



**DRAFT**

**Local Public Agency  
Engineering Services Agreement**

Using Federal Funds?  Yes  No

Using State Funds (Non-MFT)?  Yes  No

Agreement For  
**ST**

Agreement Type  
**Original**

**LOCAL PUBLIC AGENCY**

Local Public Agency		County	Section Number	Job Number
Lake		Lake	25-00080-67-CH	
Project Number	Contact Name	Phone Number	Email	
	Angel Montero	(847) 377-7540	amontero2@lakecountyil.gov	

**SECTION PROVISIONS**

Local Street/Road Name	Key Route	Length	Structure Number	
Rollins Road	CH A20	0.58	N/A	
Location Termini				Add Location
Helendale Rd to Sunnyside Ave				Remove Location

**SECTION PROVISIONS**

Local Street/Road Name	Key Route	Length	Structure Number	
Wilson Road	CH V58	0.39	N/A	
Location Termini				Add Location
Myrtle Ln to Maple Ave				Remove Location

Project Description  
Intersection improvements at Rollins Road (CH A20) and Wilson Road (CH V58).

Engineering Funding  MFT/TBP  State  Other **Local**

Anticipated Construction Funding  Federal  MFT/TBP  State  Other **Local**

**AGREEMENT FOR**

Phase I - Preliminary Engineering  Phase II - Design Engineering

**CONSULTANT**

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email	
Stanley Consultants, Inc.	Tyler Grau, PE	(773) 444-5954	grautyler@stanleygroup.com	
Address	City	State	Zip Code	
8501 West Higgins Road, Suite 730	Chicago	IL	60631	

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:

**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: Qualification Based Selection (QBS) Checklist
- EXHIBIT D: Cost Estimate of Consultant Services (BLR 05513 or BLR 05514 )
- EXHIBIT \_\_\_ : Direct Costs Summary Sheet
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**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:      Fixed

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 origin 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. By execution of this AGREEMENT the LPA and ENGINEER certify compliance with the Drug Free Workplace (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 and LPA 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
Stanley Consultants, Inc.	42-1320758	\$959,617.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Baxter & Woodman, Inc.	36-2845242	\$297,903.00
DB Sterlin Consultants, Inc.	36-4149498	\$140,088.00
Wang Engineering, A Terracon Company	42-1249917	\$207,713.00
American Surveying & Engineering, Ltd.	36-3307274	\$168,548.00
Subconsultant Total		\$814,252.00
Prime Consultant Total		\$959,617.00
Total for all work		\$1,773,869.00

**AGREEMENT SIGNATURES**

Executed by the LPA:

Attest: The 

Local Public Agency Type County
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 of 

Local Public Agency Lake
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By (Signature & Date)  

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By (Signature & Date)  

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Local Public Agency  

Lake
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 Local Public Agency Type  

County
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 Clerk

Title  

--

(SEAL)

Executed by the ENGINEER:

Attest: 

Prime Consultant (Firm) Name Stanley Consultants, Inc.
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By (Signature & Date)  

<i>John Lazzara</i> 12/23/2025
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By (Signature & Date)  

<i>Jean Kennedy</i> 12/23/2025
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Title  

Transportation Market Leader, VP
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Title  

Administrative Asst., Sr.
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For information about IDOTs collection and use of confidential information review the department's [Identity Protection Policy](#).

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Stanley Consultants, Inc.	Lake	25-00080-67-CH

**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

## **Project Understanding**

Stanley Consultants, Inc. (CONSULTANT) will perform Preliminary Engineering (Phase I Study) on behalf of the Lake County Division of Transportation (LCDOT or County) for an intersection improvement at Rollins Road (CH A20) and Wilson Road (CH V58). Proposed improvements include pavement resurfacing / reconstruction / patching, safety and operational improvements, enhancements to the existing pedestrian / bicycle accommodations, intersection modernization and ADA curb ramp improvements for projected traffic in 2050. Also, to further enhance the existing pedestrian/bicycle accommodations, the Chain O' Lakes Bike Path will be evaluated for rehabilitation and improvements throughout the project limits. The project will also include a feasibility study for non-motorized travel accommodation on Wilson Road from IL 59 (Grand Ave) to IL 134 (Big Hollow Rd).

Phase I Engineering will be completed based on IDOT Bureau of Local Roads and Streets (IDOT-BLRS) policies for the minor arterial functional classification roadway, with local funds being used for engineering and construction. This intersection is located just east of the Village of Fox Lake and is a busy intersection with respect to local vehicle and pedestrian/bicycle traffic, and notably many school buses throughout the day. Pace Bus Route 570 also traverses the intersection along the east and west and legs, with bus stops on either side of the intersection. Coordination with Pace is anticipated to discuss bus stop locations as they relate to potential alternatives. The intersection is flanked by residential single-family homes in three of the four quadrants and forested open space owned by LCDOT in the southeast quadrant. The Chain O' Lakes Bike Path crosses the intersection on the south approach.

There are known Lake County Public Works facilities within the project limits. The location of these facilities will be a factor in the development of roadway/intersection design alternatives.

Existing drainage conditions of note:

1. 2014 Project #12-00080-58-DR included curb and gutter and inlets on the south side of Rollins Road, west of Wilson Road to address flooding issues at driveways and garages south of Rollins Road.
2. Southwest corner of Rollins Road and Oakwood Avenue has water quality improvements (#16-00080-62-DR) to address flooding and erosion issues in this area.
3. Culvert #767 (24"x36" RCP) west of Oakwood Avenue under Rollins Road has joint separation issues that need to be looked at as part of this project.
4. Culvert #766 (24" RCP) was installed in 1944 and is located 890', west of the Rollins Road and Wilson Road intersection. The pipe is to be inspected and replaced as part of this project due to age.
5. Most of the east leg and the intersection drain to LCDOT's storm sewer system and makes its way south to retention basins on the LCDOT owned parcel at the southeast corner of the intersection. These retention basins consist of two wetland bottom basins that are owned and maintained by LCDOT and discharge to Long Lake. They were constructed as Section #89-00080-19-FP.

6. The west leg of the intersection drains into storm sewer and leaves LCDOT ROW in a 30" pipe down Watson Avenue that discharges into Manitou Creek.
7. Manitou Creek flows from east (from Long Lake) to west just south of the intersection. It has a Zone AE floodplain with a floodway delineated as defined on FEMA FIRM 17097C0019K. It does not appear that the proposed improvements will impact the Manitou Creek floodplain unless intersection improvement extend south on Wilson Road to the crossing of Manitou Creek with Wilson Road.
8. There is a small pocket of wetlands in the ditch near Oakwood Avenue and Rollins Road as shown on the Lake County Wetland Inventory. This may be impacted by any work done at culvert #767. Additional wetlands are identified as associated with Manitou Creek, Long Lake and the wetland bottom basins.
9. Manitou Creek passes under Wilson Road approximately 1,000 feet south of the intersection. The proposed alternative should limit or eliminate the need for any widening at this bridge.

The project will be designed using Microstation OpenRoads following Lake County DOT CAD standards and Plan Preparation Guidelines will be followed.

Based on this understanding of the overall project key issues and objectives, the following scope of services are proposed to complete preliminary engineering are noted starting on Page 3.

## **Scope of Services**

### 1. Data Collection and Evaluation

The CONSULTANT will collect and evaluate all necessary data for completion of preliminary engineering. This data will include at least the following base information:

- A. Collect and compile all GIS information and maintain a project database for use throughout the entire project.
- B. Prepare aerial mosaics of the project limits to be used for exhibits and presentations.
- C. Record Plans:
  - 1. Record roadway plans, permit, and development plans.
  - 2. Traffic signal plans and signal timing information.
  - 3. Available traffic data and pavement condition.
  - 4. Available survey data and control data for tying to the Lake County mapping.
  - 5. Available County mapping data, including contour mapping and environmental resources.
  - 6. Existing and proposed land use and zoning maps.
  - 7. Public and private utility plans and atlases.
  - 8. USGS maps and Flood Insurance Rate Maps.
  - 9. Public Service routes including Bus and Emergency Services.
  - 10. Available flooding records and drainage complaints as available.
  - 11. Emergency response routes.
- D. Field Visits for project data collection and inspection. (Three site visits)
- E. Provide drone flight by a licensed Drone Pilot over the Project Site to provide high resolution video and imagery. Separate flights for a corridor fly-through and peak-hour observations are included. All Federal Aviation Administration (FAA) requirements will be reviewed and met before the flight.
- F. Collect street view imagery within the project limits and upload it to Google Earth. Street view imagery can also be utilized for virtual content if applicable. For budgeting purposes, it is assumed street view imagery will be collected two times during the contract duration.

## 2. Topographic Survey

### A. Topographic Survey:

All topography will be in compliance with the LCDOT's Design Survey Procedures (Revised 02/22/2021).

1. Establish Horizontal Control in State Plane Coordinates - East Zone (NAD83 2011 adj) utilizing the Trimble VRS network. Control Points will be established and cross-tied at approximately 1,000 feet intervals and on intersecting sideroad legs and shall consist of 5/8" rebar. Work under this task assumes 12 control points to be established.

The original horizontal alignment as shown on the recorded R.O.W. plats will be re-established, when possible. LCDOT's Land Surveyor will provide R.O.W. plats and field notes before establishing the horizontal alignment and stationing.

Establish Vertical Control from the GPS observations, normalized between the control points and additional benchmarks set at approximately 1,000-foot intervals utilizing electronic leveling. The North American Vertical Datum of 1988 (NAVD 88) shall be used for vertical control.

2. Perform topographic survey utilizing conventional survey methods within the limits noted below including cross sections at 50-foot intervals including driveways, cross culverts, cross streets, and major utility crossings. Cross section width shall be taken 10' feet outside the estimated proposed right-of-way and utility corridor.

Perform LiDAR survey outside this topographic survey for use in the feasibility study for non-motorized traffic (NMT) improvements along Wilson Road. The Consultant will use vehicle mounted LIDAR to collect expanded survey coverage to aid with assessment of NMT feasibility. This method is anticipated in primarily rural sections of the roadways and delivers a +/- 3-5cm vertical tolerance.

#### Survey Limits:

- Topographic Survey Limits
  - Rollins Road from Helendale Road to Sunnyside Avenue (through radius returns of side streets)
  - Wilson Road from the bridge over Manitou Creek to Maple Avenue (through radius returns of side streets)
  - Total survey limits are 5,100 ft (0.96 mi)
- LIDAR Survey Limits
  - Wilson Road from IL Route 134 to IL Route 59
  - Total survey limits are 9,300 ft (1.8 mi)

3. Outside the topographic survey, County contours will be utilized for approximating drainage areas, compensatory storage, detention, borrow excavation, and mass grading design elevations. Supplemental Survey (below) will be provided upon identifying these off-site locations.
4. *Drainage Structures*: Collect drainage structure condition, inverts, size, and flow direction for the entire survey limits.
5. *Sanitary Sewer Structures*: Collect Lake County Public Works structure condition, inverts, size, and flow direction for the entire survey limits.
6. *Terrain Model*: Download and develop existing digital terrain model for use in design and plan preparation.

Assumptions:

- The detention pond area, related pipe system, and control structure located in the southeastern quadrant will be included in the topo survey, where accessible. County contours will supplement the topo survey for areas that aren't accessible.
- A tree survey has been included as a separate deliverable, and tree locations and information will be collected under that deliverable.

B. Supplemental Survey:

As approved by the LCDOT, provide additional topographic survey for areas identified by the CONSULTANT for items such as additional intersection limits, wetland delineation, compensatory storage, detention or infiltration facilities, borrow excavation, and mass grading adjacent to the project site. These areas may include surveys within previously identified compensatory storage concepts, planned detention facilities, remnant parcels, and proposed stormwater facilities for accurate calculations during design.

C. Right of Way and Boundary:

1. *Existing Plat of Highways*: Conduct research at the County Recorder to obtain recorded documents for determining the limits of existing right of way and easements. Perform legal surveys and develop plats to identify known right-of-way, common law dedications, and existing easements. Prepare a summary of all parcels with ownership, common law dedications, and existing easements identified for each.
2. *Encroachment Report*: Conduct a field survey, identify, and compile a list of right-of-way encroachments along the project corridor, including type, location, encroachment distance, photos as necessary, and recommended actions, if any.

### 3. Subsurface Utility Engineering

There are pipelines that run through the project corridor. Subsurface utility engineering will be necessary to provide a roadway design aims at avoiding conflicts and meets the design requirements of the utility owners/operators.

The CONSULTANT will complete utility research and coordination, and Subsurface Utility Engineering (SUE Level B/A, as necessary). Utility coordination includes sending plans, information requests, and reviewing materials received from utility companies.

See attached scope of services from American Surveying & Engineering, Ltd.

