition of exposed utilities, b) the elevation of the top of piped utilities, conduits, casings, etc., c) the outside diameter of piped utilities, conduits, casings, etc., under 18" I.D. d) the elevation of the top and bottom of encasements, ducts and non-encased, multi-conduit configurations, e) the width of encasements, ducts and non-encased, multi-conduit configurations and f) the elevation of a recoverable mark or marker, set/installed at existing grade over the primary target utility.
- The sizes of all storm drainage and irrigation piping will be reported as an O.D. measurement.
- Elevations reported by SAM shall maintain vertical tolerances of +/- 0.1' based upon the values for the vertical survey control as provided by the Client.
- Survey the horizontal position of the recoverable mark or marker, set/installed at existing grade over the primary target utility at each pothole.
- Obtain "down hole" images of exposed utilities and "perspective" images of pothole locations.
- Unless required by the utility owner, permits, etc. potholes will be backfilled with the spoils removed from the excavations. Pothole excavations will be backfilled and

compacted in lifts. Compaction will be achieved as nearly as possible to pre-existing conditions or as required by permit.

- Provide restoration of pavement within the limits of the original paving cut. Where potholes have been excavated in areas other than pavement, the disturbed areas will be restored as nearly as reasonably possible to the pre-existing conditions.
- Analyze and correlate vertical data to the results of previous Horizontal Mapping (if any), utility records, etc. Resolve any resulting conflicts through supplemental field investigations and/or revisions of the Horizontal Mapping deliverables, as necessary.

COST ESTIMATE

- SAM proposes to complete this work for the ~~Lump Sum Fee of~~ **time and materials not to exceed cost of $80,000.** ~~**$147,000.00**~~

EXHIBIT A

STANDARD RATE SCHEDULE
CHICAGO 2024

Effective January 2024

SURVEY OFFICE PERSONNEL RATES:

Office / Department Manager	$300.00	per hour
Senior Project Manager	$250.00	per hour
Project Manager	$220.00	per hour
Staff Surveyor	$200.00	per hour
Phase Manager	$165.00	per hour
Project Coordinator	$150.00	per hour
Senior Office Technician	$130.00	per hour
Office Technician III	$125.00	per hour
Office Technician II	$120.00	per hour
Office Technician I	$115.00	per hour
Project Specialist	$125.00	per hour
Administration / Clerical Support	$110.00	per hour

SURVEY FIELD CREW RATES:

Field Ops Manager	$195.00	per hour
Field Coordinator / Supervisor	$135.00	per hour
One (1) Person Survey Field Crew	$135.00	per hour
Two (2) Person Survey Field Crew	$195.00	per hour
Three (3) Person Survey Field Crew	$255.00	per hour
Additional Rodperson or Flagperson	$70.00	per hour

UTILITY ENGINEERING OFFICE PERSONNEL RATES:

Office / Department Manager	$300.00	per hour
Senior Project Manager	$250.00	per hour
Project Manager / Senior Engineer	$230.00	per hour
Staff Engineer	$220.00	per hour
Phase Manager	$160.00	per hour
Senior Office Technician	$135.00	per hour
Office Technician III	$125.00	per hour
Office Technician II	$120.00	per hour
Office Technician I	$110.00	per hour
Project Specialist	$125.00	per hour
Administration / Clerical Support	$110.00	per hour

SAM
890 Cambridge Drive / Elk Grove Village, IL 60007
224-404-1300 Office

UTILITY ENGINEERING FIELD CREW RATES:

Field Ops Manager	$195.00	per hour
Field Coordinator / Supervisor	$145.00	per hour
Field Technician III	$145.00	per hour
Field Technician II	$140.00	per hour
Field Technician I	$130.00	per hour

UTILITY COORDINATION OFFICE PERSONNEL RATES:

Office / Department Manager	$325.00	per hour
Project Manager / UC Manager	$275.00	per hour
Senior Utility Coordinator	$245.00	per hour
Utility Coordinator III	$230.00	per hour
Utility Coordinator II	$120.00	per hour
Utility Coordinator I	$110.00	per hour
Project Specialist	$125.00	per hour
Administration / Clerical Support	$110.00	per hour

