



Using Federal Funds? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Agreement For MFT PE	Agreement Type Original
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LOCAL PUBLIC AGENCY

Local Public Agency Lake County Division of Transportation	County Lake	Section Number 21-00999-82-RS	Job Number
Project Number	Contact Name Julian Rozwadowski, PE	Phone Number (847) 377-7506	Email JRozwadowski@lakecountyil.gov

SECTION PROVISIONS

Local Street/Road Name Rollins Road (CH 31)	Key Route FAU 181	Length 2.50	Structure Number
Location Termini Fairfield Road to Hainesville Road			<input type="button" value="Add Location"/> <input type="button" value="Remove Location"/>

SECTION PROVISIONS

Local Street/Road Name Cedar Lake Road (CH28)	Key Route FAU 192	Length 0.06	Structure Number
Location Termini 300' south of Rollins Road to Rollins Road			<input type="button" value="Add Location"/> <input type="button" value="Remove Location"/>

SECTION PROVISIONS

Local Street/Road Name Washington Street (CH 45)	Key Route FAU 187	Length 0.65	Structure Number
Location Termini Chesapeake Boulevard to Atkinson Road			<input type="button" value="Add Location"/> <input type="button" value="Remove Location"/>

Project Description

This project involves Design Engineering for resurfacing along Rollins Road and Design Engineering for non-motorized transportation improvements along Rollins Road, Cedar Lake Road, and Washington Street within the limits noted above.

In preliminary design the preferred non-motorized transportation alignment will be developed through an alternatives analysis that considers project constraints, geometric design criteria, right-of-way acquisition, environmental considerations, access management, cost, and safety. Public involvement will help ensure a community-supported plan consistent with the project's vision and objectives.

Final design includes preparation of plans, specifications, cost estimate, and agency coordination. Engineer's Project No. 221255.40

Engineering Funding	<input checked="" type="checkbox"/> MFT/TBP <input type="checkbox"/> State <input type="checkbox"/> Other	
Anticipated Construction Funding	<input type="checkbox"/> Federal <input checked="" type="checkbox"/> MFT/TBP <input type="checkbox"/> State <input type="checkbox"/> Other	

AGREEMENT FOR

☒ Phase I - Preliminary Engineering ☒ Phase II - Design Engineering

CONSULTANT

Consultant (Firm) Name Baxter & Woodman, Inc.	Contact Name Adam Woods, PE	Phone Number (815) 444-3303	Email awoods@baxterwoodman.com
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Address	City	State	Zip Code
8430 W. Bryn Mawr Ave.	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:

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

AGREEMENT EXHIBITS

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

- ☒ EXHIBIT A: Scope of Services
- ☒ EXHIBIT B: Project Schedule
- ☒ EXHIBIT C: Direct Costs Check Sheet
- ☒ EXHIBIT D: Qualification Based Selection (QBS) Checklist
- ☒ EXHIBIT E: Cost Estimate of Consultant Services Worksheet (BLR 05513 or BLR 05514)
- ☒ Exhibit F: Manhour Summary
- ☒ Exhibit G: Sub Proposals: HDR, Interra
- ☒ Exhibit H: Wheatland Title Proposal

I. THE ENGINEER AGREES,

- 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.
- 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.
- 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.
- That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
- To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
- 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.
- 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.
- 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.
- 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 Exhibit C).

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 D).
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. This certification is required by the Drug Free Workplace Act (30 ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the DEPARTMENT unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to suspension of contract on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

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

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

- (a) Publishing a statement:
- (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than (5) days after such conviction.
- (b) Establishing a drug free awareness program to inform employees about:
- (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's or contractor's policy to maintain a drug free workplace;
 - (3) Any available drug counseling, rehabilitation and employee assistance program; and
 - (4) The penalties that may be imposed upon an employee for drug violations.
- (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.
- (e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

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

10. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).
11. For Preliminary Engineering Contracts:
- (a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.
 - (b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

AGREEMENT SUMMARY

Prime Consultant	TIN/FEIN/SS Number	Agreement Amount
Baxter & Woodman, Inc.	36-2845242	\$1,070,197.00
Subconsultants	TIN/FEIN/SS Number	Agreement Amount

- HDR	47-0680568	\$686,406.00
- Interra, Inc.	36-4045796	\$126,861.00
Subconsultant Total		\$813,267.00
Prime Consultant Total		\$1,070,197.00
Total for all work		\$1,883,464.00
Add Subconsultant		

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The Local Public Agency Type of Name of Local Public Agency

By (Signature & Date) By (Signature & Date)

Name of Local Public Agency Local Public Agency Type Title

Clerk

(SEAL)

Executed by the ENGINEER:

Attest: Consultant (Firm) Name

By (Signature & Date) 6/9/22 By (Signature & Date) 6/9/22

Title Title

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

Local Public Agency

County

Section Number

Lake County Division of Transportation

Lake

21-00999-82-RS

**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

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	21-00999-82-RS

**EXHIBIT B
PROJECT SCHEDULE**

Aug. 2022:	Notice to Proceed
Feb. 2023:	Virtual Public Forum
July 2023:	Public Meeting
Sept. 2023:	Begin Land Acquisition
Feb. 2024:	Preliminary PS&E
Aug. 2024:	Pre-Final PS&E
Oct. 2024:	Finalize Land Acquisition
Nov. 2024:	Final PS&E
Dec. 2024:	Bid Advertisement
Dec. 2024:	Bid Opening
Jan. 2025:	Start Construction

Lake County Division of Transportation

Lake

21-00999-82-RS

Exhibit C
Direct Costs Check Sheet

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.