### 4. Traffic Studies

#### A. Data Collection

The CONSULTANT will obtain and process 72-hour turning movement counts at the following locations:

- Rollins Rd at Wilson Rd
- Rollins Rd at N Oakwood Ave / Old Rollins Rd
- Rollins Rd at N Helendale Rd
- Rollins Rd at N Hunt Ave
- Rollins Rd at N Watson Ave / W Travis Ln
- Wilson Rd at Maple Ave
- Wilson Rd at W Highpoint Rd
- Wilson Rd at Oak Lane Rd
- Wilson Rd at Swanny's
- Wilson Rd at Ingleside Ave
- Wilson Rd at Lakeview Ave
- Wilson Rd at Larkin Ln
- Wilson Rd at IL 134 (Big Hollow Rd)
- Wilson Rd at IL 59 (Grand Ave)

Traffic counts will be collected during a summer weekend for recreational purposes at the following locations for 48 hours:

- Rollins Rd at Wilson Rd
- Wilson Rd at Swanny's

For minor side street locations, the CONSULTANT will process 24-hour counts and coordinate with LCDOT to determine if additional counts are necessary or could be reallocated for additional weekend or special event turning movement counts.

## B. Crash Analysis Memorandum

This task will include performing a crash analysis of the study limits with the findings summarized in a technical memorandum. The CONSULTANT will obtain the most recent 5 years of available data crash and safety tier information from the LCDOT crash software and IDOT Safety Portal. The existing crash data will be tabulated with a technical memorandum summarizing the crash history, identifying crash patterns, and providing recommended safety countermeasures for all road users including motorized and non-motorized. One crash update is included.

A crash prediction analysis will be performed with Highway Safety Manual (HSM) methodology utilizing FHWA – Interactive Highway Safety Design model (IHSDM) software to evaluate/predict the crash frequency for 2050 No-Build and the build alternatives at the intersection of Rollins Road and Wilson Road. This analysis will be utilized in the alternatives comparison evaluation.

### Deliverables:

- Draft Crash Analysis Technical Memorandum
- Final Crash Analysis Technical Memorandum
- One update to the Final Crash Analysis Technical Memorandum with updated data

## C. Non-Motorized Travel Feasibility Study

The CONSULTANT will analyze potential non-motorized travel accommodation on Wilson Road from IL 59 (Grand Ave) to IL 134 (Big Hollow Rd).

The CONSULTANT will use LiDAR survey for use in developing typical sections that will include up to four concepts for evaluation in the feasibility study. The concepts examined will include but are not limited to on-street bicycle accommodation and off-street shared-use path. The CONSULTANT will identify project constraints for each alternative and prepare feasibility level cost estimates for implementation. The CONSULTANT will identify anticipated right-of-way, retaining walls, railroad, and other utility impacts to be accounted for in the assessment of which alternatives should be considered as part of a separate project. Pedestrian and pedalcyclist crash history will be summarized in the feasibility study and incorporated into the evaluation matrix. The findings from the feasibility study will be incorporated into the intersection project limits for compatibility of non-motorized travel accommodations.

### Meetings:

- One meeting with Metra / ICC to verify at-grade crossing requirements.
- One LCDOT review meeting to discuss comments.

### Deliverables:

- Draft Feasibility Study
- Final Feasibility Study

D. Traffic Analysis – This task will include the following items:

1. CMAP Coordination and Traffic Volume Projection – This task will include coordinating with CMAP for 2050 average daily traffic (ADT) values. Coordination with CMAP will also ensure consideration of effects from nearby projects recently completed and future planned projects. The CONSULTANT will then calculate the growth factor and develop design hourly volumes based on the projected ADT.
2. Capacity Analysis – This task will include preparing Synchro base files for modeling and performing AM, Mid-day, and PM peak hour capacity analysis for the existing conditions, 2050 no-build, and proposed traffic signal improvements at the Rollins Rd at Wilson Rd intersection. Roundabout peak hour capacity analysis will be performed using SIDRA for the Rollins Rd at Wilson Rd intersection per IDOT requirements. Results reported will include the delay by movement and intersection, level of service (LOS), and 95<sup>th</sup> percentile queue length.
3. Intersection Control Evaluation (ICE) – This task will evaluate the effectiveness and safety of various traffic control measures at the Rollins Road at Wilson Road intersection. It involves collecting and analyzing data on traffic flow, crash history, and other relevant factors, then using this information to recommend appropriate intersection control strategies, such as traffic signals, stop signs, roundabouts, or other measures. The goal of ICE is to improve traffic efficiency, minimize delays, and enhance safety for all road users.
4. Traffic Analysis Technical Memorandum – This task will include preparing the technical memorandum summarizing existing and future traffic operation study conditions. The methodology and analysis for the Intersection Control Evaluation will also be documented in this technical memorandum with detailed recommendations on future operation of the intersection of Rollins Road and Wilson Road.

E. Intersection Design Study

The CONSULTANT will prepare one Intersection Design Study (IDS) at a scale of 1" = 50' for the intersection of Rollins Road at Wilson Road for the preferred alternative. The IDS will include the results of existing and 2050 Build traffic analysis, the proposed intersection geometry, the proposed traffic signal or roundabout layout, and the associated design criteria/design exceptions/general notes. For a roundabout IDS, the fastest path exhibit and sight line exhibit will also be included in this task. The preliminary IDS documents will be submitted to the County for review and revised based on any review comments received.

## 5. Environmental Studies

- A. Environmental Survey – Prepare the Environmental Survey Request Form and related exhibits. Submit to IDOT to determine potential environmental impacts. Biological and Historical surveys will be performed by the State. There are no culverts or bridges within the project limits that require a bridge/bat assessment. Wetland delineation and tree survey will be performed by Baxter & Woodman as described below. An archeological survey and a special waste investigation will be performed by Terracon as described below.
- B. Wetland Delineation – Perform wetland delineation in the project corridor during the growing season, including documentation of baseline vegetation, hydrology, and soils information. Prepare a Wetland Delineation Report and Exhibits that summarize the methodology used, site description, and results of survey.
- C. Wetland Mitigation – This task will include an alternatives analysis to determine if there are any feasible alternatives to minimize impacts to wetlands. Potential alternatives include on-site wetland mitigation, wetland mitigation bank, and a combination thereof. Assist the LCDOT with mitigating wetlands using wetland banking. Facilitate the purchase of wetland banking credits in a mitigation bank within the basin of the project. Payments for banking fees are not included in the scope of this work. The Big Sag Bank (Fox River Watershed) may have available wetland credits for the project.
- D. Traffic Noise Analysis – This task includes the following items:
  - Determine existing traffic noise levels.
  - Predict future traffic noise levels (No-Action and Build)
  - Identify the possible traffic noise impacts.
  - Consider and evaluate abatement measures to mitigate highway traffic noise impacts.
  - Evaluate potential construction traffic noise impacts, if necessary
  - Propose implementation of feasible and reasonable abatement measures.
  - Document the traffic noise evaluation process.
  - Communicate the results to the public and local officials
- E. Tree Survey – Conduct a survey of trees exceeding 3" diameter within the area of impact that includes size, species, and condition. The tree survey will extend 20 feet outside of the proposed right-of-way where practical. Record tree locations using handheld GSP equipment, and merge data into the topographic survey. Provide a summary of findings and anticipated replacement values.

F. Special Waste Screening and PESA

Special Waste Screening – Conduct Special Waste Screening as outlined in Section 20-12.03(b) of the IDOT Bureau of Local Roads and Streets Manual. Screening will include Environmental Regulatory Records Review and a site visit. Based on Environmental Screening results and site visit determine if further action is required and prepare a summary of the findings.

The Preliminary Environmental Site Assessment (PESA) services will include a Site Assessment, Historical Records Review, Environmental Regulatory Records Review, and the Preparation of a final report concluding if recognized environmental conditions were identified using the processes described in A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Infrastructure Projects, Second edition, January 2012. Currently, a Preliminary Site Investigation (PSI) is not proposed in this scope of work.

G. Phase I Archaeological Survey

To assess the area where proposed disturbance and subsequent improvements will take place, a Phase I Archaeological Survey will be performed on an approximately two-acre area to the east-southeast of the intersection of Rollins and Wilson Road. The survey is intended to meet current survey standards listed in the Illinois Historic Preservation Agency (IHPA) Guidelines for Archaeological Reconnaissance Surveys and Reports. The survey will consist of systematic shovel testing at 10–15-meter intervals depending on topographic landforms, prior disturbances, and proximity to known cultural resources. Shovel tests will measure approximately 40 cm x 40 cm, excavated by hand in arbitrary 10 cm levels, extend to the first of sediments that are believed to pre-date the presence of human cultures in the area or 80 cm, and will have excavated sediments passed through ¼-inch hardware mesh. Shovel testing will be required as the main methodology as the parcel in question is currently wooded and will not meet the 40 percent ground surface visibility requirements set by the Illinois State Historic Preservation Office (SHPO) for pedestrian survey. Approximately forty shovel tests are anticipated. Note that no shovel testing will be done in the existing burial mound within site 11L324.

Field efforts will be recorded in field notebooks and by use of standardized shovel testing forms. Shovel test locations and site locations will be recorded with a hand-held global positioning system (GPS) device with an accuracy approximately 10 feet or less.

Archaeological resources will be delineated within project area boundaries so that their horizontal extent is known, and so that their vertical extent is approximated to a degree feasible. Archeological resources encountered will be recorded with the state data repository and be assessed, if possible, for eligibility for inclusion in the National Register of Historic Places (NRHP).

Throughout the fieldwork process and subsequent reporting, the CONSULTANT will coordinate between SHPO, the Illinois Department of Transportation (IDOT) Cultural Resources Unit, the Illinois Department of Natural Resources (DNR), and other entities, as necessary. Two virtual meetings with each entity are anticipated for this project.

### Optional Geophysical Investigation

As an alternative means to identify potential cultural deposits, a geophysical survey of approximately two acres within the project area using a fluxgate magnetic gradiometer will be performed. A geophysical survey grid will be established in a GIS prior to field survey which consists of roughly 30 by 30 m survey grids. A real-time kinematic global navigation satellite system (RTK GNSS system) with an accuracy of approximately 2 cm will establish the geophysical survey grid in the field. The magnetic survey will consist of a handheld dual channel, or similar, magnetic gradiometer using transects spaced 50 cm apart and a sampling interval of 10 Hz. The field data will be recorded and returned to the office for processing, analysis, and reporting. Processed geophysical data will be provided in the form of processed magnetic data, an interpretive map with cultural anomaly locations and classification (Rank 1 – Rank 3), which will be accompanied by an anomaly table which includes comments and anomaly centroid positions in the WGS84 UTM Zone 16 North.

Anomalies identified through the magnetic survey will be probed, excluding those anomalies identified within the footprint of the burial mound associated with site 11L324. Proposed probing includes 100% of Rank 1 anomalies, 50% of Rank 2 anomalies, and 25% of Rank 3 anomalies. Each anomaly that is investigated will be sampled up to 5 times (north, south, east, west, and centroid) and results will be provided in the form of a table. Viable carbon fragments identified in the anomaly cores will be collected in the field for later radiocarbon analysis.

It is assumed that the proposed survey area will be cleared of brush, debris, and small vegetation prior to geophysical survey. It should be noted that geophysical testing processes rely on instrument signals to indicate physical conditions in the field. Signal information can be affected by on-site conditions beyond the control of the operator, such as (but not limited to) ground surface cover, soil types, soil moisture, and/or groundwater depth, and radio frequency interference. Interpretation of those signals is based on a combination of known factors combined with the experience of the operator and geophysical scientist evaluating the results. The geophysical results provide a level of confidence but should not be considered absolute.

## 6. Drainage Studies

This task includes preparing the drainage aspects for the Preliminary Engineering (Phase I). Preliminary Engineering completion will include the development of an Existing Drainage Plan (EDP) and the development of a Phase I level Proposed Drainage Plan (PDP). Any detention considerations will be evaluated in Phase I. The project will follow the Lake County Stormwater Management Ordinance and the IDOT Drainage Manual. As part of the Phase I study, an IDOT-style Location Drainage Technical Memorandum (LDTM) will be prepared to summarize the Phase I findings. There is a regulatory floodplain and floodway associated with Manitou Creek at the southern and western project limits. It is assumed that there will be no impacts to the crossing or the floodplain/floodway.

Phase I Engineering Drainage Deliverables will include the preparation of an EDP, PDP, and LDTMs. These documents will be suitable for seamless project development into Phase II. Specific Drainage subtasks include the following:

### A. Existing Drainage Plan (EDP)

Development of the EDP includes evaluation of existing drainage conditions through a review of field survey, record roadway and site development plans, soil and topographic maps, FEMA studies, drainage reports, flooding records and complaints, wetland mapping, drain tile studies, and field reconnaissance. EDP tasks include the following:

1. Identify on-site and off-site tributary drainage areas, existing drainage systems, features, and outfalls, and plot on project base mapping.
2. Capacity analysis of Culvert #766 for design storm.
3. Investigate corrective measures for Culvert #767, no hydraulic analysis is anticipated.
4. Evaluate outfall sensitivity and suitability for continued use.
5. Coordinate with Lake County regarding drainage patterns and concerns about drainage modifications or connections.

Existing culverts outside of the project limits that will not see an increase in peak flow as a result of the project will not be analyzed other than those noted above.

### B. Concept Proposed Drainage Plan (PDP)

Prepare conceptual proposed drainage layouts for each of the proposed intersection alternatives. Layouts will primarily consist of horizontal design but may include some strategic pipe invert / profile evaluations in key locations.