UTILITY COORDINATION FIELD CREW RATES:

Senior Utility Construction Engineering Inspector	$170.00	per hour
Utility Construction Engineering Inspector III	$150.00	per hour
Utility Construction Engineering Inspector II	$130.00	per hour
Utility Construction Engineering Inspector I	$120.00	per hour

FIBER ENGINEERING PERSONNEL RATES:

Office/Department Manager	$300.00	per hour
Senior Project Manager	$250.00	per hour
Project Manager	$215.00	per hour
Phase Manager	$170.00	per hour
OSP Engineer III	$135.00	per hour
OSP Engineer II	$125.00	per hour
OSP Engineer I	$125.00	per hour
Drafter	$100.00	per hour
Project Specialist	$125.00	per hour
Administration / Clerical Support	$110.00	per hour

FIBER ENGINEERING FIELD CREW RATES:

Fielder	$105.00	per hour
OSP Inspector	$105.00	per hour
Senior OSP Inspector	$140.00	per hour

GEOSPATIAL OFFICE PERSONNEL RATES:

SAM
890 Cambridge Drive / Elk Grove Village, IL 60007
224-404-1300 Office

Director / Operations Manager	$360.00	per hour
Senior Project Manager	$275.00	per hour
Acquisition Manager	$240.00	per hour
Project Manager	$210.00	per hour
Aircraft Pilot	$205.00	per hour
UAS Pilot	$130.00	per hour
Project Lead / Sr. Office Technician / Sensor Op Lead (SR Tech 3)	$140.00	per hour
Two (2) Person UAS Geo Crew – Unmanned Pilot & Observer	$235.00	per hour
Two (2) Person UAS Survey Crew – Unmanned Pilot & Observer	$200.00	per hour
Three (3) Person UAS Crew – Unmanned Pilot & 2 Observers	$365.00	per hour
Photogrammetrist / Project Lead /sensor operator (Tech3)	$135.00	per hour
Acquisition / Calibration / Aerial Triangulation Technician (Tech2)	$120.00	per hour
LiDAR / Photogrammetry/GIS Technician (Tech1) $105.00 per hour		
Project Specialist	$125.00	per hour
Administration / Clerical Support	$125.00	per hour

GIS OFFICE PERSONNEL RATES:

GIS Office Manager	$225.00	per hour
Director / Operations Manager	$215.00	per hour
Senior Project Manager	$185.00	per hour
Project Manager	$142.00	per hour
Phase Manager	$125.00	per hour
GIS Office Technician 1	$90.00	per hour
GIS Office Technician 2	$105.00	per hour
GIS Office Technician 3	$115.00	per hour
Field Coordinator	$105.00	per hour
GIS Field Technician	$90.00	per hour
IT / Web Administrator	$185.00	per hour
Programmer / Solutions Architect	$130.00	per hour
Administration / Clerical Support	$120.00	per hour

SURVEY EQUIPMENT RATES:

GPS Receiver	$10.00	per hour
Robotic Total Station S-7	$20.00	per hour
Robotic Total Station S-9	$20.00	per hour
SX-10	$35.00	per hour
Tier 1 HDS Scanner (BLK360 & Faro)	$33.00	per hour
Tier 2 HDS Scanner RTC 360	$60.00	per hour
Tier 3 HDS Scanner Leica P20, P40, P50	$312.00	per hour
Digital Level	$5.00	per hour
UTV	$25.00	per hour
Aluminum Boat	$15.00	per hour
Echo Sounder –Remote Controlled Boat	$25.00	per hour

Echo Sounder-Sonarmite	$9.25	per hour
VM810 Survey	$5.75	per hour
RD8000 Survey	$11.50	per hour
IKE-IKE4	$30.00	per hour
Tool Tracking Equipment (Hans Box & Traxall)	$5.00	per hour
SPAR 300 Kit	$5.00	per hour
Weather Station	$6.00	per hour