Item	Allowable	Quantity	Contract Rate	Total
<input type="checkbox"/> Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			
<input type="checkbox"/> Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			
<input type="checkbox"/> Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			
<input checked="" type="checkbox"/> Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	2920	\$0.58	\$1,708.20
<input checked="" type="checkbox"/> Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	30	\$65.00	\$1,950.00
<input type="checkbox"/> Vehicle Rental	Actual cost (Up to \$55/day)			
<input type="checkbox"/> Tolls	Actual cost			
<input type="checkbox"/> Parking	Actual cost			
<input type="checkbox"/> Overtime	Premium portion (Submit supporting documentation)			
<input type="checkbox"/> Shift Differential	Actual cost (Based on firm's policy)			
<input checked="" type="checkbox"/> Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)	1	\$600.00	\$600.00
<input checked="" type="checkbox"/> Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)	1	\$550.00	\$550.00
<input type="checkbox"/> Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Project Specific Insurance	Actual Cost			
<input type="checkbox"/> Monuments (Permanent)	Actual Cost			
<input type="checkbox"/> Photo Processing	Actual Cost			
<input type="checkbox"/> 2-Way Radio (Survey or Phase III Only)	Actual Cost			
<input type="checkbox"/> Telephone Usage (Traffic System Monitoring Only)	Actual Cost			
<input type="checkbox"/> CADD	Actual cost (Max \$15/hour)			
<input type="checkbox"/> Web Site	Actual cost (Submit supporting documentation)			
<input checked="" type="checkbox"/> Advertisements	Actual cost (Submit supporting documentation)	2	\$2,000.00	\$4,000.00
<input checked="" type="checkbox"/> Public Meeting Facility Rental	Actual cost (Submit supporting documentation)	1	\$400.00	\$400.00
<input checked="" type="checkbox"/> Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)	1	\$1,000.00	\$1,000.00
<input checked="" type="checkbox"/> Recording Fees	Actual Cost	1	\$800.00	\$800.00
<input type="checkbox"/> Transcriptions (specific to project)	Actual Cost			
<input type="checkbox"/> Courthouse Fees	Actual Cost			
<input type="checkbox"/> Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input checked="" type="checkbox"/> Testing of Soil Samples	Actual Cost	1	\$21,500.00	\$21,500.00
<input type="checkbox"/> Lab Services	Actual Cost (Provide breakdown of each cost)			
<input type="checkbox"/> Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			
<input checked="" type="checkbox"/> Title Commitments	Actual Cost	100	\$650.00	\$65,000.00
<input checked="" type="checkbox"/> Traffic Count Processing	Actual Cost	1	\$700.00	\$700.00
<input checked="" type="checkbox"/> IDNR Permit Fee	Actual Cost	1	\$3,460.00	\$3,460.00
<input checked="" type="checkbox"/> PESA Database Research	Actual Cost	1	\$450.00	\$450.00
<input checked="" type="checkbox"/> Drone Fee	Actual Cost	1	\$250.00	\$250.00
Total Direct Costs				\$102,368.20

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	21-00999-82-RS

Exhibit D
Qualification Based Selection (QBS) Checklist

The LPA must complete Exhibit D. If the value meets or will exceed the threshold in 50 ILCS 510, QBS requirements must be followed. Under the threshold, QBS requirements do not apply. The threshold is adjusted annually. If the value is under the threshold with federal funds being used, federal small purchase guidelines must be followed.

☐ Form Not Applicable (engineering services less than the threshold)

Items 1-13 are required when using federal funds and QBS process is applicable. Items 14-16 are required when using State funds and the QBS process is applicable.

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	<input type="checkbox"/>	<input type="checkbox"/>
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	<input type="checkbox"/>	<input type="checkbox"/>
3	Was the scope of services for this project clearly defined?	<input type="checkbox"/>	<input type="checkbox"/>
4	Was public notice given for this project?	<input type="checkbox"/>	<input type="checkbox"/>
5	Do the written QBS policies and procedures cover conflicts of interest?	<input type="checkbox"/>	<input type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input type="checkbox"/>
Project Criteria		Weighting	
-			
Add			
8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input type="checkbox"/>
Selection committee (titles) for this project			
Top three consultants ranked for this project in order			
1			
2			
3			
9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	<input type="checkbox"/>	<input type="checkbox"/>
10	Were negotiations for this project performed in accordance with federal requirements.	<input type="checkbox"/>	<input type="checkbox"/>
11	Were acceptable costs for this project verified?	<input type="checkbox"/>	<input type="checkbox"/>
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	<input type="checkbox"/>	<input type="checkbox"/>
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	<input type="checkbox"/>	<input type="checkbox"/>
14	QBS according to State requirements used?	<input type="checkbox"/>	<input type="checkbox"/>
15	Existing relationship used in lieu of QBS process?	<input type="checkbox"/>	<input type="checkbox"/>
16	LPA is a home rule community (Exempt from QBS).	<input type="checkbox"/>	<input type="checkbox"/>

**LAKE COUNTY DIVISION OF TRANSPORTATION
ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS
PROFESSIONAL ENGINEERING SERVICES
SECTION 21-00999-82-RS**

**EXHIBIT A
SCOPE OF SERVICES**

LOCATION:

The project is located on Rollins Road within the Villages of Round Lake Heights and Round Lake Beach and Washington Street within the Village of Grayslake. The area for improvements includes the following:

<u>Roadway (Resurfacing)</u>	<u>Limits</u>	<u>Length</u>
Rollins Road	Fairfield Road to 110' east of Civic Center Way (The Fairfield Road intersection is included in the project limits)	12,600 FT
Project Omissions	none	

<u>Roadway (Non-Motorized Transportation)</u>	<u>Limits</u>	<u>Length</u>
Rollins Road	Fairfield Road to Hainesville Road	13,200 FT
Cedar Lake Road	300' south of Rollins Road to Rollins Road	300 FT
Washington Street	Chesapeake Boulevard to Atkinson Road	3,400 FT
Project Omissions	Rollins Road (south side) from NE End Avenue to Civic Center Way	1,300 FT

PROJECT UNDERSTANDING:

This project involves Design Engineering for resurfacing along Rollins Road from Fairfield Road to 110' east of Civic Center Way. Rollins Road is primarily a five-lane roadway comprised of four through lanes and a center-turn lane.

This project also involves Design Engineering for non-motorized transportation improvements along Rollins Road, Cedar Lake Road, and Washington Street within the limits noted above. The preferred non-motorized transportation alignment will be developed through an alternatives analysis that considers project constraints, geometric design criteria, right-of-way acquisition, environmental considerations, access management, cost, and safety. Public involvement will help ensure a community-supported plan consistent with the project's vision and objectives.

Rollins Road, Cedar Lake Road, and Washington Street are minor arterials that are under the jurisdiction of the Lake County Division of Transportation (LCDOT). IL Route 83 is a principal arterial under the jurisdiction of Illinois Department of Transportation (IDOT). Along Rollins Road and Cedar Lake Road the project area land use is predominantly commercial with some residential, single-family homes. Along Washington Street the project area land use is predominantly residential, single-family homes.

The following culverts are within the non-motorized transportation improvements but no impacts are anticipated within the scope of the project:

- Rollins Road crossroad culvert 772: Culvert will be inspected and cleaning called out during construction. If cleaning is necessary to perform the inspection it will be provided by LCDOT prior.
- Rollins Road crossroad culvert 773.
- Rollins Road crossroad culvert 774.
- 196" concrete box culvert at Washington Street and IL Route 83.
- Washington Street crossroad culvert 907.