### C. Proposed Drainage Plan (PDP)

Development of the PDP includes evaluating proposed drainage conditions for the Preferred Alternative based on Bulletin 75, IDOT Drainage manual, IDOT Local Roads, and Lake County design criteria. Inlet spacing will be calculated during Phase II. The proposed storm sewer system is anticipated to have inlets at proposed low points along the project

limits and at other strategic places to control spread. Capacity calculations will be completed, along with any existing storm sewer systems that are modified or impacted by the proposed improvements. PDP tasks include the following:

1. Determine and obtain Lake County's concurrence on project drainage design criteria. Lay out proposed roadway drainage system alternatives in plan and profile.
2. Coordinate with Lake County on the preferred approach for resolving any drainage issues and providing required detention and water quality Best Management Practices (BMPs) in accordance with County requirements.
3. Prepare preliminary analysis and design for the preferred drainage system alternative.
4. Ditches within the project limits will be analyzed for capacity and erosive velocities.
5. Calculations will be performed to determine the change in peak flow rates and water quality volume.
6. Design a drainage system in a way that minimizes the impact to the existing utilities.
7. Evaluate the need for additional rights-of-way and easements for drainage purposes.
8. Evaluate the need for any detention requirements within the County ROW.
9. Evaluate prior hillside armoring project by LCDOT to determine if there are other drainage improvements that could be considered, such as piping the runoff directly down to the lake so it doesn't surface drain down the hill.
10. Finalize the PDP based on stakeholder coordination.

D. Location Drainage Technical Memorandum (LDTM)

1. Prepare a Location Drainage Technical Memorandum (LDTM) in IDOT format to document existing and proposed drainage conditions. Stormwater quality features will be identified in the LDTM.
2. Draft for LCDOT and LCSMC review and comment. Document will be compiled into a single PDF for submittal.
3. Finalize based on comments received, with disposition of comments, for LCDOT and LCSMC review and approval.

It is assumed that one round of comments from LCDOT on the proposed design layout and LDTM will result in changes to the stormwater calculations, drainage calculations, LDTM and associated components. Additional rounds of technical reviews with comments related to drainage or stormwater that require revisions are not included in Phase I. A draft of the LCSMC permit will be completed in advance of the pre-application meeting. Full permitting will be completed in Phase II.

## 7. Structural Studies

- A. Retaining Wall Type Study – The proposed improvements may require a potential retaining wall at the Rollins Road and Wilson Road intersection depending on the intersection control (i.e., RAB) or along a potential non-motorized travel accommodation on Wilson Road on either side of Rollins Road. The CONSULTANT has assumed three retaining walls up to 500 ft long, with an exposed height less than 7 ft (no Type, Size and Location plans required). The CONSULTANT will investigate potential wall types. Likely wall types include precast modular block walls (e.g. Redi-Rock) for shallow foundation walls, and if poor soils are present, soldier pile retaining walls for deep foundation walls. This task will include a review of the project geotechnical report to determine the most suitable alternatives. A report will be prepared that discusses the pros and cons of each wall type. The report will include concept plan and elevation exhibits, typical section exhibits and concept level cost estimates. The CONSULTANT will assist LCDOT in selecting the best wall type for this project.
- B. Roadside Safety Study – The existing retaining wall railing in combination with the guardrail east of N Oakwood Ave does not meet current roadside safety requirements. This wall supports the Chain O'Lakes Bike Path, which is separated from Rollins Road by a guardrail. The existing roadside protection arrangement between the path and roadway appears to not meet current standards for rail termination. However, the solution to bring this roadside protection into compliance will require study as nearby intersections also need to be safely accessed. Once these roadside safety improvements are determined, adjustments in required embankment retention will be known and alternative retaining wall improvements evaluated. The CONSULTANT will provide concept alternatives that will meet current safety requirements. A report will be prepared that discusses the pros and cons of each treatment type. The report will include concept plan and elevation exhibits, typical section exhibits, 3D renderings, and concept level cost estimates. The CONSULTANT will assist LCDOT in selecting the best roadside safety treatment for this project.
- C. Geotechnical Studies – The CONSULTANT will complete a geotechnical investigation and analysis for the proposed pavement reconstruction and three (3) potential retaining walls (up to 500-foot length each). The bridge over the Manitou Creek and existing culverts will not be affected by the reconstruction. Additional structure, roadway, and peat sounding borings might be necessary to be completed during the final design in Phase II.
  1. Geotechnical Drilling Services – The CONSULTANT will provide equipment, labor, and associated materials to drill, test, and collect soil samples in 21 boreholes to depths ranging from 10 to 40 feet below the ground surface (bgs) for a total of 570 feet of drilling and sampling. We will collect soil samples with split-spoon samplers according to AASHTO T 206, "Penetration Test and Split-Barrel Sampling of Soils". Soil samples in the roadway borings will be sampled at continuous intervals. The soil samples in the structure borings will be sampled at 2.5-foot intervals to the boring termination depth of 40 feet. After drilling, groundwater levels will be measured in boreholes. Because of the site location, for safety reasons, boreholes will be backfilled with soil cuttings and bentonite chips or grouted.

2. Field Supervision – Before starting the investigation, the CONSULTANT will mark the boring locations in the field and will clear the existing utilities through the JULIE one-call system and conduct an on-site private utility locate (PUL). The CONSULTANT will check utility clearance prior to mobilizing the rig on site. A field geologist will monitor drilling activities, maintain daily field notes and boring logs, as well as receive, classify, and prepare soil samples, rock cores, and deck cores for laboratory testing. The field geologist will perform pocket penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples and observe the groundwater level in boreholes during and after completion of drilling. The CONSULTANT will survey as-drilled boring locations and elevations with a mapping-grade GPS having an accuracy of +/- 5.0 feet. Any remaining soil cuttings will be spread evenly off pavement in the vicinity of boreholes.
3. Geotechnical Laboratory Testing – After the completion of the drilling, the soil samples will be transported to the CONSULTANT's laboratory in Lombard for testing. The soil testing program will include natural moisture content on all soil samples. Selected soil samples from representative soil units will be tested for Atterberg limits, grain size distribution, and organic contents.
  - Geotechnical Engineering and Recommendations
  - The following reports will be prepared by Wang:
  - Geotechnical Report – Walls
  - Roadway Geotechnical Letter Report- Intersection Improvements

The geotechnical reports will include a detailed description of soil and groundwater conditions encountered, field and laboratory testing procedures and results, and preliminary recommendations for the design and construction of the proposed improvements. The reports will also include a site location map, boring location plan, boring logs, and soil profiles.

See attached scope from Wang Engineering, A Terracon Company.

## 8. Alternatives Analysis and Concept Design

The focus of the alternatives analysis will be to determine the proposed lane configuration and widths at intersections within the study limits; including, turn lanes just west and east of the Rollins Road & Wilson Road intersection. The alternatives analysis will also focus on safety improvements for potential refuge islands at mid-block crossing locations.

This task includes a two-stepped process with first determining the initial concept lane configuration and profile, and then preparation of preliminary plans for the preferred alternative. The work associated with each step includes the following:

- A. Design Criteria Memorandum – A design criteria memo will be prepared that will guide the roadway design.
- B. Purpose & Need Memorandum – Following the completion of the various data collection, crash analysis, traffic analysis and other design studies, a brief purpose and need memo will be prepared that will be used for the first Public Information Meeting and identifying the range of initial alternatives.
- C. Alternatives Analysis and Memorandum – Concept level geometry will be developed for comparative analysis and evaluation of alternatives. The concept geometry will be developed and evaluated based on the environmental resource data collected by the CONSULTANT and/or as provided by IDOT through the environmental survey process, based on the traffic and crash analysis performed, and based on initial stakeholder input.

Each concept alternative will be developed in plan-view with concept level profiles and critical cross sections to determine probable right-of-way needs for comparative evaluation. For purposes of this scope, it is assumed that two distinct initial alternatives will be developed for relative comparison for the intersection (signalized intersection and roundabout).

It is anticipated that there will be sub-alternatives for each based on the above-mentioned considerations. A third alternative is included if another alternative arises out of the project development and stakeholder coordination processes. Impact evaluation will be prepared for the range of alternatives that considers environmental/socio economic impacts, right-of-way impacts, transportation performance, safety performance, and utility impacts.

An alternatives memorandum will be developed to document the various alternatives evaluated for the intersection and multi-use path extension.

- D. Preferred Alternative Identification – Based on the results of the comparative analysis of alternatives and associated stakeholder and agency coordination, the CONSULTANT will prepare decision matrices to assist with determining the preferred alternative. The preferred alternative will be the basis for development of the proposed drainage plan and for determination of right-of-way / easement requirements (if any) for the project.
- E. This task also includes all design efforts with respect to pedestrian and bicycle accommodation throughout the project limits.

9. Preliminary Engineering Plans (30% Design)

Plans to be produced for use in development of Phase II plans that would be in accordance with the LCDOT Plan Preparation Guide. The preferred alternative concept design (15%) will be advanced for further design development for LCDOT reviews and will be prepared to approximately 30% completion.

- A. The CONSULTANT will prepare preliminary plan and profile sheets showing existing and proposed horizontal and vertical geometry at a scale of 1" = 20'. The proposed geometry will be set to meet design criteria and to avoid or minimize right-of-way and easement requirements. Typical sections for the proposed improvement will be developed concurrently.
- B. A 3D corridor model will be developed for the proposed improvement. Existing and proposed cross-sections will be templated at 50-foot intervals and at all side streets, driveways and other grade controlling features to determine right-of-way and easement requirements, wetland impacts (if present), ditch locations and drainage patterns, and fine-tune the proposed vertical geometry. Existing cross-sections will be developed utilizing the topographic survey. These cross-sections will show existing right-of-way, existing grade, proposed grade (top surface only) and proposed right-of-way and easements where necessary.

During this task, it is expected that preliminary plan, profile, and cross sections will be reviewed by the County for their comments and/or concurrence. At the end of this task the project team will have completed preliminary geometry and identified the proposed project limits including the right-of-way acquisitions and easements necessary for the construction of the proposed improvement.

- C. Concept ADA curb ramps will be developed at the Rollins Rd and Wilson Rd intersection and four additional intersections TBD depending on the multi-use path location to identify any ROW needs and confirm ADA / PROWAG layout compliance. Detailed curb ramp grading will be performed during design engineering.
- D. If a roundabout is the preferred alternative at the intersection, then lighting will be required. This task includes photometric calculations, concept design, and developing a cost estimate for the work required.
- E. This task also includes preparation of a detailed project cost estimate.

#### 10. Engineering Reports

- A. Preliminary Engineering Project Report – An abbreviated Project Development Report will be prepared following BLR 22210 and other examples provided by LCDOT. This will be submitted to the County for a draft review and then for final approval.
- B. Concept Staging – Evaluate construction staging to maintain traffic and minimize disruption to the traveling public while maintaining a satisfactory work zone for the Contractor. Confirm geometry and temporary pavement design and develop exhibits to demonstrate staging for LCDOT review. Once the traffic staging concept has been approved by LCDOT, it will serve as the basis for the development of the Maintenance of Traffic and whether any detours are necessary. If the preferred alternative is a roundabout, it is assumed that a full closure and detour may be necessary to construct the intersection.
- C. Transportation Management Plan – The CONSULTANT will prepare the Transportation Management Plan (TMP), including the Traffic Control Plan and the construction method evaluation. This task includes work zone queuing analysis and developing the Traffic Operations Plan and Public Information Plan. The current version of the IDOT D1 Form OP0042 Work Zone Safety Memorandum (WZSM) will be the basis of the submittal. IDOT Detour Committee approval will be required if anticipated detour routes include US 12, IL 59 or IL 134. Hours have been included for revisions to the TMP or WZSM based on review comments by IDOT.

#### 11. Public Involvement

The CONSULTANT will lead a public involvement program that engages project stakeholders to inform them of the project and solicit their input. The following activities are planned throughout the project development process:

- A. Stakeholder Involvement Plan – Develop a Stakeholder Involvement Plan (SIP) for the study in consultation with the LCDOT to identify key stakeholders, goals and objectives, outreach activities and outreach methods.
- B. Individual Stakeholder Meetings and Coordination – Individual stakeholder meetings will be held throughout the project to discuss the project. It is anticipated that up to twenty (20) stakeholder meetings will be held. General coordination with stakeholders via email/phone is included in this task.
- C. Project Website – LCDOT will host, maintain, and update the project website. The content posted to the website by LCDOT is expected to come from previously developed materials for the public involvement activities. The CONSULTANT will coordinate with LCDOT to provide updated information through project development.

D. Digital Content – Prepare Digital Content designed for the purpose of immersive public engagement through website, social media, stakeholder meetings and public informational meetings.

- Purpose & Need Video: A multi-media creation utilizing drone footage, infographics, and professional media production to effectively convey location, purpose, need, and facts regarding the project.
- Preferred Alternative Video: A multi-media video utilizing advanced techniques including the combination of infographics, digital 3D assets, traffic simulations, and blended virtual visualizations to provide detailed depiction of the proposed improvements.
- 3D Renderings: Develop a three-dimensional model and provide rendered images of the preferred alternative to the LCDOT.

Assumptions:

- Videos and images captured from the following tasks will be utilized for virtual content:
  - Drone Captured Videos task.
  - Google Street View task.