UTILITY ENGINEERING EQUIPMENT RATES:

GPS Receiver	$10.00	per hour
Robotic Total Station S-7	$20.00	per hour
Robotic Total Station S-9	$20.00	per hour
SX-10	$35.00	per hour
Digital Level	$5.00	per hour
UTV	$25.00	per hour
SPAR 300 Kit	$5.00	per hour
Vacuum Excavator Truck (Standard)	$100.00	per hour
Vacuum Excavator Truck (Hybrid)	$150.00	per hour
Vacuum Excavator Towed Trailer	$60.00	per hour
Vacuum Excavator (Canister)	$5.00	per hour
Single Axle Trailer (Compressor/Generator-Towed) IR185	$17.00	per hour
Magnetometer (EM-61)	$90.00	per hour
SUE Equipment Package	$8.00	per hour
Ground Penetrating Radar (GPR-Push Cart)	$12.50	per hour
GPR Towed (Raptor Towed Array)	$350.00	per hour
Confined Space Entry Package (CSE)	$13.00	per hour
All Material Locator (AML PRO)	$20.00	per hour

FIBER ENGINEERING EQUIPMENT RATES:

Fiber Engineering Equipment Package	$13.50	per hour

GEOSPATIAL EQUIPMENT RATES:

Riegl VQ 1560II	$1,300.00	per hour
Riegl 480II or 780I	$1,000.00	per hour
Mobile Mapping System, includes 360° Camera System (Equipment Only)	$1,000.00	per hour
Mobile Mapping Equipment Stand-by Fee (Equipment Only)	$200.00	per hour
HDS Laser Scanner	$100.00	per hour
High Rail Equipped Vehicle	$10.00	per hour
Weather Station	$10.00	per hour
FLIR Corona 350 with a Quad Camera Gimbal System	$300.00	per hour
Oblique HD Camera System – Manned Aircraft	$30.00	per hour
Video Camera System – Manned Aircraft	$5.00	per hour

360° Camera System – Terrestrial or Marine Stand Alone	$100.00	per hour
Helicopter (Turbine Engine Powered)	$1,450.00	per hour
Helicopter (Reciprocal Engine Powered)	$850.00	per hour
Fixed Wing Twin Engine (Piston)	$1,300.00	per hour
Fixed Wing Single Engine (Piston)	$750.00	per hour
Fixed Wing Single Engine (Turbine)	$1,400.00	per hour
UAS Autel Devon2 / Mavic / Phantom/ Small Lift TIER 1	$50.00	per hour
UAS Alta-X / Galaxy / SkyFront Heavy Lift w/ LiDAR TIER 3	$300.00	per hour
UAS M600 type Inspection Platform TIER 2	$75.00	per hour
Handheld DSLR Camera	$50.00	per hour
GPS Receiver (Unmanned)	$10.00 per hour/$100.00	per day
Geospatial Work Station	$15.00	per hour
VRS Network	$4.20	per hour
UTV	$10.00	per hour
Additional Vehicle	$10.00	per hour
Total Station	$2.85	per hour
SL RAT	$20.00	per hour
IKE	$28.00	per hour

Geospatial Equipment Fees:

Manned Aircraft fees are incurred at the per hour rate for mobilization and acquisition with point of origin from one of our Airport Bases: Austin, TX; Atlanta, GA; Moore Co, NC and Easton, MD.

OTHER DIRECT RATES:

Lodging/Per Diem*	GSA
Mileage	$0.93 per mile
Additional Vehicle (plus mileage)	$20.00 per hour
Environmental Supplies	$25.00 per day
Recording Fees	At Cost plus 10%
Permitting Fees	At Cost plus 10%
Third-Party Traffic Control	At Cost plus 10%
Metered Water	At Cost plus 10%
Backfill Material	At Cost plus 10%
Spoils Disposal	At Cost plus 10%
Coring	At Cost plus 10%
Document Reproduction	At Cost plus 10%
Records Collection Fees	At Cost plus 10%
All other services not described	At Cost plus 10%

NOTES:

*Per Diem based on GSA rates and may change depending on location and availability of accommodations. This is a general practice and used for estimating purposes.