SCOPE OF SERVICES:

1. EARLY COORDINATION AND DATA COLLECTION

- 1.1 *Data Collection:* Obtain, review and evaluate the following information provided by the LPA for use in design:
- A. Preliminary Design CADD files
 - B. Utility Atlases
 - C. Existing Roadway and Structure Plans with Inspection Reports
 - D. GIS Shape files surrounding the project limits
 - E. Aerial Photography
 - F. Environmental Studies
 - G. Maintenance and flooding records
 - H. Drainage Studies
 - I. Hydraulic and Hydrologic information and calculations
 - J. Geotechnical Data
 - K. ROW, GIS and property data
- 1.2 *Field evaluation:* Perform a field evaluation of the condition of existing access, drainage, sidewalk and sidewalk ramps, and guardrail. Observe and photograph the project area and immediate surroundings.
- 1.3 *Traffic Counts:*
- A. Utilize Miovision automated traffic counting technology to obtain 24-hour intersection traffic counts at the following locations:
 - Washington Street at IL Route 83.
- Turning movements, volumes, vehicle classification, and bike and pedestrian counts will be provided at one hour intervals.
- 1.4 *Utility Locates & Coordination:* Contact J.U.L.I.E. to identify utilities that have facilities along the project limits. Request utility atlas maps and plot locations and sizes of existing utilities in electronic drawings. Submit preliminary and final plans to utility companies so conflicts and relocation efforts can be identified. Provide ongoing reviews of permitting and utility relocation efforts as requested by the LA. Prepare "Status of Utilities to be Adjusted" special provision in accordance with IDOT District 1 requirements, which provides the contractor with the duration of utility relocation work, status of utilities to be watched and protected

within the project limits, and pertinent information for the contractor to develop a work schedule to meet the requirements for the project.

2. TOPOGRAPHIC SURVEY

2.1 *Topographic Survey:*

A. Perform topographic survey within the project limits and at 50-foot intervals including driveways and cross streets. Survey from the edge of pavement to the outside. No survey will be performed between the edge of pavements of the existing roadways. The limits of the survey will be:

- Rollins Road: Fairfield Road to Hainesville Road (both sides).
- Cedar Lake Road: 300 feet south of Rollins Road to Rollins Road (both sides).
- Washington Street: Chesapeake Boulevard to Atkinson Road (south side).
- Survey all ADA ramp areas at intersections described under PLAN PREPARATION - below.

Cross section width shall be taken from the edge of pavement to 25 feet outside the estimated proposed right-of-way. All topography will be in compliance with the LCDOT's Design Survey Procedures (Revised 02/22/2021). State plane coordinates and NAVD 88 will be used for horizontal and vertical controls.

- B. *Photos:* Collect photographs along the project route to assist with design drawings and exhibits.
- C. *Structures:* Collect drainage structure condition, inverts, size, and flow direction.
- D. *Tree Survey:* Conduct a survey of trees exceeding 4-inch diameter at breast height 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. Provide a summary of findings and anticipated replacement values.
- E. *Terrain Model:* Download and develop digital terrain model for use in design and plan preparation.
- F. *Right of Way:* Conduct research with the County Recorder's Office to obtain recorded documents, in addition to strip maps provided by LCDOT, for determining the limits of existing right of way and easements.

2.2 *Supplemental Survey:* As approved by the LPA, provide additional topographic survey for areas outside of the original topographic survey limits. These areas may include locations within the existing pavement previously excluded from the original topographic survey, identified compensatory storage concepts, and planned detention facilities.

3. GEOTECHNICAL INVESTIGATION

3.1. *Pavement and Soil Borings:*

A. Utilize Interra to collect 7.5-foot pavement borings at 250-foot spacing on alternating sides of the pavement centerline and obtain topsoil thicknesses at select locations. Provide analysis and recommendations, including subgrade, in a soils report in accordance with IDOT guidelines. Baxter & Woodman will provide a boring and core location map prior to this work. The soil borings will be utilized for the Preliminary Site Investigation and the number of borings necessary will be dependent on the findings of the Preliminary Environmental Site Assessment (69 borings estimated).

- 3.2 *Structure Geotechnical Report (Retaining Wall)*: Utilize Interra to take retaining wall borings at 75-foot intervals along Rollins Road east of Fairfield road (seven borings at 50-foot depth and four borings at 30-foot depth estimated). Prepare a Structure Geotechnical Report for each retaining wall in accordance with the IDOT Bridge Manual and IDOT Geotechnical Manual.

4. TRAFFIC ANALYSIS

- 4.1 *Capacity Analysis*: Complete an intersection capacity analysis (AM & PM) using Highway Capacity Software (HCS) for the Washington Street at IL Route 83 intersection for the following alternatives:
- A. Existing Traffic with Existing Configuration
 - B. Existing Traffic with Proposed Configuration

5. ALTERNATIVES ANALYSIS

- 5.1 *Alternative Geometric Development*: Analyze and schematically develop alternative alignments, configurations, and geometrics to establish the preferred alternative for non-motorized transportation improvements along both sides of Rollins Road, both sides of Cedar Lake Road, and the south side of Washington Street. Review critical cross sections, right-of-way, impacts, and design constraints. Compile alternatives and summarize findings of the analysis with recommendations. A maximum of three Non-Motorized Transportation Alternatives will be developed further for evaluation along segments of non-motorized transportation.
- A. Sidewalk to be placed approximately 1 foot off of the right-of-way.
 - B. 6- to 7-foot carriage walk to be placed at the back of curb.
 - C. No sidewalk to be provided to provide impact comparison.

Develop concept sketches of each alternative and analyze conceptual development of the following items:

- A. Access control
 - B. Programming level cost estimates
 - C. Right of way costs and number of impacted parcels
 - D. Building structure impact alternatives
 - E. Detention, compensatory storage, stormwater BMP's including green infrastructure, and wetland mitigation criteria will be included
- 5.2. *Wall Type Study*: Determine the preferred structure type and geometry for a proposed retaining wall or reinforced soil slope, located on the north and south side of Rollins Road between Fairfield Road and 1100 W. Rollins Road based on findings from the Geotechnical Report, Guardrail Warrant Study and Design (see PLAN PREPARATION). Study will assume daily closures of the outside travel lanes. Summarize alternatives, considerations and recommendations to the LPA for review and approval.
- A. Along the north side of Rollins Road between Fairfield Road and 1100 W. Rollins Road (guardrail located at the face of curb with sidewalk behind).
 - B. Along the north side of Rollins Road between Fairfield Road and 1100 W. Rollins Road (6- to 7-foot carriage walk at the back of curb with barrier behind).