E. Public Information Meetings – A virtual public forum will be conducted and hosted by LCDOT. The CONSULTANT will support LCDOT with preparation of materials for posting on the virtual forum webpage. The scope of this activity will include purpose and need type information, and associated exhibits to effectively communicate that information with the public, interactive comment/input map, and survey. A Virtual Public Forum (VPF) summary will be prepared along with a FAQ document and memo summarizing VPF feedback received. Individual questions not addressed by the FAQ will be responded to individually.

Two public information meetings will be held during preliminary engineering. The meeting format will be an in-person open house format. For each meeting the following tasks will be performed:

1. Compile mailing list from client provided contacts.
2. Preparation of brochures/handouts.
3. Preparation of display exhibits.
4. Preparation of pre-recorded video presentation.
5. Attendance at dry run events.
6. Secure location for public meetings.
7. Preparation of newspaper display ads and press releases.
8. Preparation of County Board letters.
9. Attendance at public information meeting.

10. Preparation of record summaries of the meetings will include at a minimum copy of all notices, presentation material, attendance lists, comments, and responses.
  11. Preparation of FAQ and post public information meeting updates for the project website.
  12. Prepare individual response letters to uncommon comments received, or requests for information received at the Public Information Meeting.
  13. ROW Exhibits (prepared under separate task) will be provided to affected property owners during the final Public Information Meeting along with a letter and comment form.
- F. Translation Services – Provide a Spanish translator to attend two (2) open house public meetings and provide written translation of the following items:
- Public meeting exhibits, advertisements, handouts, meeting summaries, and FAQ documents.
  - Public comments and responses.
  - Annotations used in Digital Content.
- G. Property Owner Exhibits – The CONSULTANT will prepare land acquisition exhibits at the end of preliminary engineering to inform all property owners of the proposed acquisition as part of this project. It is anticipated that there could be up to twenty parcels of acquisition within the project limits.

## 12. Project and Agency Coordination

This task includes all coordination to successfully complete the project. This includes the following meetings:

- A. Project Team (52 meetings, virtual)
1. Half-hour Bi-weekly project team meetings will be held throughout the project.
- B. County Status Meetings (24 meetings, virtual)
1. Monthly County Status meetings (24) will be held throughout the project.
- C. County Milestone Meetings (6 meetings, in-person)
1. Kick-off
  2. NMT Feasibility Study
  3. Alternative Identification
  4. Preferred Alternative Presentation
  5. Two Miscellaneous TBD

- D. IDOT (2 meetings, virtual)
  - 1. BLRS meeting for ESR / Environmental coordination
  - 2. Detour Committee Meeting
- E. Lake County Stormwater Management Commission (1 pre-app meeting, virtual)
- F. Lake County Forest Preserve District (1 meeting, in-person)
- G. Lake County Public Works (2 meetings, in-person)
- H. Metra / ICC (1 meeting, virtual, feasibility study)
- I. Pace (2 meetings, virtual)
- J. Grant Township (2 meetings, in-person)
- K. Village of Fox Lake (2 meetings, in-person)

13. Project Administration

Overall project management for planning, organizing, and controlling resources, procedures, and protocols to successfully deliver the project. Contract Management & Progress Reports will be submitted monthly. VantagePoint contract management software will be utilized to assist in efficiently managing and tracking the project budget.

A project schedule will be maintained throughout the project and updated on a quarterly basis. A scope creep log will be submitted with each invoice submittal.

14. Quality Assurance / Quality Control (QA/QC)

The CONSULTANT QA/QC plan emphasizes an integrated project development process, with a guiding principle to ensure cost effective and practical infrastructure management that advocates a safe, constructible and cost-effective design solution that minimizes change orders and schedule delays.

The QA/QC Manager will perform a comprehensive evaluation of the following items throughout the design process at milestone deliverables (15%, 30%, and Design Reports).

Constructability reviews will also be conducted during milestone deliverables, to confirm the staging plan is compatible with the proposed drainage and utility relocations.

The Project Manager manages the overall project quality control's process and, through the QA/QC Manager, assigns qualified senior quality reviewers for pending deliverables as required. Milestone reviews of deliverables will verify compliance with client standards and preferences.

	WORK HOURS	Stanley	Baxter & Woodman	American Surveying & Engineering	DB Sterlin	Terracon	Comments
<b>1 Data Collection and Evaluation</b>							
Data Collection Compile GIS Data and maintain database	40	40					8 hours to set up data base/collections, 4 hours to import/organize data, 12 hours for analysis, 16 hours for maintenance
Review and Analyze Data from LCDOT Record Plans, Traffic Counts, Existing R.O.W., Utility Plans, USGS and FIRM, land use and zoning, flooding records, emergency response routes, bicycle and other information from CMAP and locals, etc.	118	40	32	6	40		Review existing ROW and centerline documents 8hrs. Importing GIS information 8hrs. Collect and review documents from county recorder 16hrs.
Determine Property Identification Numbers for adjacent properties	8		8				Includes list of adjacent property owners and mailing information.
Field trips to area (includes taking photos for historic photo log) 2 trips x 8 hours/trip x 2 persons	160	48	32	16	32	32	Assume two field trips per consultant, 2 people @ 8 hours for each, include direct costs, additional field visit for Stanley structures staff.
Drone Flight	20		20				4hrs flight planning, 8 hours site work, 8hrs image processing
Streetview Imagery	16		16				2 collections at 6hrs Imagery Collection & 2 hours data processing
SUBTOTALS =	<b>362</b>	<b>128</b>	<b>108</b>	<b>22</b>	<b>72</b>	<b>32</b>	
<b>2 Survey and Alignment</b>							
<i>Topographic Survey</i>							
Establish Horizontal and Vertical Control	24		24				
Topographic Survey	80		80				
Topographic Survey Processing	42		42				
Lidar Survey	16		16				
Lidar Processing	48		48				
Structures	40		40				
Establish Approximate Right-of-Way	16		16				
<i>Supplemental Survey</i>							
<i>Right-of-Way and Boundary</i>							
Existing Plat of Highways	64		64				40 hrs document collection + 8 hrs field verification + 16 hours parcel summary
Encroachment Report	24		24				16 hrs report prep + 8 hrs field verification
Proposed Plat of Highways	0						Deferred to Phase II
SUBTOTALS =	<b>402</b>	<b>0</b>	<b>402</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>3 Subsurface Utility Engineering</b>							
Initial Coordination / Data Collection	24			24			
Utility Designation and Survey (QL D)	8			8			Coordination for vendor to complete locates
SUE QLC (Pole Inventories Only)	0						Direct Cost through ASE for field locates
SUE QLB Designating	0						Direct Cost through ASE for field locates
SUE QLA Locating	0						Direct Cost for Level A potholes (assume 10)
Final Review and SUE Report	32			32			Include plan in hand site review
Utility Coordination	61	8		53			Stanley to participate in 2 mtgs, 2 ppl x 2 hrs
SUBTOTALS =	<b>125</b>	<b>8</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>0</b>	





	WORK HOURS	Stanley	Baxter & Woodman	American Surveying & Engineering	DB Sterlin	Terracon	Comments
<b>8 Alternatives Analysis and Concept Design</b>							
Design criteria memorandum	16	12	4				Baxter independent QAQC
Purpose & Need Memorandum	20	16	4				Baxter independent QAQC
Concept Alternatives (plan view with concept level profiles)							
Three Alternatives (traffic signal, roundabout, and potential third from PIM)	248	240	8				Baxter independent QAQC 6hrs review + 2 hrs correspondence
Two sub alternatives each for traffic signal and roundabout	168	160	8				Baxter independent QAQC 6hrs review + 2 hrs correspondence
Address comments and submit revised alternatives	60	60					
Alternatives Memorandum							
Decision Matrices	40	40					
Narrative and assembly	48	48					
SUBTOTALS =	<b>600</b>	<b>576</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>9 Preliminary Engineering Plans</b>							
Preliminary geometric design- includes plan view, storage, and tapers Project length = 5,000 feet. 1" = 20' sheet = 600'. 5,000'/600' = 9 sheets. 9 Sheets x 20 WH/sheet	194	180	14				Baxter independent QAQC 12hrs review + 2 hrs correspondence
3D Model for 2 corridors (Rollins Rd and Wilson Rd) at 5,000 ft		180					
Cross-section/Modeling Studies Includes test cross-sections in critical areas and final cross-sections at every 50' plus cross streets and driveways 150 cross sections at 3 hours/ cross section	450	450					
Typical Cross-sections 8 typical cross-sections x 6 WH/section	48	48					
ROW Plot Proposed R.O.W. Line (including stations/offsets for all break points)	40	40					
Roundabout lighting photometrics, concept design, and cost estimate	120	120					
Concept Bicycle & Pedestrian Facilities Design (20 corners at 2 hrs/corner)	40	40					
Develop and update preliminary construction cost estimate	40	40					
Address comments from LCDOT	40	40					
SUBTOTALS =	<b>972</b>	<b>1138</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>10 Engineering Reports</b>							
Preliminary Engineering Project Report (BLR 22210)							
Draft submittal and final approval	212	160	12		40		Assume there will be a need to provide information for subconsultant relevant sections in the BLR 22210
Concept Staging							
Evaluate staging and detour requirements for preferred alternative	112	32			80		M2 to include hours to coordinate and evaluate drainage issues with concept staging
Prepare exhibits to demonstrate proposed traffic control plan	80	80					4 stages/exhibits, 1 detour concept
Transportation Management Plan							
Work Zone queue analysis	16	16					
Narrative and forms	32	32					
Field inspection of detour route (anticipated for roundabout alternative)	16	16					
Write text and draft exhibits for detour report	40	40					
SUBTOTALS =	<b>508</b>	<b>376</b>	<b>12</b>	<b>0</b>	<b>120</b>	<b>0</b>	

	WORK HOURS	Stanley	Baxter & Woodman	American Surveying & Engineering	DB Sterlin	Terracon	Comments
<b>11 Public Involvement</b>							
Stakeholder Involvement Plan							
Identify key stakeholders, goals and objectives, outreach activieies	46	40	6				Baxter support / coordination
Individual Stakeholder Meetings and Coordination							
Prepare and attend up to 20 stakeholder one-on-one meetings	100	80	20				Baxter support / coordination, 4 hours a stakeholder
Project Website (LCDOT hosted, information updates only)	8	8					
Digital Content							
Purpose & Need Video (english and spanish)	84	4	80				Stanley time for coordination
Preferred Alternative Video (english and spanish)	124	24	100				Stanley to provide Vissim model file for use in the video
3D Renderings	64	4	60				Stanley time for coordination
Virtual Public Forum							
Exhibits	56	40	16				Baxter support / coordination
Summary document with FAQ	16	16					
Individual Responses	40	40					
Public Information Meetings (2)							
Compile mailing list from client provided contacts	12	12					
Brochures / Handouts	48	40	8				
Display Exhibits	256	216	40				8 boards x 16 hr/board x 2 meetings
Field check and secure location	8	8					
Newspaper display ads and press release	8	8					
County Board letters	12	12					
Attendance at dry run 2 people x 4 hours	32	16	8		8		Stanley to provide 2 people, Baxter and M2 to provide 1 person - Assume 4 hours each (virtual) x 2 meetings
Attendance at public meeting/hearing 2 people x 8 hours	80	48	16		16		Stanley to provide 3 people, Baxter and M2 to provide 1 person - Assume 8 hours each x 2 meetings
Compile comments and write summary of public meeting/hearing	40	40					
Preparation of newsletter and/or draft response letters	40	40					
Property owner letters							
Preparation of property owner data sheet and exhibits for property owner letters	80	80					20 stakeholders, 4 hours per letter/exhibit
Information for Letters of Intent Includes breakdown of local cost participation items such as traffic signals, emergency vehicle pre-emption, sidewalks, shared-use paths, lighting, utilities, and landscaping	24	24					
Translation Services							
Attend two (2) open house public meetings	16		16				
Prepare translated documents of all meeting materials	24		24				
Public comments and responses	24		24				
Annotate digital content	24		24				
SUBTOTALS =	<b>1266</b>	<b>800</b>	<b>442</b>	<b>0</b>	<b>24</b>	<b>0</b>	

	WORK HOURS	Stanley	Baxter & Woodman	American Surveying & Engineering	DB Sterlin	Terracon	Comments
<b>12 Project and Agency Coordination</b>							
Project Team Meetings (52, virtual, bi-weekly)	234	104	52	26	26	26	Stanley will provide two members per meeting, assume 1 each for other consultants
LCDOT Status Meetings (24, virtual, monthly)	156	96	24	12	12	12	Stanley will provide two members per meeting, assume 1 each for other consultants to attend
County Milestone Meetings (6, in-person)	48	48					6 meetings, 2 people, 4 hours/meeting
IDOT (BLRS Environmental and Detour Committee, virtual)	16	8	4			4	Only Stanley to attend detour committee meeting, assume others attend environmental BLRS meeting
LCSMC / LCFPD / LCPW (4 meetings, virtual)	20	12		4	4		M2 to attend LCSMC meeting, ASE to attend LCPW
Metra / ICC / Pace (3 meetings, virtual)	12	12					3 meetings, 2 people, 2 hours for meeting/prep/mm
Grant Township / Fox Lake (4 meetings, virtual)	24	16	8				4 meetings, 2 people, 2 hours for meeting/prep/mm + 1 B&W Rep
SUBTOTALS =	<b>510</b>	<b>296</b>	<b>88</b>	<b>42</b>	<b>42</b>	<b>42</b>	
<b>13 Project Administration</b>							
Project Setup (schedule, contracts, files)		40					
Administration, General Coordination, Progress Reports & Invoices (Assume 24 month schedule)	288	144	72	12	36	24	Hours / month based on project activities and scope of work to determine effort over the course of the contract.
SUBTOTALS =	<b>288</b>	<b>184</b>	<b>72</b>	<b>12</b>	<b>36</b>	<b>24</b>	
<b>14 QA/QC</b>							
Review of milestone submittals	312	188	56	8	36	24	4%
SUBTOTALS =	<b>312</b>	<b>188</b>	<b>56</b>	<b>8</b>	<b>36</b>	<b>24</b>	
TOTAL =	<b>8183</b>	<b>5078</b>	<b>1504</b>	<b>201</b>	<b>976</b>	<b>644</b>	