All holiday, travel, per diem, etc., and all additional items not listed herein shall only be permitted where approved by Company in writing and in advance for any particular project.

Overtime Rates:

The Overtime Rate for Field Survey Personnel shall be computed at 1.5 times the hourly rate in excess of 8 hours per day. The Overtime Rate for Office Survey Personnel shall be computed at 1.5 times the hourly rate in excess of 8 hours per day.

Travel & Subsistence:

All travel and subsistence expenses for personnel are invoiced at GSA Rates or as allowed by the Client contract. Cost of mileage on company-owned vehicles is computed at $0.93 cents per mile.

Purchased Services:

All purchase services are invoiced at actual cost plus ten percent (10%) administrative fee. These include but are not limited to reproduction, computer time, long distance telephone, consultants, subcontract services, rented or leased equipment, expendable supplies, and project required special supplies.

Taxes:

Any state/local sales tax or gross receipts tax, if applicable to the services provided, are in addition to the hourly rates and will be applied on the invoice for services.

Labor Rate Adjustment:

The Schedule of Rates will remain in force for a six (6) month period from the effective date of utilization and subject to an escalation on each “six (6) month anniversary date” unless otherwise agreed to by Client contract. The escalation rate shall be the most recent 6-month Employment Cost Index (ECI) as published by the United States Department of Labor (DOL), Bureau of Labor Statistics. In no event shall the next six (6) month Schedule of Rates be less than the prior period.

STANDARD TERMS AND CONDITIONS

1. Access To Site - Unless otherwise stated, SAM, LLC will have access to the project site for activities necessary for the performance of the services. SAM, LLC will take precautions to minimize damage due to these activities but has not included in the fee the cost of restoration of any resulting damage.

2. Ownership Of Documents - Client acknowledges that all original papers, documents, maps, surveys, digital data and other work product and copies thereof, produced by SAM, LLC pursuant to this Agreement shall remain the property of SAM, LLC, except documents which are to be filed with public agencies. Client further acknowledges that Client's right to utilize the services and work product performed pursuant to this Agreement will continue only so long as Client is not in default pursuant to the terms and conditions of this Agreement and Client has performed all obligations under this Agreement.

3. Copyright - The parties hereto agree that all protections of the United States and Texas state copyright laws shall be applicable to the work product to the benefit of SAM, LLC, including common law and statutory law, whether or not any copyright for such work product actually is registered, and without regard to whether or not such copyright actually applies to such work product.

4. Invoices - Invoices for fees and all other charges will be submitted monthly for all services rendered as the work progresses, and the net amount shall be due and payable as of the date of the invoice at SAM, LLC's office in Austin, Travis County, Texas.

5. Client's Obligation to Pay - Client's obligation to pay is solely that of Client, and the acts or omissions of any third party shall not affect that obligation. All sums due and not received shall be construed as past due. To cover the costs of collection, all past-due amounts will incur a late charge of one and one-half percent (1 ½ %) per month until paid. The Client shall pay all attorney's fees or court costs incurred by SAM, LLC in collecting any past-due amounts. In the event that Client fails to pay SAM, LLC within thirty (30) days after invoices are rendered, then Client agrees that SAM, LLC shall have the right to stop or suspend work and consider the non-payment as grounds for a total breach of this Agreement.

6. Termination Of Services - This Agreement may be terminated by either party upon five (5) days' written notice, by mutual consent or in the event of persistent failures of performance of material terms and conditions of this Agreement by the other party through no fault of the terminating party. SAM, LLC shall then be paid for the services completed up to the time of the termination date based upon the attached Rate Schedule.