- C. Along the south side of Rollins Road between Fairfield Road and 1100 W. Rollins Road (guardrail located at the face of curb with sidewalk behind)
 - D. Along the south side of Rollins Road between Fairfield Road and 1100 W. Rollins Road (6- to 7-foot carriage walk at the back of curb with barrier behind).
- 5.3. *Guardrail Warrant Study:* Analyze the need for a roadside barrier based on environmental conditions, calculated clear zone, horizontal geometry, cross section slopes, design ADT volumes, and design speed limit. Provide a technical memorandum summarizing the results of the analysis for the alternatives identified in the Wall Type Study.
- 5.4. *Culvert Condition Report:* Perform a field inspection of existing Rollins Road crossroad culvert 772. Evaluate and report any deficiencies including condition, hydraulic analysis, or geometry. Culvert flows used for the hydraulic analysis of the report will be based on USGS StreamStats, this scope of work does not include a hydrological or BFE study of the culvert. Evaluate potential scope of work alternatives; determine the most cost-effective alternative and present recommendations to the County for review and approval.
- 5.5. *Technical Memorandum (Bike Path Feasibility):* Complete a technical memorandum summarizing the findings of the feasibility to construct a bike path along the south side of Washington Street from IL Route 83 to Atkinson Road. Analyze and schematically develop an alignment, configuration, and geometrics. Review critical cross sections, right-of-way, impacts, and design constraints. Summarize findings of the analysis with recommendations.
- 5.6. *Intersection Design Study:* Prepare an Intersection Design Study (IDS) for the Washington Street and IL Route 83 signalized intersection for the proposed pedestrian crossings. Significant intersection improvements are not anticipated.
- A. Prepare a 1 in = 50 ft scale plan view layout of the intersection, including a Capacity Design Analysis table for existing traffic, DHV turning movement diagram, Traffic Data table, property lines, and existing and proposed right of way.
 - B. Prepare profile sheets at a 1 in = 50 ft scale for roadway profiles greater than 1%.
 - C. Prepare Truck Turning Movement sheets at a 1 in = 50 ft scale for the design vehicle using Autoturn design software.
6. PRELIMINARY DESIGN OF PREFERRED ALTERNATIVE
- 6.1. *Preliminary Retaining Structure Design:* Complete a preliminary design for the chosen type of retaining structure, including overall geometry, layout and preliminary sizing/spacing of structural components. Prepare Type, Size and Location (TSL) drawings according to IDOT Bridge Manual Section 2.3, AASHTO LRFD Bridge Design Specifications, and BLRS Chapter 4, submit to IDOT BLRS/BBS for review if necessary.
- 6.2. *ROW Analysis:* Determine the preferred improvement right-of-way requirements and need for acquisition. Recommend and identify necessary temporary construction easements, permanent easements, or right-of-way acquisition to complete the proposed improvements.
- 6.3. *Preferred Alternative Geometric Design:* Develop the preferred improvement plan, profile, and cross sections throughout the project. Identify design constraints including clear zone,

obstructions, drainage limitations, and potential design exceptions. Include development of the following items in the preferred improvement:

- A. Alternative sidewalk
- B. Maintenance of Traffic
- C. Driveways and adjacent intersections
- D. Commercial parking lot reconfigurations and access management
- E. Structure and retaining wall layout
- F. Drainage facilities

7. DRAINAGE ANALYSIS

- 7.1. *Location Drainage Technical Memorandum (LDTM):* Prepare a Location Drainage Technical Memorandum of the project site including an analysis of the existing drainage system, an analysis of existing outlets, an evaluation of the need for storm water detention and compensatory storage, and design of proposed drainage improvements. Identify sensitive outfalls and complete the drainage report in accordance with the 2014 ACEC/IDOT Drainage Seminar requirements and the requirements of the Lake County Watershed Development Ordinance. An LDTM is anticipated at the following locations:
 - 1. Rollins Road and Cedar Lake Road non-motorized transport improvements.
 - 2. Washington Street non-motorized transportation improvements.
- 7.2. *Compensatory Storage:* Design cross sections within 100 feet upstream and downstream of the work within the floodway/floodplain. Compute compensatory storage calculations. Prepare a preliminary grading plan (if needed) showing compensatory storage for work within regulatory wetland and floodplain areas.
- 7.3. *Hydraulic Report:* There are no anticipated impacts to culverts within the floodway. A hydraulic report is not included in the project scope.

8. ENVIRONMENTAL COORDINATION AND PERMITTING

- 8.1. *Environmental Survey:* Prepare the Environmental Survey Request Form and related exhibits. Submit to IDOT to determine potential environmental impacts. Biological, Archeological, and Historical surveys will be performed by the State. Wetland delineation and special waste assessment will be performed by Baxter & Woodman as described below. It is anticipated that IDOT will complete the PESA and PSI, if necessary, as part of improvements along the state highway (IL Route 83).
- 8.2. *Permit Agency Early Coordination:* Initiate coordination with the following regulatory agencies to obtain preliminary design comments:
 - A. Lake County Stormwater Management Commission (LCSMC)
 - B. US Army Corps of Engineers (USACE)
 - C. Illinois Department of Natural Resources (IDNR)
- 8.3. *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.

- 8.4. *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.
 - 8.5. *Wetland Impact Evaluation:* Prepare a wetland report detailing the work within a regulatory wetland, including a description of the wetlands being impacted, avoidance, minimization, and mitigation efforts. Submit to IDOT for review and approval.
 - 8.6. *Wetland Banking Agreement:* Wetland banking fees are not included within this agreement and shall be paid for separately by the LPA.
 - 8.7. *Clean Water Act (Section 404) Permit:* Prepare a Joint Application to the U.S. Army Corps of Engineers (USACE) for work within Waters of the United States. Processing is anticipated under the jurisdiction of the applicable USACE Nationwide Permit.
 - 8.8. *Floodplain/Floodway Permitting:* Submit hydraulic and floodplain information for a floodway construction permit per 3708 rules from the Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR). If existing structures, that are a known source of flooding, will be modified the feasibility of redesigning the structure to reduce the existing backwater will be evaluated per IDNR requirements. Agency review fees are included within this agreement and shall not be paid for separately by the LPA.
 - 8.9. *Watershed Development Permit:* Obtain a watershed development permit as necessary from the Lake County Stormwater Management Commission. Obtaining the permit will include the evaluation of compensatory storage where floodplain fill is expected in areas with a determined Base Flood Elevation (BFE). This scope of work assumes that effective BFEs will be available for all floodplain impacts and does not include BFE determination.
 - 8.10. *NPDES, SWPPP, IEPA:* Complete SWPPP and NOI and obtain NPDES permit from IEPA. Agency review fees are not included within this agreement and shall be paid for separately by the LPA.
 - 8.11. *Fees:* Agency review and permitting fees, wetland banking, and processing through the stormwater variance procedures are not included in this agreement, unless noted above, and shall be paid for separately by the LPA.
9. PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT (PESA)
- 9.1. *Historical Records Review:* Review and document historical data sources for the project area, including aerial photographs, topographic maps, fire insurance maps, County resources, and other readily available development data.
 - 9.2. *Environmental Regulatory Records Review:* Perform a computer search of Federal, State, Tribal, and local government agency records to determine if the Site or adjacent

properties are included within the selected regulatory databases. Based on the results of this query, the Site and its surrounding properties will be evaluated for recognized environmental concerns (REC). Queries will be performed, but not be limited to, the following regulatory databases:

- A. National Priority List (NPL) of Hazardous Waste Sites
- B. Hazardous Waste Treatment, Storage, Disposal Facilities (TSDF)
- C. Underground Storage Tank or Leaking Underground Storage Tank Locations (UST/LUST)
- D. Sanitary Landfill and Solid Waste Sites (SL/SWS)
- E. State Hazardous Waste Sites (SHWS)
- F. CERCLIS sites
- G. Small and Large Quantity Hazardous Waste Generators (RCRIS-SQG/LGG)
- H. RCRA

9.3. *Report Preparation:* Based on Environmental Screening results and site visit, prepare a PESA using the processes described in A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Infrastructure Projects, Second edition, January 2012. Prepare a letter report summarizing the activities and results of the assessment. The report will include pertinent documentation to support the screening results of the assessment. It will also provide a summary of conclusions from the limited information collected. A Preliminary Site Investigation (PSI) will not be included within this scope of work.

9.4. *PESA Response Form:* Prepare a PESA Response Form for IL Route 83 and submit to IDOT for review and approval.

10. PRELIMINARY SITE INVESTIGATION (PSI)

10.1 *Sample Collection:* Collect up to four samples of subsurface soil from site, preserve samples, and transport to environmental laboratory for analytical testing. Laboratory analyses will include BTEX, PNAs, RCRA Metals, TCLIP Metals, SPLP Metals, Soils pH.

10.2 *PSI Report:* Prepare a letter report summarizing the activities and results of the investigation. The report will include pertinent laboratory testing results. It will also provide a summary of conclusions from the information collected and identify which IDOT pay items should be included in the construction documents for disposing of Regulated Substances.

10.3 *Soil Disposal:* Identify any areas from which excavated material may be classified as Clean Construction or Demolition Debris (CCDD) and if applicable prepare an IEPA LPC-663 form. A special provision will be prepared including the names of at least 3 facilities where the soils have been pre-screened for possible disposal (Thelen Materials shall be 1 of 3).

11. RIGHT OF WAY AND BOUNDARY

11.1 *Plat of Highways:* Perform legal surveys and develop plats, legal descriptions and title commitments for a maximum of 100 adjacent parcels of land to be acquired for R.O.W., permanent easements or temporary construction easements. There are 221 total parcels located within the project limits.

- 11.2 *Appraisals:* Employ a real-estate appraiser certified by the DEPARTMENT to prepare a comparable land sales analysis and appraisals for parcels of land to be acquired for right-of-way, permanent easements, or temporary construction easements.

A. *See scope prepared by HDR.*

- 11.3 *Negotiations:* Employ a negotiator certified by DEPARTMENT to negotiate the sale of parcels of land to be acquired for right-of-way, permanent easements, or temporary construction easements. Provide support to the LPA during the ROW acquisition process.

A. *See scope prepared by HDR.*

12. PLAN PREPARATION (IN ACCORDANCE WITH LCDOT PLAN PREPARATION GUIDELINES)

- 12.1 *Estimate of Cost and Time:* Prepare summary of quantities, estimate of time, schedules of materials and an engineer's estimate of cost.

- 12.2 *Specifications:* Prepare special provisions in accordance with LPA guidelines to specify items not covered by the Standard Specifications for Road and Bridge Construction.

- 12.3 *Roadway Design:* Within the resurfacing limits prepare combined removal and plan sheets (1" = 20') for the roadway design including improvement limits; right of way breaks, curb, gutter, and shoulder improvements; driveway repairs; utility structure adjustments; and pavement markings. There will be two window views per sheet with the removals shown on the top window and the roadway plan shown on the bottom window. Patching improvements will not be shown on the plan sheets but rather will be included in the schedule of quantities. Sidewalk improvements will be shown on separate plan and profile sheets. Plan sheets will consist of schematic drawings based on aerial images with the exception of the areas where topographic survey is collected.

- 12.4 *Plan and Profile:* Prepare plan and profile sheets for the non-motorized transportation design including improvement limits, stations and offset callouts, bike path and sidewalk improvements, and note special instructions to the Contractor. The sheets will also include ditch, inlet, culvert and storm sewer design for the proposed improvements and existing utilities. If space allows, drainage schedules will be included on the individual plan and profile sheets.

- 12.5 *Drainage and Utilities Design:* Prepare the ditch, inlet, culvert, and storm sewer design for the proposed improvements. It is assumed that the project outfalls will be maintained and not modified as part of this project. Drainage improvements will be included on the plan and plan and profile sheets.

- 12.6 *Maintenance of Traffic and Construction Staging:* Traffic is anticipated to be maintained along the route at all times. Develop a preferred maintenance of traffic and staging plan and submit to the LPA for comment and approval. Identify the preferred strategy for maintaining traffic and driveway access. Complete a design of the preferred staging plan. Prepare construction staging notes, typical sections, and layout to maintain local roadway and pedestrian traffic flow through the construction zone. Specific staging plans are anticipated

for maintaining existing non-motorized transportation facilities. Confer with LPA staff, emergency services, and public transportation agencies to consider local impacts and concerns.