# Scope of Work



**AMERICAN**  
SURVEYING & ENGINEERING, LTD.

## PROJECT SUMMARY

**Project Name:** Rollins Road & Wilson Road SUE QA & QLB      ASE Proposal No. 225101

**Owner:** Lake County DOT

**Date:** November 21, 2025

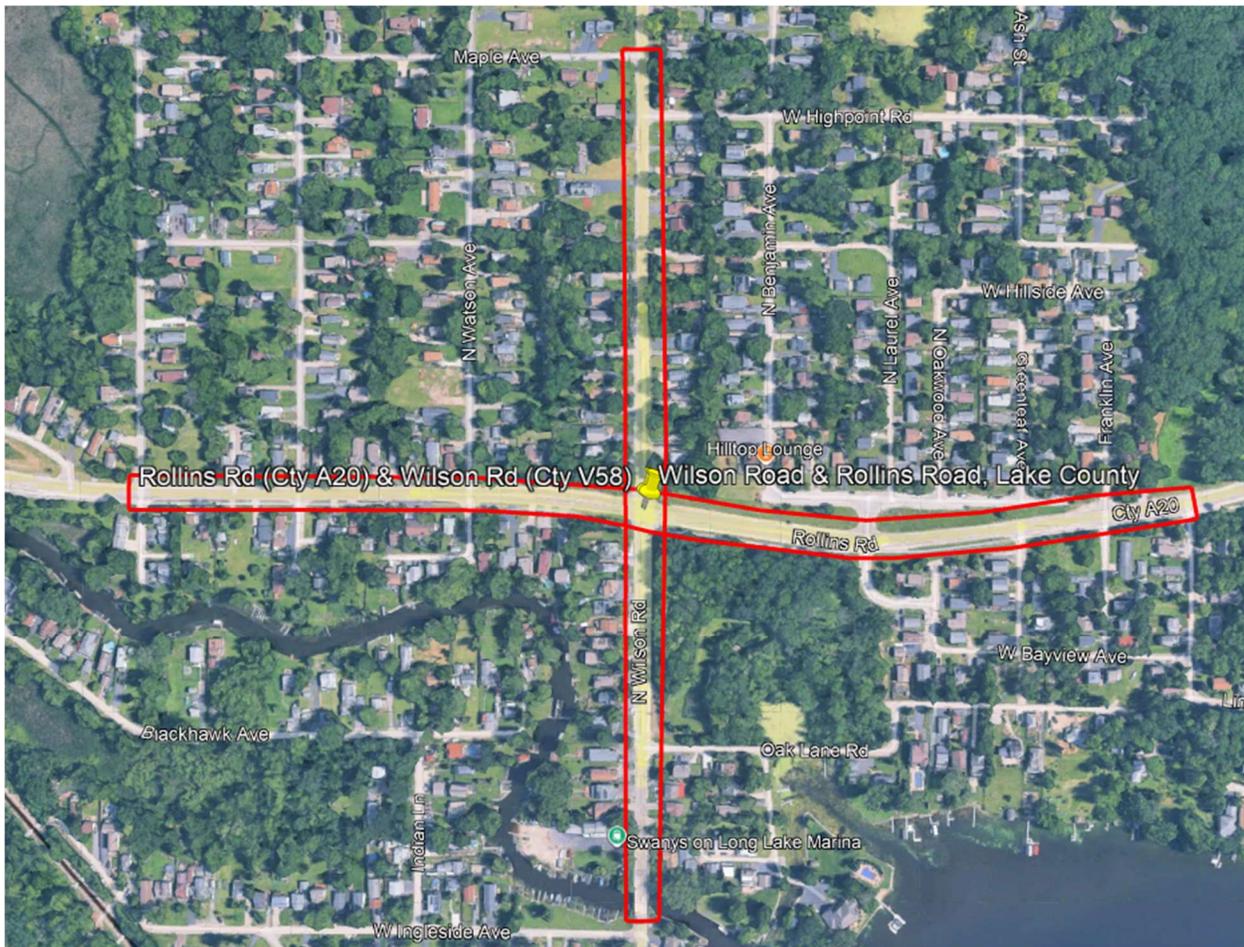
**Agent:** Stanley

**Revision Date: December 17, 2025**

**Project Description** – ASE will provide professional services to perform Subsurface Utility Engineering Quality Levels A & B for improvements at the intersection of Rollins Road and Wilson Road.

**Project Location** – Southeast of Fox Lake, Lake County, IL

**Project Limits** – The limits include the intersection of Rollins Road and N. Wilson Road, as well as approximately 2,300 feet along N. Wilson Road (1,200 feet north to Maple Avenue and 1,100 feet south to W. Ingleside Avenue) and approximately 2,850 feet along Rollins Road (1,400 feet west to N. Helendale Road and 1,450 feet east to Sunnyside Avenue). Lateral limits are the existing apparent right-of-way. The approximate limits are shown in this exhibit provided by DB Sterlin:



## GENERAL CONDITIONS AND SCOPE ASSUMPTIONS

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1. All previous and relevant survey information, such as Preliminary Surveys and construction plans, if available, will be provided to ASE at no cost prior to starting the work.
2. Subsurface Utility Engineering (SUE) standards referred to within this scope of work are in accordance with the CI/ASCE 38-22 Standard Guideline for Investigating and Documenting Existing Utilities.
3. American Surveying & Engineering shall not be responsible for any erroneous or missing information provided by underground utility providers.
4. Owner/Agent will provide a Letter of Introduction to facilitate field operations.
5. Hazardous Waste sites designated as requiring protective equipment of "Class D" or greater will not be entered unless provided for otherwise in the Scope of Work Tasks. ASE does not engage in the cleanup, handling, or disposal of biological waste, regulated medical waste, or sharps.
6. American Surveying & Engineering is not signatory to any organized labor agreements. We will not provide services in any capacity where labor disputes may exist. We will not be responsible for costs or delays associated with labor disputes relevant to work on this project.
7. Field work performed on this project is subject to the vagaries of weather. In the event weather impairs our ability to perform any specified professional services, we will contact the Owner/Agent to determine changes in schedule or cost. No additional work will be performed until the Owner/Agent has reviewed and approved a revised cost or schedule.
8. Manholes or other confined spaces (as defined by OSHA) will not be entered or cleaned. Invert elevation, pipe size/type were obtained from surface level and should be used as a check on plan information only. For design purposes field verification by below grade examination (SUE) should be performed.
9. This proposal assumes the flowlines of project drainage structures (culverts, manholes, inlets, etc.) will be surveyed as existing conditions. ASE will not clean, excavate, pump or otherwise remove debris, silt, trash or other material from project structures.
10. If additional permit fees are required for access, we will contact the agent before proceeding.
11. This proposal is based on an assumption that 10 SUE Quality Level A test holes will be necessary, with 2 of them being in the pavement.
12. SUE Quality Level A test holes will be billed at the following rates:
  - a. Location holes 0-3.00 feet in depth will be billed at \$1,849.00 per hole.
  - b. Location holes 3.01-6.00 feet in depth will be billed at \$2,440.00 per hole (assume 5).
  - c. Location holes 6.01-12.00 feet in depth will be billed at \$3,485.00 per hole (assume 5).
  - d. Location holes 12.01-18.00 feet in depth will be billed at \$4,423.00 per hole.
  - e. Location holes 18.01 feet and over will be billed on an hourly rate.
13. This proposal assumes 24,700 linear feet of SUE Quality Level B. The cost of designating, surveying, and mapping SUE Quality Level B is \$2.99 per linear foot.
14. This proposal assumes 65 utility poles will inventoried at a cost of \$160.00 per pole.
15. The SUE Quality Level B and SUE Quality Level A rates do not include professional service support hours. Those are included in the CECS form.
16. ASE will commence work within 10 days of the Notice to Proceed.
17. This SOW shall become part of the contract between Owner/Agent and ASE.

## SCHEDULE

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1. This proposal assumes our work will commence within 6 months of the proposal date of December 17, 2025. If the proposal is not approved and ASE has not been issued a Notice to

Proceed within 6 months, ASE reserves the right to adjust the proposed rates and fees to current rates before entering into a contract and beginning work.

## PROPOSED TASKS

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1. Data Collection and Evaluation
  - 1.1. Obtain relevant project documents from Owner/Agent and Courthouse.
  - 1.2. Compile, review and index information.
  - 1.3. Prepare compiled information for field and office tasks.
  - 1.4. Field trips to project area (assume 1 field trip for 2 staff members at 8 hours each).
  
3. Subsurface Utility Engineering
  - 3.1 Horizontal and Vertical Control. - Horizontal Control will use NAD 83 IL East Zone State Plane Coordinates – Vertical Control will GPS derived NAVD88 values.
    - 3.1.1 Search and reconnaissance for record control points. Recover and verify previous control points.
    - 3.1.2 Set additional control points for Data Collection.
    - 3.1.3 Traverse/GPS/level through found monuments to establish primary control.
    - 3.1.4 Office calculations, adjustment, tabulations of coordinates.
  - 3.2 SUE Quality Level D
    - 3.2.1 Research and review existing utility information.
    - 3.2.2 Request Atlas information from One-Call system (JULIE). It is typically 30 days to receive all Atlases.
  - 3.3 SUE Quality Level C – **Only Pole Inventories are included, with 65 poles assumed. It is assumed that Storm and Sanitary Sewers will be picked up in the topography by the project surveyor and the pipe networks will be depicted on the existing topography sheets.**
    - 3.3.1 Pole Inventories
      - 3.3.1.1 Approximately 65 poles are believed to exist within the project area.
      - 3.3.1.2 Utility pole locations will be captured.
      - 3.3.1.3 Utility Poles will be inventoried. The various utility lines suspended from each pole will be noted on the pole inventory data sheet.
      - 3.3.1.4 Low wire elevations are assumed not required for the project. Pole data will be included with the SUE Report.
  - 3.4 SUE Quality Level B
    - 3.4.1 SUE Quality Level B information will be collected via applicable Radio Frequency (RF) geophysical techniques. When requested, and applicable, Ground Penetrating RADAR (GPR) technology is employed.
    - 3.4.2 Ground conditions, utility type and depth may prevent the acquisition of accurate utility information. This may result in inaccurate utility locates. Utilities will be located to the best extent via the locating methods available. SUE Level B information does not provide elevation information.
    - 3.4.3 Designated SUE Quality Level B utilities are drawn in a coordinate correct CADD model file environment for distribution to the client.
      - 3.4.3.1 The estimated depth to the centroid (vertical midpoint) of each utility will be recorded whenever conditions permit. This information is not acquired for all buried utilities when conducting the Level B Designation but will be reported when

acquired. Approximate SUE Level B depths are not a replacement for actual SUE Level A data but may aid the designer in other aspects.

- 3.4.3.2 Only the actual designated length will be invoiced. Those utilities that are believed to exist, but which ASE is unable to designate, will be drawn in the utility model as Level D data. This information will not be invoiced at the unit lineal foot price, but rather included as part of the DGN drawing file and sheet preparation work.
- 3.5 SUE Quality Level A Test Holes – Assume 10 test holes, with 2 in hard surfaces
  - 3.5.1 Obtain Dig tickets as required for SUE Quality Level A Test Holes.
  - 3.5.2 Perform Hydro or Air vac excavation to expose specified utilities for accurate depiction of the utility location and subsequent backfill with excavation spoils or sand (billed as direct unit cost).
  - 3.5.3 Obtain X, Y, Z coordinates of top of utility locations and ground elevation.
  - 3.5.4 Provide a Test Hole Data Sheet for each Quality Level A Test Hole.
- 3.6 Final Review and SUE Report
  - 3.6.1 ASE staff will walk through the project site to review the SUE plans and determine that all information is accurate.
  - 3.6.2 ASE will prepare a final SUE Report in accordance with ASCE 38-22 standards. The report will include the results, preliminary conflict exhibits with supporting table identifying specific conflicts, SUE Quality Level B plan sheets with different line styles used to depict Quality Level D information from Quality Level B information, and the report narrative per the ASCE 38-22 requirements.
  - 3.6.3 The DGN file prepared will be in the Open Roads format selected by the Owner. The utilities file will be a 3D file with respect to X,Y,Z information captured. Individual utility conduit sizes (when known) will be represented in the DGN CADD file provided.
  - 3.6.4 Storm and Sanitary pipe sizes will not be included in the DGN file (assumed to be provided by the topography survey)
- 3.7 Utility Company Coordination
  - 3.7.1 Prepare and submit the existing utility plan sheets prepared to the various impacted utility companies found in the project area.
  - 3.7.2 Solicit utility company input on the plans submitted and coordinate utility conflicts.
  - 3.7.3 Set up utility review meetings with utility companies.
- 12. Project and Agency Coordination
  - 12.1 Project Team Meetings (assume 1 staff member for 26 1-hour meetings).
  - 12.2 LCDOT Status Meetings (assume 1 staff member for 12 1-hour meetings).
  - 12.3 Lake County Public Works Meetings (assume 1 staff member for 4 1-hour meetings).
- 13. Administration
  - 13.1 Meetings with Owner or Agent, including in-house meetings. Progress Reports, scheduling, invoicing and other project administrative tasks.
  - 13.2 Technical direction of staff
  - 13.3 Project Management, resource coordination.
- 14. QA/QC
  - 14.1 Review contract documents and survey requirements to verify ASE project QA/QC requirements. Create project-specific QA/QC plan.
  - 14.2 Periodic project review to ensure compliance with policy and contract documents.