7. Dispute Resolution – If a dispute arises out of or in connection with or relation to this Agreement, the parties shall endeavor reasonably to settle the dispute through direct discussions. If a dispute is not resolved through direct discussions, claims or disputes in connection with the services provided under this Agreement between Client and SAM, LLC shall be submitted to non-binding mediation in Austin, Travis County, Texas. In the event non-binding mediation does not result in resolution of the claim or dispute, the dispute shall be resolved by litigation in the courts of the state in which the services are performed, and the parties hereby consent and submit to exclusive venue in, and the exclusive jurisdiction of, such courts and waive all rights to proceed in any other venue or jurisdiction. Client and SAM, LLC agree to include a similar dispute resolution agreement with all contractors, subcontractors, subconsultants, suppliers and fabricators, thereby providing for mediation as the primary method for dispute resolution between all parties. The substantially prevailing party in any litigation arising out of or relating to this Agreement shall be entitled to recover from the other party reasonable attorneys' fees, costs, and expenses incurred by the prevailing party.

8. Governing Law - This Agreement shall be construed and enforced in accordance with the laws of Illinois.

9. Indemnification - The Client shall, to the fullest extent permitted by law, indemnify and hold harmless SAM, LLC, its officers, directors, members, managers, employees, agents, insurers and subconsultants (collectively "SAM Parties") from and against all damages, liabilities, penalties, fees, claims, suits and costs, including reasonable attorney's fees and defense costs, arising out of or in any way connected with the performance by any of the SAM Parties of the services under this Agreement, excepting only those damages, liabilities or costs attributable to the sole negligence or willful misconduct of SAM, LLC.

10. Limitation Of Liability - In recognition of the relative risks, rewards and benefits of the project to both the Client and SAM, LLC, the risks have been allocated such that the Client agrees that, to the fullest extent permitted by law, total liability to the Client for any and all injuries, claims, suits, costs, liabilities, fees, losses, expenses, penalties, fines, damages or claim expenses arising out of this Agreement from any cause or causes shall not exceed the total fee paid by the Client to SAM, LLC, excluding any sales tax, for the services rendered. Such causes include, but are not limited to, SAM, LLC's negligence, errors, omissions, strict liability, breach of contract or breach of warranty. Except for the indemnification provisions provided herein, neither party shall be liable to the other for consequential, incidental, indirect, punitive or special damages (including loss of profits, data, business or goodwill), regardless of the legal theory advanced or of any notice given as to the likelihood of such damages.

11. Authority - Client affirmatively represents and states that he/she is authorized to enter into this Agreement, either as the owner or an officer of **V3 Companies**, or as Company's duly authorized agent, trustee or receiver for the purpose of entering into this Agreement.

12. Professional Services - All engineering and surveying services are regulated under the Illinois Division of Professional Registration.

13. Use of Work Product - SAM, LLC acknowledges that Client is requesting services to be performed under the applicable work order(s) for the purpose of providing such information to other parties including, but not limited to, clients, customers, governmental entities and other interested parties. Client agrees that the work product prepared by SAM, LLC may not be altered in any way except for the addition of page numbers or exhibit captions necessary to incorporate that work product into other documents. SAM, LLC agrees to provide copies of the work product mutually agreed upon by both parties described in the work orders hereof.

14. Subpoenas or Requests for Information - In the event SAM, LLC or any of its personnel are requested or authorized by the Client or third parties with which the Client is involved in a claim or dispute or, are required by government regulation, subpoena, or other legal process, to produce any information or our personnel as witnesses with respect to the services performed by SAM, LLC hereunder, the Client will, so long as neither SAM, LLC nor its personnel are a party to the proceeding in which the information or personnel are sought, reimburse SAM, LLC for its professional time and expenses, as well as the actual fees and expenses of SAM, LLC's counsel, incurred in responding to such requests.