- 12.7 *Erosion Control Plans:* Prepare an erosion control plan for the improvements with two window views per sheet at 1:50 scale. Prepare a Storm Water Pollution Prevention Plan.
- 12.8 *Structural Plans (Retaining Walls):* Design retaining walls in accordance with the approved TS&L drawings and IDOT Bridge Manual including structural engineering plans, details, and special provisions. May include moment slabs depending on the selected alternative. Submit final structure plans to IDOT District One Bureau of Local Roads and Streets for approval if needed. Pending recommendation from the *Wall Type Study* there is potential for retaining walls at the following locations:
- A. Along the north side of Rollins Road between Fairfield Road and 1100 W. Rollins Road.
 - B. Along the south side of Rollins Road between Fairfield Road and 1100 W. Rollins Road.
 - C. Along the south side of Rollins Road at 843 W. Rollins Road.
- 12.9 *Structural Plans (Pedestrian Railing):* Design pedestrian railings in accordance with the IDOT Bridge Manual, AASHTO LRFD bridge design specifications, and County standards including structural engineering plans, details, and special provisions. Submit final structure plans to IDOT District One Bureau of Local Roads and Streets for approval if needed. Pedestrian railings are anticipated at the following locations:
- A. Along the north side of Rollins Road 300' east of Meadowbrook Drive.
 - B. Along the south side of Rollins Road 300' east of Meadowbrook Drive.
 - C. Along the south side of Washington Street at the concrete culvert east of IL Route 83.
- 12.10 *Structural Plans (Headwall Modification):* Design a headwall modification to extend the existing headwall vertically in accordance with the IDOT Bridge Manual and AASHTO LRFD bridge design specifications, including structural engineering plans, details, and special provisions. Submit final structure plans to IDOT District One Bureau of Local Roads and Streets for approval if needed. Pending recommendation from the *Technical Memorandum (Bike Path Feasibility)* there is potential for headwall modifications at the following locations:
- A. Along the south side of Washington Street at the concrete culvert east of IL Route 83.
- 12.11 *Landscaping Plans:* Prepare landscaping plans with two window views per sheet at 1:50 scale. Tree replacement will be shown on the plans at a mitigation rate of 1:1 where possible.
- 12.12 *Traffic Signal Plans and Interconnect:* Modify the existing traffic signal system to include pedestrian signals at the following locations:
- A. Rollins Road and Fairfield Road
 - B. Rollins Road and Lotus Drive
 - C. Rollins Road and Cedar Lake Road
 - D. Rollins Road and Woodbine Drive

- E. Rollins Road and N Orchard Lane
 - F. Rollins Road and NE End Avenue
 - G. Rollins Road and Civic Center Way
 - H. Rollins Road and Hainesville Road
 - I. Washington Street and IL Route 83
 - J. Washington Street and Atkinson Road
- 12.13 *Cross Section Design:* Design cross sections at 50-foot intervals and all driveways within the non-motorized transportation improvement limits. Compute earthwork calculations. Stage construction earthwork calculations are not anticipated.
- 12.14 *Guardrail Warrant Design:* Design the location, length of need, length and type of barrier, and traffic barrier terminal types for a roadside barrier based upon the findings of the Wall Type Study and Guardrail Warrant Study.
- 12.15 *Detailed Drawings:* Complete required plan sheets required for bidding including:
- A. Cover, General Notes, Summary of Quantities, and Schedule of Quantities.
 - B. Alignment and Tie.
 - C. Typical Sections:
 - I. The proposed pavement design on Rollins Road will include milling 2.25 inches and resurfacing with 0.75-inch HMA polymerized leveling binder and 1.50 inches HMA surface course.
 - II. The 4-inch wide HMA maintenance shelf will be removed wherever sidewalk is installed/exists on the same side of the roadway.
 - III. Sidewalk or bike path will be installed based upon the findings of the alternative analysis. A bike path will only be analyzed along Washington Street from IL-83 to Atkinson Road.
 - D. Baxter & Woodman shall provide a proposed ADA ramp detail template to LCDOT for review to ensure adequate information is provided. Design ADA ramp details at the following locations:

MAIN ROUTE	CROSSROAD	QUADRANT	CONTROL	# DETAILS
ROLLINS	Fairfield Rd	NW, NE, SW, SE	SIGNAL	4
ROLLINS	Lake Shore Dr	SW, SE	STOP SIGN	2
ROLLINS	Brentwood Dr	NW, NE, SW, SE	STOP SIGN	4
ROLLINS	Turnbull Dr	SW, SE	STOP SIGN	2
ROLLINS	Woodridge Dr	SW, SE	STOP SIGN	2
ROLLINS	Lotus Dr	NW, NE, SW, SE	SIGNAL	4
ROLLINS	Deerpath Ct	SW, SE	STOP SIGN	2
ROLLINS	Partridge Ct	SW, SE	STOP SIGN	2
ROLLINS	Meadowbrook Dr	SW, SE	STOP SIGN	2
ROLLINS	Tomahawk Tr	NW, NE	STOP SIGN	2
ROLLINS	Goldenrod Ter	SW, SE	STOP SIGN	2

ROLLINS ROAD RESURFACING
LAKE COUNTY DIVISION OF TRANSPORTATION

ROLLINS	Juneway Ter	SW, SE	STOP SIGN	2
ROLLINS	Channel Dr	SW, SE	STOP SIGN	2
ROLLINS	Pleasant Dr	SW, SE	STOP SIGN	2
ROLLINS	Cedar Lake Rd	NW, NE, SW, SE	SIGNAL	4
ROLLINS	Park Dr	SW, SE	STOP SIGN	2
ROLLINS	Lake Shore Dr	SW, SE	STOP SIGN	2
ROLLINS	Circuit Dr	NW, NE	STOP SIGN	2
ROLLINS	Grove Dr	SW, SE	STOP SIGN	2
ROLLINS	Woodbine Dr	SW, SE	STOP SIGN	2
ROLLINS	Nicole Ln	NW, NE	STOP SIGN	2
ROLLINS	Round lake Dr	SW, SE, Island	STOP SIGN	3
ROLLINS	Hickory Ave	SW, SE	STOP SIGN	2
ROLLINS	Melrose Ave	SW, SE	STOP SIGN	2
ROLLINS	Oak Ave	SW, SE	STOP SIGN	2
ROLLINS	Poplar Ave	SW, SE	STOP SIGN	2
ROLLINS	Orchard Ln	NW, NE, SW, SE	SIGNAL	4
ROLLINS	Elm Ave	SW, SE	STOP SIGN	2
ROLLINS	Hawthorne Dr	SW, SE	STOP SIGN	2
ROLLINS	End Ave	NW, NE, SW, SE	SIGNAL	4
ROLLINS	Shopping Center Ent	SW, SE, Island	NONE	3
ROLLINS	Civic Center Way	NW, NE, SW, SE	SIGNAL	4
ROLLINS	Hainesville Rd	NW, NE, SW, SE	SIGNAL	4
ROLLINS	BMO Harris Bank Ent	SW, SE	STOP SIGN	2
ROLLINS	Taco Bell Ent	NW, NE	STOP SIGN	2
ROLLINS	O'Reilly Auto Parts Ent	NW, NE	STOP SIGN	2
ROLLINS	Bank of The Lakes Ent	NW, NE	STOP SIGN	2
ROLLINS	Supportive Living Ent	NW, NE	STOP SIGN	2
ROLLINS	Shopping Center Ent	NW, NE	STOP SIGN	2
CEDAR LAKE	Walgreens Ent	NW, SW	STOP SIGN	2
WASHINGTON	Chesapeake Blvd	NW, NE, SW, SE	STOP SIGN	4
WASHINGTON	IL 83	NW, NE, SW, SE	SIGNAL	4
WASHINGTON	Atkinson Road	SW, SE	SIGNAL	2
WASHINGTON	Walgreens Ent	NW, NE	STOP SIGN	2
WASHINGTON	First Midwest Bank Ent	NW, NE	STOP SIGN	2