## DELIVERABLES

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- Final SUE Report including Utility Plan Sheets using 1"=20' scale.
- Once SUE Level A is completed, a geo-referenced .dwg CAD file in IL State Plane Coordinates containing the existing underground utilities and depth information where excavations were performed.
- PDF of any field drawings illustrating location of vacuum excavations, including any field notes.
- DGN formatted drawing file of the utility information captured
- Raw survey data (.CVS file of all points)
- Survey field book (PDF)

## DIRECT COST ITEMS

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- A. Traffic control – assume \$1,760 per day. Assume 6 days.
- B. SUE Quality Level A Test Hole 3.01-6.00 feet in depth bill at \$2,440.00 per hole. Assume 5 holes.
- C. SUE Quality Level A Test Hole 6.01-12.00 feet in depth billed at \$3,485.00 per hole. Assume 5 holes.
- D. Coring – 6-18" in pavement - \$1,477 per core. Assume 2 cores.
- E. Backfill – \$50 per hole. Assume 10 holes.
- F. Flowable Fill – \$280 per hole. Assume 2 holes.
- G. Disposal fee (If Hydrovac required, and testing fees might also be required)
- H. SUE Quality Level B Designating bill at \$2.99 per linear foot. Assume 24,700 linear feet.
- I. Pole Inventory - \$160.00 per pole. Assume 65 poles.
- J. ASE assumes any permit costs will be waived by Lake County and/or the local municipality. Should permit costs become required, these will be invoiced as a direct cost without markup.

## ITEMS SUPPLIED BY OTHERS

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- A. Record plans, including any previous survey information (if available).
- B. All pertinent site information including, but not limited to, previous horizontal and vertical survey control survey information, boundary surveys, existing aerial photography, Right-of-Way plans, centerline alignment, construction plans and plats of highway will be furnished to ASE, at no cost to ASE, prior to commencement of field operations.
- C. Permission and access to closed or locked areas requiring access to complete the survey.
- D. Letter of Introduction and written authorization for access to subject property for ASE's services on subject site.



PROJECT: Rollins Road & Wilson Road SUE

LOCATION: Lake County  
CLIENT: Stanley

PROPOSAL No.: 225101  
DATE: 12/17/2025

TASK 1.0 Data Collection and Evaluation		Man Hours																					
ITEM	Description	PIC	PM	P/S/E 4	P/S/E 3	P/S/E 2	P/S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 4	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
1.1	Obtain relevant project documents		1				1																2
1.2	Compile, review, index info						1																2
1.3	Prepare info for field & office tasks		1				1																2
1.4	Field trips to project area				8		8																16
1.5																							0
1.6																							0
1.7																							0
1.8																							0
1.9																							0
TOTAL HOURS		0	3	0	8	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22

TASK 3.0 Subsurface Utility Engineering		Man Hours																					
ITEM	Description	PIC	PM	P/S/E 4	P/S/E 3	P/S/E 2	P/S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 4	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
2.1	Horizontal & Vertical Control		1				1																24
2.2	SUE QLD		2				6										2	10	10				8
2.3	SUE QLC (Pole Inventories only)																						0
2.4	SUE QLB Designating																						0
2.5	SUE QLA Locating																						0
2.6	Final review & SUE report		2		12		18																32
2.7	Utility Coordination		9		8		36																53
2.8																							0
2.9																							0
2.10																							0
TOTAL HOURS		0	14	0	20	0	61	0	0	0	0	0	0	0	0	0	2	10	10	0	0	0	117

TASK 12.0 Project and Agency Coordination		Man Hours																					
ITEM	Description	PIC	PM	P/S/E 4	P/S/E 3	P/S/E 2	P/S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 4	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
3.1	Project Team Meetings (26 1-hour meetings)		26																				26
3.2	LCDOT Status Meetings (12 1-hour meetings)		12																				12
3.3	Lake County Public Works Meetings (4 1-hour meetings)		4																				4
3.4																							0
3.5																							0
3.6																							0
3.7																							0
3.8																							0
3.9																							0
TOTAL HOURS		0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42

TASK 13.0 Project Administration		Man Hours																					
ITEM	Description	PIC	PM	P/S/E 4	P/S/E 3	P/S/E 2	P/S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 4	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
4.1	Progress Reports & Invoices		11																		1		12
4.2																							0
4.3																							0
4.4																							0
4.5																							0
4.6																							0
4.7																							0
4.8																							0
4.9																							0
TOTAL HOURS		0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	12



PROJECT: Rollins Road & Wilson Road SUE  
LOCATION: Lake County  
CLIENT: Stanley

PROPOSAL No.: 225101  
DATE: 12/17/2025

TASK 14.0 QA/QC		Man Hours																					
ITEM	Description	PIC	PM	P/S/E 4	P/S/E 3	P/S/E 2	P/S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 4	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
5.1	Review of milestone submittals		8																				8
5.2																							0
5.3																							0
5.4																							0
5.5																							0
5.6																							0
5.7																							0
5.8																							0
5.9																							0
TOTAL HOURS		0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8



PROJECT: Rollins Road & Wilson Road SUE

LOCATION: Lake County

CLIENT: Stanley

PROPOSAL No. : 225101

DATE: 12/17/2025

SUMMARY OF TASKS		MANHOURS																				
TASK	PIC	PM	P/S/E 4	P/S/E 3	P/S/E 2	P/S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 4	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
1.0 Data Collection and Evaluation	0	3	0	8	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
3.0 Subsurface Utility Engineering	0	14	0	20	0	61	0	0	0	0	0	0	0	0	0	2	10	10	0	0	0	117
12.0 Project and Agency Coordination	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
13.0 Project Administration	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12
14.0 QA/QC	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Hours</b>	0	78	0	28	0	72	0	0	0	0	0	0	0	0	0	2	10	10	0	1	0	201



1145 N. Main Street  
Lombard, IL 60148  
(630) 953-9928

[WangEng.com](http://WangEng.com) | [Terracon.com](http://Terracon.com)

November 19, 2025

Tyler Grau, P.E.  
Traffic Engineering Department Manager  
Stanley Consultants  
8501 W. Higgins Road, Suite 730  
Chicago, IL 60631

Reference: Proposal for Geotechnical Engineering Services  
Rollins Road at Wilson Road Preliminary Engineering Scope of Services  
Lake County Division of Transportation  
Section # 25-00080-67-CH  
Lake County, Illinois  
**Wang PKE255333**

Dear Mr. Grau:

Wang Engineering, Inc., A Terracon Company (Wang), is pleased to present our proposal to provide preliminary geotechnical investigation for the proposed improvements of Rollins Road at Wilson Road intersection in Lake County, Illinois. The following sections describe our understanding of proposed scope of work and assumptions in preparation of the cost estimate.

#### **SCOPE OF WORK**

Based on information provided Stanley Consultants (Stanley) we understand that about 2000 feet of the Wilson Road will be reconstructed or resurfaced. As part of the proposed improvements, there might also be three new 500-foot long retaining walls. The bridge over the Manitou Creek and existing culverts will not be affected by the reconstruction. Thus, our geotechnical investigation during the Preliminary Engineering will only be focused on a 2000 feet section of Wilson Road and three new retaining walls. Additional structure, roadway, and peat sounding borings might be necessary to be completed during the final design.

We are proposing the investigation program as detailed in Table 1.

Table 1: Proposed Geotechnical Investigation Program

Location	Length (Feet)	Boring Spacing (Feet)	Estimated Borings	Boring Depth (Feet)	Estimated Total Drilling (Feet)
Wilson Road	2000	300	9	10	90
Retaining Wall 1	500	150	4	40	160
Retaining Wall 2	500	150	4	40	160
Retaining Wall 3	500	150	4	40	160
Total			21		570

To accomplish the project objectives, Wang expects to complete the following tasks:

### Geotechnical Drilling Services

Wang will provide equipment, labor, and associated materials to drill, test, and collect soil samples in 21 boreholes to depths ranging from 10 to 40 feet below the ground surface (bgs) for a total of 570 feet of drilling and sampling. We will collect soil samples with split-spoon samplers according to AASHTO T 206, "Penetration Test and Split-Barrel Sampling of Soils". Soil samples in the roadway borings will be sampled at continuous intervals. The soil samples in the structure borings will be sampled at 2.5-foot intervals to the boring termination depth of 40 feet. After drilling, groundwater levels will be measured in boreholes. Because of the site location, for safety reasons, boreholes will be backfilled with soil cuttings and bentonite chips or grouted.

### Field Supervision

Before starting the investigation, Wang will mark the boring locations in the field and will clear the existing utilities through the JULIE one-call system and conduct an on-site private utility locate (PUL). Our staff will check utility clearance prior to mobilizing the rig on site. A field geologist will monitor drilling activities, maintain daily field notes and boring logs, as well as receive, classify, and prepare soil samples, rock cores, and deck cores for laboratory testing. The field geologist will perform pocket penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples and observe the groundwater level in boreholes during and after completion of drilling. Wang will survey as-drilled boring locations and elevations with a mapping-grade GPS having an accuracy of +/- 5.0 feet. Any remaining soil cuttings will be spread evenly off pavement in the vicinity of boreholes.

### Geotechnical Laboratory Testing

After the completion of the drilling, the soil samples will be transported to our laboratory in Lombard for testing. The soil testing program will include natural moisture content on all soil samples. Selected soil samples from representative soil units will be tested for Atterberg limits, grain size distribution, and organic contents.

### Geotechnical Engineering and Recommendations

The following reports will be prepared by Wang:

- Geotechnical Report – Walls
- Roadway Geotechnical Letter Report- Intersection Improvements

The geotechnical reports will include a detailed description of soil and groundwater conditions encountered, field and laboratory testing procedures and results, and preliminary recommendations for the design and construction of the proposed improvements. The reports will also include a site location map, boring location plan, boring logs, and soil profiles.

### **SCHEDULING**

Wang will start the project expediently upon prior written authorization to proceed. We anticipate that after utility clearance, up to seven working days will be necessary to complete the field investigation phase of the project. The laboratory testing program will proceed concurrently with the drilling activities and will be concluded within 2 weeks after drilling completion. The schedule for delivery of reports will be determined during the execution of the project.

### **ESTIMATED COSTS**

Wang proposes to provide the services on time and materials basis at the unit prices shown on the attached cost estimate. Wang would not exceed the estimated upper limit without the client's approval. In preparing the cost estimate, we have assumed the following conditions:

- Permitting is not required; cost for any type of permits (IDOT, Village, County) is not included.
- All work will be within the roadway right of way.
- There is no anticipated design work at bridges and culverts.
- Roadway flaggers will be required to complete the field investigation.
- Additional insurance beyond our standard coverage is not included.
- No hazardous materials or contaminated soils will be encountered.

We appreciate the opportunity to present this proposal, and we look forward to working with Stanley Consultants and the Lake County Department of Transportation on this project. If you have questions, or if you require additional information, please contact us at (630) 953-9928.

Sincerely,

**Wang Engineering, Inc., a Terracon Company**

Azza Hamad, PE  
Senior Engineer

Corina T. Farez, PE, PG Principal  
Senior Engineering Consultant

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake	Stanley Consultants, Inc.	Lake	25-00080-67-CH

**EXHIBIT B  
PROJECT SCHEDULE**

See attached



<b>Local Public Agency</b> Lake	<b>County</b> Lake	<b>Section Number</b> 25-00080-67-CH
<b>Prime Consultant (Firm) Name</b> Stanley Consultants, Inc.	<b>Prepared By</b> Tyler Grau	<b>Date</b> 12/23/2025
<b>Consultant / Subconsultant Name</b> Stanley Consultants, Inc.	<b>Job Number</b> 	

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

<b>CONTRACT TERM</b>	30	MONTHS	<b>OVERHEAD RATE</b>	187.42%
<b>START DATE</b>	2/2/2026		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	4/1/2026		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	8/1/2028			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	2/2/2026	4/1/2026	2	6.67%
1	4/2/2026	4/1/2027	12	41.20%
2	4/2/2027	4/1/2028	12	42.44%
3	4/2/2028	8/1/2028	4	14.57%

**The total escalation = 4.87%**

Local Public Agency

County

Section Number

Lake

Lake

25-00080-67-CH

Consultant / Subconsultant Name

Job Number

Stanley Consultants, Inc.