SURVEYING AND MAPPING LLC (SAM, LLC)	**V3 COMPANIES**
Signature: Wm. J. Fl	Signature:
Date: November 18, 2024	Date:
Printed Name: William J. Fleming, PLS	Printed Name:
Title: Survey Manager	Title:

EXHIBIT D

Santacruz Land Acquisitions

222 Northfield Road · Suite 201· Northfield, IL 60093
Telephone: 847.251.5800 | Facsimile: 847.868.9620
www.santacruz-associates.com

Providing Right-of-Way Acquisition services since 1992

PROPOSAL FOR LAND ACQUISITION SERVICES

Rollins Road from Grand Avenue to Washington Avenue
V3 Companies for the benefit of
Lake County Division of Transportation

Santacruz Land Acquisitions specializes in negotiating and acquiring parcels of land for right-of-way use by governmental bodies in roadway construction and other public infrastructure projects. Founded in 1992, we have been helping our clients acquire right-of-way on budget and in a timely manner to keep their projects on schedule. We have worked extensively with the Illinois Department of Transportation (IDOT), the Illinois State Toll Highway Authority (ISTHA), Cook County, Lake County, Will County and other local municipalities in facilitating property owners through the acquisition process with great success.

Having extensive experience with right of way projects, we understand the importance of keeping on schedule. On-time lettings gives the Lake County Division of Transportation, the Local Public Agency ("LPA") the best use of its resources and strengthens the efficiencies in the implementation of its roadway improvement program. To achieve your goals, it is critical that your land acquisition consultant understands the importance and addresses three critical issues in your acquisition of right of way:

- Deliver the right of way on-time to meet the letting.
- Manage the acquisition risks, including the cost of condemnation litigation.
- Compliance with land acquisition policies and procedures and FWHA policies that affect the certification and funding of your project.

Santacruz Land Acquisitions ("Santacruz") will work with the staff for the LPA and/or, V3 Companies, Engineer for the LPA, ("Consultant") to develop a land acquisition plan for the reconstruction of Rollins Road from Grand Avenue to Washington Avenue (the "Project") to assure that the goals are met.

Santacruz Land Acquisitions is certified as a Disadvantaged Business Enterprise (DBE) by the State of Illinois, Department of Transportation and a Minority Business Enterprise (MBE) with the City of Chicago and Cook County.

COMPENSATION

Santacruz shall be entitled to compensation, based on **eighty** (**80**) projected parcels of right-of-way, on a per parcel basis, as follows:

APPRAISALS:	**$221,000.00**
NEGOTIATIONS:	**$272,000.00**

Santacruz is not proposing appraisals for fifteen (15) of the parcels which are acquisitions due to Common Law ownership into the adjacent roadway.

In fulfillment of its project management responsibilities, Santacruz will attend and/or participate in meetings and conference calls for consultations on the project. This will include, without limitation, kick-off meetings, planning discussions, project strategy development and review of parcels with acquisition challenges.

EXHIBIT D

DIRECT EXPENSES RELATED TO LAND ACQUISITION

Santacruz shall invoice the LPA or Consultant for any fees and charges related to the acquisitions including, without limitation, (i) the cost of the later date title commitments, (ii) the cost of title insurance policies obtained on the parcels to be acquired, (iii) the cost of recording any necessary documents to complete the conveyance and obtain clear title, (iv) lender's fees related to the processing of any partial releases needed to provide clear title, and (v) land trustee processing fees. Santacruz shall include **$750.00** per parcel towards the payment of these charges. Santacruz shall pay any such fees and charges in excess of the **$750.00** per parcel allowance for which Santacruz Land Acquisitions shall be entitled to additional compensation in the amount of any such payments pursuant to a separate work order issued.

Based on the projected total number of parcels of right-of-way to be acquired for the Project, the land acquisition negotiation services provided herein are offered at a cost not to exceed **$554,000.00** as follows:

Land Acquisition Services	**$493,000.00**
Project Management Services	**$1,000.00**
Estimated Direct Billable Expenses	**$60,000.00**

The pricing on this proposal shall be good for twelve months of the date of this proposal: November 17, 2024.

See attached for Scope of Services and Team resumes.

We look forward to the opportunity of serving you on this project. If you have any questions, do not hesitate to contact Javier Steve Santacruz at 847-868-9620 or via email at javier@santacruz-associates.com.