- 12.16 *Contract Plans and Documents:* Preliminary (60%), Pre-final (95%) and Final (100%) submittals are anticipated for this project. Disposition of Comments will be provided for comments received. The following plan sheets are anticipated for this project (number of sheets):
- A. Title Sheet (1)
 - B. General Notes/Standards/Index of Sheets (3)
 - C. Summary of Quantities (12)
 - D. Schedule of Quantities (20)
 - E. Typical Sections (7)
 - F. Alignment, Ties, Benchmarks (10)
 - G. Plat-of-Highway
 - H. Maintenance of Traffic Typical Sections (1)
 - I. Maintenance of Traffic Staging and General Notes (1)
 - J. Maintenance of Traffic Plan (11)
 - K. Erosion Control Plans (8)
 - L. Roadway Plan (double plan view) (25)
 - M. Non-Motorized Transportation Plan & Profile (Plan and double profile view) (29)
 - N. Landscaping Plan (7)
 - O. Traffic Signal (52)
 - P. Structural Plans (14)
 - Q. Sidewalk Ramp Details (56)
 - R. Construction Details (2)
 - S. Lake County / IDOT Construction Details (50)
 - T. Cross Sections (170)

The following contract documents are anticipated for this project:

- A. Special Provisions
- B. Estimate of Time
- C. Opinion of Probable Construction Cost

All submittals are anticipated to be electronic.

13. QA/QC - Perform in-house peer and milestone reviews by senior staff during project initiation, conceptual review, preliminary, pre-final, and final submittals. Provide ongoing reviews of permitting and utility coordination efforts. Conduct milestone reviews of subconsultants and provide feedback throughout the progress of work.

PROJECT COORDINATION AND MANAGEMENT

14. PROJECT MEETINGS AND PUBLIC INVOLVEMENT

- 14.1 *Project Meetings:* The following meetings are anticipated for this project:
- A. LCDOT (2 total in-person) (Alternatives and Preferred Alternative)
 - B. LCDOT (7 total virtual) (Kickoff, Preliminary, Pre-final, 4 miscellaneous)
 - C. Regulatory Agencies (2 total): USACE (2)
 - D. IDOT (2) (Kickoff and Review)
 - E. Public Agency Meetings (6 total): Village of Round Lake Heights and Village of Round Lake Beach (3) joint meetings (kickoff, alternatives, and preferred). Village of Grayslake (3) meetings (kickoff, alternatives, and preferred)

- F. Pace Bus Meeting (1)
- G. Greater Round Lake Fire Protection District (1)
- H. Individual Property Meetings: 1 per impacted parcel (100 total)
 - (i) Exhibits will be created as necessary.
- I. Public Meeting (1)
- J. LCDOT/Geotechnical Meetings (2 – pre bore and post bore)
- K. Utility Coordination Meetings (2 total)
- L. Field Meeting with LPA staff (1)

14.2 *Public Outreach:*

- A. *Virtual Public Forum:* LCDOT will prepare and maintain the Virtual Public Forum. Baxter & Woodman will prepare exhibits, an FAQ, and document comments for LCDOT. Baxter & Woodman will also mail postcards to those immediately adjacent to the project limits and coordinate a newspaper advertisement the day the virtual public forum goes live.
- B. *Public Meetings:* Prepare advertisement, exhibits, handouts, and attend one Public Meeting to present the preferred alternative. Prepare meeting minutes to document public comments. Prepare mailings to property owners identified with land acquisition. Baxter & Woodman will also mail postcards to those immediately adjacent to the project limits and coordinate newspaper advertisements.
- C. *Notification Letters:* Prepare property owners' letters for impacted parcels. This work will be performed in accordance with County and IDOT guidelines.
- D. *Virtual Content:* Prepare Digital Content designed for the purpose of immersive public engagement through website, social media, stakeholder meetings and public informational meetings.
 - i. *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.
 - ii. *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.
 - iii. *3D Renderings:* Develop a three-dimensional model and provide rendered images of the preferred alternative to the LPA.

15. PROJECT MANAGEMENT - Plan, schedule, and control the activities that must be performed to complete the project including budget, schedule, and scope. Coordinate with LPA and project team to ensure the goals of the project are achieved. Prepare and submit monthly invoices, coordinate invoices from sub-consultants, and provide regular updates to the LPA.

16. PHASE III COORDINATION - Attend Pre-Construction meeting. Provide design assistance and support to the LCDOT throughout construction.

17. PROJECT DELIVERABLES

17.1 *Deliverables:* The following is a list of anticipated final deliverables to the LPA for this project:

- A. Electronic DGN, Geopak, Digital Photos, and GIS files used in project development including Plan, Profiles, Cross Sections, Survey, and Exhibits.

- B. Electronic Record of Design files including agency correspondence, Project Development Report content, Drainage Reports and Models, Environmental Reports, Estimates, Exhibits, and related electronic submittals (pdf or as appropriate). Baxter & Woodman utilizes an electronic filing system in lieu of hard copies.
- 17.2 *Not Included:* The following items are not included within the scope of this project, but can be provided as additional services to the contract:
- A. Permit Review fees except as noted in Environmental Coordination and Permitting.
 - B. Wetland Banking Fees.
 - C. Identification of well or septic locations on private property.
 - D. Traffic Counts and Capacity Analysis at intersections not identified above (Washington Street at IL Route 83 is the only current location included).

P:\LCDOT\212340-March 2022 SOIs\Contracts\Rollins\Support\Exhibit A_Rollins_Design Scope of Services.doc



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

21-00999-82-RS

Consultant (Firm) Name

Baxter & Woodman, Inc.