**PAYROLL RATES**

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

MAXIMUM PAYROLL RATE	90.00
ESCALATION FACTOR	4.87%

JOB SPECIFIC - Classifications and Average Payrates need to match current payrolls submitted to the Department.

CLASSIFICATION	IDOT AVG PAYROLL RATES ON FILE	CALCULATED RATE
Regional Manager	\$90.00	\$90.00
Client Services Manager	\$90.00	\$90.00
Department Manager	\$86.94	\$90.00
Principal Engineer	\$87.37	\$90.00
Senior Engineer	\$61.36	\$64.35
Senior Environmental Planner	\$70.67	\$74.11
Senior Environmental Scientist	\$58.00	\$60.83
Senior Transportation Planner	\$60.10	\$63.03
Engineer	\$55.71	\$58.42
Engineer-in-Training II	\$43.72	\$45.85
Engineer-in-Training I	\$36.60	\$38.38
Senior Resident Project Rep	\$71.71	\$75.20
Resident Project Rep	\$65.46	\$68.65
ECM Consultant	\$69.57	\$72.96
Specialist II	\$43.27	\$45.38
Senior Designer	\$57.45	\$60.25
GIS Coordinator	\$55.43	\$58.13
Senior Technician	\$46.00	\$48.24
Senior Administrative Assistant	\$34.28	\$35.95
Engineering Student Intern 4	\$26.00	\$27.27
Engineering Student Intern 3	\$25.00	\$26.22
Engineering Student Intern 2	\$22.00	\$23.07
Engineering Student Intern 1	\$21.00	\$22.02



**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**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
Per Diem (per Federal GSA)	Up to federal maximum			\$0.00
Lodging (per Federal GSA)	Actual Cost (Up to Federal rate maximum)			\$0.00
Lodging Taxes and Fees (per Federal GSA)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per Federal GSA)	Up to Federal rate maximum	5750	\$0.70	\$4,025.00
Vehicle Owned or Leased (no mileage charge allowed)	\$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	70	\$1.90	\$133.00
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)			\$0.00
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)	3	\$1,000.00	\$3,000.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)	2	\$2,000.00	\$4,000.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)	2	\$1,200.00	\$2,400.00
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
Utility 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)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Camera Equipment Postage		1	\$900.00	\$900.00
				\$0.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$14,458.00</b>

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**COST ESTIMATE WORKSHEET**

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

**OVERHEAD RATE** 187.42%

**COMPLEXITY FACTOR** 0

TASK	DIRECT COSTS (not included in row totals)	MANHOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Data Collection and Evaluation	380	128	7,086	13,280	2,338		23,084	1.30%
Survey and Alignment			-	-	-		-	0.00%
SUE Engineering		8	594	1,113	196		1,903	0.11%
Traffic Studies	1,054	1040	54,345	101,854	17,934		175,187	9.88%
Environmental		8	617	1,157	204		1,978	0.11%
Drainage Studies			-	-	-		-	0.00%
Structural Studies		336	21,101	39,548	6,963		67,612	3.81%
Alternatives Analysis		576	30,153	56,513	9,951		96,617	5.45%
Preliminary Engineering Plans		1138	59,869	112,207	19,757		191,833	10.81%
Engineering Reports		376	19,938	37,368	6,580		63,886	3.60%
Public Involvement	12,548	800	44,250	82,933	14,602		154,333	8.70%
Project and Agency Coordination	476	296	20,000	37,484	6,600		64,560	3.64%
Project Administration		184	15,695	29,416	5,179		50,290	2.84%
QA/QC		188	15,176	28,442	5,008		48,626	2.74%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
Baxter & Woodman			-	-	-	297,903	297,903	16.79%
DB Sterlin Consultants, Inc.			-	-	-	140,088	140,088	7.90%
Terracon / Wang			-	-	-	207,713	207,713	11.71%
American Surveying & Engineering			-	-	-	168,548	168,548	9.50%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
<b>Subconsultant DL</b>					19,708.00		\$19,708.00	1.11%
<b>TOTALS</b>	14,458	5078	288,824	541,315	115,020	814,252	1,773,869	100.00%

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**  
**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 1 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Data Collection and Evaluation			Survey and Alignment			SUE Engineering			Traffic Studies			Environmental		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Regional Manager	90.00	0.0																	
Client Services Manager	90.00	0.0																	
Department Manager	90.00	516.0	10.16%	9.15	8	6.25%	5.63				4	50.00%	45.00	40	3.85%	3.46	4	50.00%	45.00
Principal Engineer	90.00	152.0	2.99%	2.69															
Senior Engineer	64.35	988.0	19.46%	12.52	24	18.75%	12.07							210	20.19%	12.99	4	50.00%	32.17
Senior Environmental Planner	74.11	0.0																	
Senior Environmental Scientist	60.83	0.0																	
Senior Transportation Planner	63.03	0.0																	
Engineer	58.42	1,148.0	22.61%	13.21	32	25.00%	14.61				4	50.00%	29.21	260	25.00%	14.61			
Engineer-in-Training II	45.85	974.0	19.18%	8.79	24	18.75%	8.60							190	18.27%	8.38			
Engineer-in-Training I	38.38	1,016.0	20.01%	7.68	24	18.75%	7.20							300	28.85%	11.07			
Senior Resident Project Representative	75.20	0.0																	
Resident Project Rep	68.65	0.0																	
ECM Consultant	72.96	0.0																	
Specialist II	45.38	40.0	0.79%	0.36										40	3.85%	1.75			
Senior Designer	60.25	112.0	2.21%	1.33															
GIS Coordinator	58.13	16.0	0.32%	0.18	16	12.50%	7.27												
Senior Technician	48.24	60.0	1.18%	0.57															
Senior Administrative Assistant	35.95	56.0	1.10%	0.40															
Engineering Student Intern	27.27	0.0																	
Engineering Student Intern	26.22	0.0																	
Engineering Student Intern	23.07	0.0																	
Engineering Student Intern	22.02	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		5078.0	100%	\$56.88	128.0	100.00%	\$55.36	0.0	0%	\$0.00	8.0	100%	\$74.21	1040.0	100%	\$52.26	8.0	100%	\$77.17

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**  
**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Drainage Studies			Structural Studies			Alternatives Analysis			Preliminary Engineering Plans			Engineering Reports			Public Involment		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Regional Manager	90.00																		
Client Services Manager	90.00																		
Department Manager	90.00				32	9.52%	8.57	16	2.78%	2.50	28	2.46%	2.21	16	4.26%	3.83	100	12.50%	11.25
Principal Engineer	90.00				32	9.52%	8.57												
Senior Engineer	64.35							120	20.83%	13.41	250	21.97%	14.14	72	19.15%	12.32	140	17.50%	11.26
Senior Environmental Planner	74.11																		
Senior Environmental Scientist	60.83																		
Senior Transportation Planner	63.03																		
Engineer	58.42				100	29.76%	17.39	160	27.78%	16.23	300	26.36%	15.40	100	26.60%	15.54	160	20.00%	11.68
Engineer-in-Training II	45.85				60	17.86%	8.19	120	20.83%	9.55	300	26.36%	12.09	108	28.72%	13.17	140	17.50%	8.02
Engineer-in-Training I	38.38							160	27.78%	10.66	260	22.85%	8.77	80	21.28%	8.17	160	20.00%	7.68
Senior Resident Project Rep	75.20																		
Resident Project Rep	68.65																		
ECM Consultant	72.96																		
Specialist II	45.38																		
Senior Designer	60.25				112	33.33%	20.08												
GIS Coordinator	58.13																		
Senior Technician	48.24																60	7.50%	3.62
Senior Administrative Assistant	35.95																40	5.00%	1.80
Engineering Student Intern 4	27.27																		
Engineering Student Intern 3	26.22																		
Engineering Student Intern 2	23.07																		
Engineering Student Intern 1	22.02																		
<b>TOTALS</b>		0.0	0%	\$0.00	336.0	100%	\$62.80	576.0	100%	\$52.35	1138.0	100%	\$52.61	376.0	100%	\$53.03	800.0	100%	\$55.31

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Stanley Consultants, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**  
**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET  3  OF  3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Project and Agency Coordination			Project Administration			QA/QC											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Regional Manager	90.00																		
Client Services Manager	90.00																		
Department Manager	90.00	100	33.78%	30.41	168	91.30%	82.17												
Principal Engineer	90.00							120	63.83%	57.45									
Senior Engineer	64.35	100	33.78%	21.74				68	36.17%	23.28									
Senior Environmental Planner	74.11																		
Senior Environmental Scientist	60.83																		
Senior Transportation Planner	63.03																		
Engineer	58.42	32	10.81%	6.32															
Engineer-in-Training II	45.85	32	10.81%	4.96															
Engineer-in-Training I	38.38	32	10.81%	4.15															
Senior Resident Project Rep	75.20																		
Resident Project Rep	68.65																		
ECM Consultant	72.96																		
Specialist II	45.38																		
Senior Designer	60.25																		
GIS Coordinator	58.13																		
Senior Technician	48.24																		
Senior Administrative Assistant	35.95				16	8.70%	3.13												
Engineering Student Intern 4	27.27																		
Engineering Student Intern 3	26.22																		
Engineering Student Intern 2	23.07																		
Engineering Student Intern 1	22.02																		
<b>TOTALS</b>		296.0	100%	\$67.57	184.0	100%	\$85.30	188.0	100%	\$80.72	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00



<b>Local Public Agency</b> Lake	<b>County</b> Lake	<b>Section Number</b> 25-00080-67-CH
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Jay Coleman	<b>Date</b> 12/18/2025
<b>Consultant / Subconsultant Name</b> Baxter & Woodman, Inc.	<b>Job Number</b> 	

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			
START DATE	2/2/2026			OVERHEAD RATE	163.36%
RAISE DATE	12/28/2026			COMPLEXITY FACTOR	0
				% OF RAISE	3.00%
END DATE	2/1/2028				

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	2/2/2026	12/28/2026	11	45.83%
1	12/29/2026	12/28/2027	12	51.50%
2	12/29/2027	1/28/2028	1	4.42%

The total escalation = 1.75%

**Local Public Agency**

**County**

**Section Number**

Lake

Lake

25-00080-67-CH

**Consultant / Subconsultant Name**

**Job Number**

Baxter & Woodman, Inc.

**PAYROLL RATES**

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

<b>MAXIMUM PAYROLL RATE</b>	<b>90.00</b>
<b>ESCALATION FACTOR</b>	<b>1.75%</b>

**JOB SPECIFIC - Classifications and Average Payrates need to match current payrolls submitted to the Department.**

<b>CLASSIFICATION</b>	<b>IDOT AVG PAYROLL RATES ON FILE</b>	<b>CALCULATED RATE</b>
Executive Vice President	\$90.00	\$90.00
Vice President	\$89.20	\$90.00
Engineer VII	\$80.49	\$81.90
Engineer VI	\$74.25	\$75.55
Engineer V	\$65.69	\$66.84
Engineer IV	\$57.91	\$58.93
Engineer III	\$49.86	\$50.73
Engineer II	\$44.85	\$45.64
Engineer I	\$39.73	\$40.43
Electrical Automation Engineer IV	\$56.00	\$56.98
Environ. Scientist V	\$59.67	\$60.72
Environ. Scientist IV	\$48.00	\$48.84
Engineer Tech V	\$57.65	\$58.66
Engineer Tech IV	\$49.93	\$50.81
Engineer Tech III	\$42.50	\$43.25
Engineer Tech II	\$34.64	\$35.25
Spatial Tech. Prof. IV	\$56.00	\$56.98
Spatial Tech. Prof. II	\$37.83	\$38.49
Survey Manager	\$60.00	\$61.05
Surveyor, Project	\$45.33	\$46.12
Survey Tech. I	\$30.00	\$30.53
CADD Technician III	\$49.50	\$50.37
Marketing Prof. IV	\$50.00	\$50.88
Marketing Prof. III	\$46.50	\$47.32
Admin. Support IV	\$42.83	\$43.58



**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Baxter & Woodman, Inc.

**Job Number**

**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
Per Diem (per Federal GSA)	Up to federal maximum			\$0.00
Lodging (per Federal GSA)	Actual Cost (Up to Federal rate maximum)			\$0.00
Lodging Taxes and Fees (per Federal GSA)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per Federal GSA)	Up to Federal rate maximum	2100	\$0.70	\$1,470.00
Vehicle Owned or Leased (no mileage charge allowed)	\$45.00/half day (4 hours or less) or \$90/full day	18	\$90.00	\$1,620.00
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)			\$0.00
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)	16	\$100.00	\$1,600.00
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)	1	\$5,000.00	\$5,000.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility 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)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)	1	\$500.00	\$500.00
LIDAR Instrument, Streetview and Aerial Cameras		2	\$1,300.00	\$2,600.00
Title commitments (includes 1 update)		20	\$750.00	\$15,000.00
LCSMC Jurisdictional Determination Fee		1	\$720.00	\$720.00

**TOTAL DIRECT COSTS: \$28,510.00**



Local Public Agency

Lake

County

Lake

Section Number

25-00080-67-CH

Consultant / Subconsultant Name

Baxter & Woodman, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES
EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 3

Table with 21 columns: PAYROLL CLASSIFICATION, AVG HOURLY RATES, TOTAL PROJ. RATES (Hours, % Part, Wgtd Avg), 1 Data Collection and Evaluation (Hours, % Part, Wgtd Avg), 2 Survey and Alignment (Hours, % Part, Wgtd Avg), 3 Subsurface Utility Engineering (Hours, % Part, Wgtd Avg), 4 Traffic Studies (Hours, % Part, Wgtd Avg), 5 Env. Data, Coord., Inventory & Analysis (Hours, % Part, Wgtd Avg). Rows include various job titles like Executive Vice President, Engineer VII, etc., and a final TOTALS row.