Sincerely,

Javier Steve Santacruz

Accepted this ____ day of _____, 2024
V3 Companies

_____

By: _____
Its: _____

EXHIBIT D

Santacruz Land Acquisitions

PRICING SCHEDULE

Appraisal Services (per parcel)

Appraisals	$3,400.00
Revision to appraisal due to change in ROW or plans[1]	$1,700.00 - $3,400.00

Negotiation Services (per parcel)

Negotiation and acquisition services for Right of Way including, without limitation, documentation of conveyance of property interest	$3,400.00
Additional negotiations due to change in ownership or plans[1]	$1,700.00 - $3,400.00

Witness Services (if applicable)

Rate for each ½ day in pretrial conference or in court for Negotiator[1]	$1,000.00
Rate for each ½ day in pretrial conference or in court for Appraiser[1]	$1,000.00
Hourly rate for consultation not otherwise specifically provided for herein	$250.00

Title Services (if applicable)

Later date commitment – In addition to actual recording costs	
+ Administrative fee	$25.00
Title insurance policies – In addition to actual recording costs	
+ Administrative fee	$25.00
Recording of Documents – In addition to actual recording costs	
+ Administrative fee	$25.00
Copies of recorded documents – In addition to actual copying costs & research fees	
+ Administrative fee	$25.00

[1] Requires supplemental work order.

EXHIBIT D

Santacruz Land Acquisitions

LAND ACQUISITION SCOPE OF SERVICES

Santacruz Land Acquisitions ("Santacruz") shall provide Right-of-Way Acquisition Services as follows:

- Project Management
- Appraisals and review appraisals
- Negotiations

All services shall be performed at the direction of the County and in accordance with the policies and procedures of IDOT, as applicable, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 ("Uniform Act"), as amended (49 CFR Part 24), the Illinois Eminent Domain Act (735 ILCS 30) ("Eminent Domain Act"), and the Illinois Code of Civil Procedure ("Code of Civil Procedure").

- **Notice to Proceed**. Our services start after authorization to proceed from LPA and IDOT (as necessary).
- **Kick-off Meeting**. Santacruz will meet with LPA and Consultant to discuss the Project, identify issues and develop any necessary strategies to assure the timely completion of the Project.
- **Delivery and Review of Project Information**. LPA or Consultant will provide Santacruz with plats of highway, legal descriptions, the most recent title commitments and any other pertinent information regarding the property owner for each parcel assigned for acquisition. In addition, LPA or Consultant will also provide Santacruz with a set of project plans, including, (i) plan and profile, (ii) drainage and utilities, (iii) pavement markings and (iv) cross sections.
- **Introductory Notice to Owners**. The appraiser will notify the property owner of the proposed taking and will invite the property owner to be present during the inspection by the appraiser.
- **Appraisal**. The appraiser shall make a detailed inspection of the properties and make such investigations and studies as are consistent with industry standard and necessary to derive sound conclusions for the preparation of appraisal reports. As necessitated by a change of ownership, a revision to the right of way or for condemnation purposes, Santacruz will furnish and deliver updated or revised appraisals pursuant to a separate or supplemental work order.
- **Negotiation and Acquisition**. Santacruz shall commence negotiations after approval by LPA of the appraisals and the amount of just compensation to be offered to the property owner.
    - Before contacting the property owner, Santacruz will prepare and send the introductory letter to the property owner on the LPA's letterhead.
    - Santacruz will present the property owner with an offer package, which shall contain the Offer to Purchase and other documents to assist the property owner with reviewing the right-of-way request.
    - Santacruz will make all reasonable efforts to complete the acquisition of the right-of-way from the property owner.
    - Santacruz will not have any authority to determine administrative settlements. Santacruz will consult with LPA for approval of any counter offers and upon acceptance by LPA of any such counter-offer, Santacruz will prepare the necessary documentation for administrative settlement.
    - Santacruz will review the title commitment provided for each parcel to determine the liens and encumbrances that will need to be addressed in order to complete the acquisition process for LPA.
    - If, during its discussions with the property owner, errors in the plans are discovered or the property owner requests design changes, Santacruz will immediately notify LPA and Consultant with this information. At any time during negotiations for situations involving design changes, errors in plans or for any other

reason, if requested by LPA or Consultant, Santacruz will cease negotiations on certain parcels until corrected information or further instruction is provided to Santacruz.