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Baxter & Woodman, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**  
**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET  2  OF  3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	6 Drainage Studies			7 Structural Studies			8 Alternatives Analysis and Concept Design			9 Preliminary Engineering Plans			10 Engineering Reports			11 Public Involvement		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Executive Vice President	90.00																		
Vice President	90.00				8	50.00%	45.00	6	25.00%	22.50	2	14.29%	12.86	2	16.67%	15.00			
Engineer VII	81.90				8	50.00%	40.95	18	75.00%	61.43	12	85.71%	70.20	10	83.33%	68.25	20	4.52%	3.71
Engineer VI	75.55																40	9.05%	6.84
Engineer V	66.84																60	13.57%	9.07
Engineer IV	58.93																22	4.98%	2.93
Engineer III	50.73																		
Engineer II	45.64																		
Engineer I	40.43																		
Electrical Automation Engineer	56.98																		
Environ. Scientist V	60.72																		
Environ. Scientist IV	48.84																		
Engineer Tech V	58.66																		
Engineer Tech IV	50.81																		
Engineer Tech III	43.25																		
Engineer Tech II	35.25																		
Spatial Tech. Prof. IV	56.98																		
Spatial Tech. Prof. II	38.49																		
Survey Manager	61.05																		
Surveyor, Project	46.12																		
Survey Tech. I	30.53																		
CADD Technician III	50.37																		
Marketing Prof. IV	50.88																40	9.05%	4.60
Marketing Prof. III	47.32																140	31.67%	14.99
Admin. Support IV	43.58																120	27.15%	11.83
<b>TOTALS</b>		0.0	0%	\$0.00	16.0	100%	\$85.95	24.0	100%	\$83.93	14.0	100%	\$83.06	12.0	100%	\$83.25	442.0	100%	\$53.97

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Baxter & Woodman, Inc.

**Job Number**

**AVERAGE HOURLY PROJECT RATES**  
**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET  3  OF  3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	12 Project and Agency Coordination			13 Project Administration			14 QA/QC											
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Executive Vice President	90.00																		
Vice President	90.00							24	42.86%	38.57									
Engineer VII	81.90	88	100.00%	81.90	72	100.00%	81.90	32	57.14%	46.80									
Engineer VI	75.55																		
Engineer V	66.84																		
Engineer IV	58.93																		
Engineer III	50.73																		
Engineer II	45.64																		
Engineer I	40.43																		
Electrical Automation Engineer	56.98																		
Environ. Scientist V	60.72																		
Environ. Scientist IV	48.84																		
Engineer Tech V	58.66																		
Engineer Tech IV	50.81																		
Engineer Tech III	43.25																		
Engineer Tech II	35.25																		
Spatial Tech. Prof. IV	56.98																		
Spatial Tech. Prof. II	38.49																		
Survey Manager	61.05																		
Surveyor, Project	46.12																		
Survey Tech. I	30.53																		
CADD Technician III	50.37																		
Marketing Prof. IV	50.88																		
Marketing Prof. III	47.32																		
Admin. Support IV	43.58																		
<b>TOTALS</b>		88.0	100%	\$81.90	72.0	100%	\$81.90	56.0	100%	\$85.37	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

<b>Local Public Agency</b> Lake	<b>County</b> Lake	<b>Section Number</b> 25-00080-67-CH
<b>Prime Consultant (Firm) Name</b> Stanley Consultants, Inc.	<b>Prepared By</b> 	<b>Date</b> 12-19-2025
<b>Consultant / Subconsultant Name</b> American Surveying & Engineering, Ltd	<b>Job Number</b> 	

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

<b>CONTRACT TERM</b>	24	MONTHS	<b>OVERHEAD RATE</b>	183.30%
<b>START DATE</b>	2/2/2026		<b>COMPLEXITY FACTOR</b>	0
<b>RAISE DATE</b>	1/1/2027		<b>% OF RAISE</b>	3.00%
<b>END DATE</b>	2/1/2028			

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	2/2/2026	1/1/2027	11	45.83%
1	1/2/2027	1/1/2028	12	51.50%
2	1/2/2028	2/1/2028	1	4.42%

**The total escalation = 1.75%**

Local Public Agency

County

Section Number

Lake

Lake

25-00080-67-CH

Consultant / Subconsultant Name

Job Number

American Surveying & Engineering, Ltd

**PAYROLL RATES**

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

MAXIMUM PAYROLL RATE	90.00
ESCALATION FACTOR	1.75%

JOB SPECIFIC - Classifications and Average Payrates need to match current payrolls submitted to the Department.

CLASSIFICATION	IDOT AVG PAYROLL RATES ON FILE	CALCULATED RATE
PRINCIPAL IN CHARGE	\$89.44	\$90.00
PROJECT MANAGER	\$85.73	\$87.23
PROJECT SURVEYOR/ENGINEER 4	\$81.07	\$82.49
PROJECT SURVEYOR/ENGINEER 3	\$68.91	\$70.12
PROJECT SURVEYOR/ENGINEER 2	\$52.27	\$53.19
PROJECT SURVEYOR/ENGINEER 1	\$40.50	\$41.21
CADD TECHNICIANS	\$46.89	\$47.71
ENGINEERING/SURVEY TECHNICIAN 4	\$68.10	\$69.29
ENGINEERING/SURVEY TECHNICIAN 3	\$45.10	\$45.89
ENGINEERING/SURVEY TECHNICIAN 2	\$33.02	\$33.60
ENGINEERING/SURVEY TECHNICIAN 1	\$22.28	\$22.67
RIGHT-OF-WAY SPECIALIST 4	\$64.74	\$65.88
RIGHT-OF-WAY SPECIALIST 3	\$43.00	\$43.75
RIGHT-OF-WAY SPECIALIST 2	\$36.00	\$36.63
RIGHT-OF-WAY SPECIALIST 1	\$23.21	\$23.62
SUBSURFACE UTILITY ENGINEER 4	\$52.00	\$52.91
SUBSURFACE UTILITY ENGINEER 3	\$46.34	\$47.15
SUBSURFACE UTILITY ENGINEER 2	\$32.49	\$33.06
SUBSURFACE UTILITY ENGINEER 1	\$23.65	\$24.06
ADMINISTRATIVE/CLERICAL 3	\$33.40	\$33.99
ADMINISTRATIVE/CLERICAL 2	\$22.35	\$22.74

**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

American Surveying & Engineering, Ltd

**Job Number**

**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
Per Diem (per Federal GSA)	Up to federal maximum			\$0.00
Lodging (per Federal GSA)	Actual Cost (Up to Federal rate maximum)			\$0.00
Lodging Taxes and Fees (per Federal GSA)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per Federal GSA)	Up to Federal rate maximum			\$0.00
Vehicle Owned or Leased (no mileage charge allowed)	\$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)			\$0.00
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)	6	\$1,760.00	\$10,560.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility 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)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
SUE QLA services	See breakdown in scope	1	\$33,639.00	\$33,639.00
SUE QLB	Actual Cost per linear foot	24,700	\$2.99	\$73,853.00
Pole inventory	Actual Cost per pole	65	\$160.00	\$10,400.00

**TOTAL DIRECT COSTS:** \$128,452.00



**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

American Surveying & Engineering, Ltd

**Job Number**

**AVERAGE HOURLY PROJECT RATES**

**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1.0 Data Collection and Evaluation			3.0 Subsurface Utility Engineering			12.0 Project and Agency Coordination			13.0 Project Administration			14.0 QA/QC		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
PRINCIPAL IN CHARGE	90.00	0.0			0			0			0			0			0		
PROJECT MANAGER	87.23	78.0	38.81%	33.85	3	13.64%	11.90	14	11.97%	10.44	42	100.00%	87.23	11	91.67%	79.96	8	100.00%	87.23
PROJECT SURVEYOR/ENGINEER 4	82.49	0.0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 3	70.12	28.0	13.93%	9.77	8	36.36%	25.50	20	17.09%	11.99	0			0			0		
PROJECT SURVEYOR/ENGINEER 2	53.19	0.0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 1	41.21	72.0	35.82%	14.76	11	50.00%	20.61	61	52.14%	21.49	0			0			0		
CADD TECHNICIANS	47.71	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 4	69.29	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 3	45.89	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 2	33.60	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 1	22.67	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 4	65.88	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 3	43.75	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 2	36.63	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 1	23.62	0.0			0			0			0			0			0		
SUBSURFACE UTILITY ENGINEER 4	52.91	2.0	1.00%	0.53	0			2	1.71%	0.90	0			0			0		
SUBSURFACE UTILITY ENGINEER 3	47.15	10.0	4.98%	2.35	0			10	8.55%	4.03	0			0			0		
SUBSURFACE UTILITY ENGINEER 2	33.06	10.0	4.98%	1.64	0			10	8.55%	2.83	0			0			0		
SUBSURFACE UTILITY ENGINEER 1	24.06	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERICAL 3	33.99	1.0	0.50%	0.17	0			0			0			1	8.33%	2.83	0		
ADMINISTRATIVE/CLERICAL 2	22.74	0.0			0			0			0			0			0		
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		201.0	100%	\$63.07	22.0	100.00%	\$58.00	117.0	100%	\$51.67	42.0	100%	\$87.23	12.0	100%	\$82.80	8.0	100%	\$87.23



<b>Local Public Agency</b> Lake	<b>County</b> Lake	<b>Section Number</b> 25-00080-67-CH
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> R Cerrado	<b>Date</b> 11/19/2025
<b>Consultant / Subconsultant Name</b> DB Sterlin Consultants, Inc	<b>Job Number</b> 	

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			
START DATE	2/2/2026			OVERHEAD RATE	114.73%
RAISE DATE	2/1/2027			COMPLEXITY FACTOR	
				% OF RAISE	3.00%
END DATE	2/1/2028				

**ESCALATION PER YEAR**

Year	First Date	Last Date	Months	% of Contract
0	2/2/2026	2/1/2027	12	50.00%
1	2/2/2027	2/1/2028	12	51.50%

---

**The total escalation = 1.50%**





**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

DB Sterlin Consultants, Inc

**Job Number**

**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
Per Diem (per Federal GSA)	Up to federal maximum			\$0.00
Lodging (per Federal GSA)	Actual Cost (Up to Federal rate maximum)			\$0.00
Lodging Taxes and Fees (per Federal GSA)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per Federal GSA)	Up to Federal rate maximum			\$0.00
Vehicle Owned or Leased (no mileage charge allowed)	\$32.50/half day (4 hours or less) or \$65/full day	5	\$65.00	\$325.00
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)			\$0.00
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
Utility 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)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00

**TOTAL DIRECT COSTS:** \$325.00

BLR 05/2019 Rev. 10/24/25  
DIRECT COSTS







<b>Local Public Agency</b> Lake	<b>County</b> Lake	<b>Section Number</b> 25-00080-67-CH
<b>Prime Consultant (Firm) Name</b> Stanley Consultants	<b>Prepared By</b> Liviu Iordache	<b>Date</b> 12/22/2025
<b>Consultant / Subconsultant Name</b> Terracon/Wang	<b>Job Number</b> 	

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

**Remarks**

Rollins Road at Wilson Road Preliminary Engineering  
 PKE255333

### PAYROLL ESCALATION TABLE

CONTRACT TERM	24	MONTHS			
START DATE	2/2/2026			OVERHEAD RATE	204.64%
RAISE DATE	1/1/2027			COMPLEXITY FACTOR	
				% OF RAISE	3.00%
END DATE	2/1/2028				

### ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	2/2/2026	1/1/2027	11	45.83%
1	1/2/2027	1/1/2028	12	51.50%
2	1/2/2028	2/1/2028	1	4.42%

The total escalation = 1.75%





**Local Public Agency**

Lake

**County**

Lake

**Section Number**

25-00080-67-CH

**Consultant / Subconsultant Name**

Terracon/Wang

**Job Number**

**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)	6	\$150.00	\$900.00
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	1400	\$0.70	\$980.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	11	\$90.00	\$990.00
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)			\$0.00
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)	1	\$27,300.00	\$27,300.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost	1	\$46,650.00	\$46,650.00
Lab Services	Actual Cost (Provide breakdown of each cost)	1	\$5,400.00	\$5,400.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Geophysical Invesigation		1	\$115.00	\$115.00
EDR Documentation for PESA		1	\$305.00	\$305.00
Per Diem		8	\$58.00	\$464.00
				\$0.00
<b>TOTAL DIRECT COSTS:</b>				<b>\$83,104.00</b>

BLR 05514 (Rev. 02/06/25)