- Upon successful negotiations with the property owner, Santacruz will prepare all necessary conveyance documents in order to complete the acquisition and obtain title approval for the property. Santacruz will submit the completed parcel file with original conveyance documents, any documents necessary for title clearance, the Negotiator's Log documenting all negotiation activities, copies of all correspondence with the property owner, title commitments, plats, and all other documentation as required by LPA and IDOT (if applicable).

- **Project Management**. Santacruz shall appoint a Project Manager for this project. The Project Manager will provide proposed project time-line with milestones on delivery. The Project Manager will coordinate all deliverables, keep project on schedule and maintain the channels of communication with the LPA. The Project Manager will attend project kick-off meetings and project status meetings. In addition, when needed, the Project Manager will review construction plans and provide comments. The Project Manager shall provide QA/QC oversight for this contract. In addition to monthly status reports prepared for our clients in which we review the progress of each parcel, Santacruz meets on a bi-weekly basis with its production team to assure that projects are on schedule and proceeding to letting.

  The paralegal team at Santacruz reviews every title commitment to alert the negotiator of title concerns and to prepare for title clearance. Also, all conveyance documents prepared by the paralegals are reviewed by the head paralegal and/or the negotiator. Finally, all final packages of settled or condemned parcels are compiled using QA/QC checklist and reviewed by the Project Manager to assure proper completion.

- **Condemnation Support**. Santacruz understands that appearances in court and/or pretrial conferences, which may include depositions, and preparation for litigation or pre-trial conferences may be required by the LPA so that it may complete the acquisition of the property through condemnation. In the event, after making every reasonable effort to contact and negotiate with a property owner, Santacruz is unable to obtain a settlement for the acquisition of the right-of-way, Santacruz shall refer the parcel to the LPA for acquisition by condemnation.

  In such case, at the request of LPA or its trial counsel, the Appraiser assigned to appraise the parcel shall make any such appearances or complete such preparation work in order to assist with this process. In addition, at the request of LPA or its trial counsel, the Negotiator assigned to negotiate the parcel shall make any such appearances or complete such preparation work in order to assist with this process. Such requests for trial appearances or condemnation support will be pursuant to a separate or supplemental work order.

THE TEAM

Javier Steve Santacruz – President and Project Manager

Javier has more than 25 years of experience in providing right-of-way services for a variety of governmental agencies. He has assisted on planning of right-of-way during plan development stages, as well as worked as a right-of-way agent in the acquisition and facilitation of right-of-way necessary for the completion of a project. He has extensive experience working with the Illinois Department of Transportation and the Illinois State Toll Highway Authority gaining a thorough understanding of the policies and procedures of those agencies in meeting their right-of-way requirements. Javier has his B.S. in Accounting and a Juris Doctorate from DePaul University.

Jonathan Abplanalp – Vice President and Negotiator

Jonathan graduated from the University of Illinois with a B.S. in Architectural Studies. He has been with Santacruz since 2011 and has experience in all aspects of the land acquisition process. He is approved by IDOT – District 1 as a fee negotiator.

Santacruz Land Acquisitions

Dylan Santacruz – Negotiator

Dylan graduated cum laude from Miami University in Oxford, OH where he obtained a B.S. in Business Analytics. He joined Santacruz in 2021. He is approved by IDOT – District 1 as a fee negotiator.

Agafya Gerovoy – Real Estate Paralegal

Agafya has been with Santacruz since 2017 and is realtor with extensive experience real estate and right-of-way transactions.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	V3 Companies	Lake	22-00116-09-WR

EXHIBIT E
Disclosure Statements, Certificate of Insurance

SEE ATTACHED.

Vendor Disclosure Statement
Vendor Certification Form
Certificate of Insurance