Prepared By

Adam Woods

Date

5/27/2022

PAYROLL ESCALATION TABLE

CONTRACT TERM	30
START DATE	7/1/2022
RAISE DATE	1/1/2023

MONTHS

OVERHEAD RATE	154.70%
COMPLEXITY FACTOR	0
% OF RAISE	2.00%

END DATE 12/31/2024

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	7/1/2022	1/1/2023	6	20.00%
1	1/2/2023	1/1/2024	12	40.80%
2	1/2/2024	1/1/2025	12	41.62%

The total escalation = 2.42%

Lake County Division of Transp	Lake	21-00999-82-RS
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MAXIMUM PAYROLL RATE	78.00
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ESCALATION FACTOR	2.42%
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PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Executive Vice President	\$85.60	\$78.00
Vice President	\$73.36	\$75.13
Engineer VII	\$65.71	\$67.30
Engineer VI	\$66.42	\$68.02
Engineer V	\$60.73	\$62.20
Engineer IV	\$50.10	\$51.31
Engineer III	\$41.02	\$42.01
Engineer II	\$36.38	\$37.26
Engineer I	\$31.93	\$32.70
Environ. Scientist V	\$56.63	\$58.00
Natural Resources Mngr.	\$48.50	\$49.67
Engineer Tech V	\$51.72	\$52.97
Engineer Tech IV	\$45.28	\$46.37
Engineer Tech III	\$36.95	\$37.84
Engineer Tech II	\$29.13	\$29.83
Engineer Tech I	\$24.67	\$25.27
Spatial Tech. Manager	\$58.25	\$59.66
Spatial Tech. Prof. III	\$42.00	\$43.01
Spatial Tech. Prof. II	\$32.58	\$33.37
Survey Manager	\$44.00	\$45.06
Project Surveyor	\$37.00	\$37.89
Survey Tech.	\$22.50	\$23.04
CADD Technician III	\$43.88	\$44.94
Marketing Prof. IV	\$43.00	\$44.04
Marketing Prof. III	\$33.35	\$34.16
Admin. Support IV	\$40.00	\$40.97
Admin. Support III	\$29.75	\$30.47

Lake County Division of Transportation

Lake

21-00999-82-RS

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

Total

127,209.00

12,720.90

Lake County Division of Transportation

Lake

21-00999-82-RS

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE	154.70%
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COMPLEXITY FACTOR 0

845,555

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

21-00999-82-RS

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Early Coordination and Data Collection			Topographic Survey			Geotechnical Investigation			Traffic Analysis			Alternative Analysis		
		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	78.00	0.0																	
Vice President	75.13	0.0																	
Engineer VII	67.30	20.0	0.27%	0.18															
Engineer VI	68.02	4.0	0.05%	0.04															
Engineer V	62.20	351.0	4.65%	2.89													64	12.96%	8.06
Engineer IV	51.31	1,450.0	19.22%	9.86	9	11.25%	5.77										18	3.64%	1.87
Engineer III	42.01	2,127.0	28.19%	11.84													251	50.81%	21.35
Engineer II	37.26	1,473.0	19.52%	7.27	45	56.25%	20.96				4	40.00%	14.90	6	100.00%	37.26	56	11.34%	4.22
Engineer I	32.70	170.0	2.25%	0.74	6	7.50%	2.45												
Environ. Scientist V	58.00	14.0	0.19%	0.11															
Natural Resources Mngr.	49.67	4.0	0.05%	0.03				2	0.55%	0.27									
Engineer Tech V	52.97	0.0																	
Engineer Tech IV	46.37	20.0	0.27%	0.12	20	25.00%	11.59												
Engineer Tech III	37.84	0.0																	
Engineer Tech II	29.83	95.0	1.26%	0.38				20	5.49%	1.64									
Engineer Tech I	25.27	0.0																	
Spatial Tech. Manager	59.66	0.0																	
Spatial Tech. Prof. III	43.01	0.0																	
Spatial Tech. Prof. II	33.37	0.0																	
Survey Manager	45.06	140.0	1.86%	0.84				140	38.46%	17.33									
Project Surveyor	37.89	146.0	1.93%	0.73				140	38.46%	14.57	6	60.00%	22.74						
Survey Tech.	23.04	0.0																	
CADD Technician III	44.94	1,431.0	18.96%	8.52				60	16.48%	7.41							105	21.26%	9.55
Marketing Prof. IV	44.04	0.0																	
Marketing Prof. III	34.16	90.0	1.19%	0.41															
Admin. Support IV	40.97	0.0																	
Admin. Support III	30.47	11.0	0.15%	0.04				2	0.55%	0.17									
TOTALS		7546.0	100%	\$43.99	80.0	100.00%	\$40.78	364.0	100%	\$41.39	10.0	100%	\$37.64	6.0	100%	\$37.26	494.0	100%	\$45.05

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

21-00999-82-RS

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Preliminary Design of Preferred Alternative			Drainage Analysis			Environmental Coordination and Permitting			Preliminary Environmental Site Assessment (PESA)			Preliminary Site Investigation (PSI)			Right of Way and Boundary		
		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	78.00																		
Vice President	75.13																		
Engineer VII	67.30																		
Engineer VI	68.02																		
Engineer V	62.20	56	17.72%	11.02															
Engineer IV	51.31	20	6.33%	3.25	130	34.12%	17.51	50	22.62%	11.61							350	54.69%	28.06
Engineer III	42.01	144	45.57%	19.14													40	6.25%	2.63
Engineer II	37.26	62	19.62%	7.31	251	65.88%	24.55	92	41.63%	15.51	8	11.76%	4.38						
Engineer I	32.70										48	70.59%	23.08	76	84.44%	27.61			
Environ. Scientist V	58.00										8	11.76%	6.82	6	6.67%	3.87			
Natural Resources Mngr.	49.67							2	0.90%	0.45									
Engineer Tech V	52.97																		
Engineer Tech IV	46.37																		
Engineer Tech III	37.84																		
Engineer Tech II	29.83							75	33.94%	10.12									
Engineer Tech I	25.27																		
Spatial Tech. Manager	59.66																		
Spatial Tech. Prof. III	43.01																		
Spatial Tech. Prof. II	33.37																		
Survey Manager	45.06																		
Project Surveyor	37.89																		
Survey Tech.	23.04																		
CADD Technician III	44.94	34	10.76%	4.84										5	5.56%	2.50	250	39.06%	17.55
Marketing Prof. IV	44.04																		
Marketing Prof. III	34.16																		
Admin. Support IV	40.97																		
Admin. Support III	30.47							2	0.90%	0.28	4	5.88%	1.79	3	3.33%	1.02			
TOTALS		316.0	100%	\$45.56	381.0	100%	\$42.05	221.0	100%	\$37.97	68.0	100%	\$36.08	90.0	100%	\$34.99	640.0	100%	\$48.24

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

21-00999-82-RS

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Plan Preparation			QA/QC			Project Meetings and Public Involvement			Project Management			Phase III Coordination					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Executive Vice President	78.00																		
Vice President	75.13																		
Engineer VII	67.30				20	31.25%	21.03												
Engineer VI	68.02							4	0.44%	0.30									
Engineer V	62.20	187	5.04%	3.14	44	68.75%	42.76												
Engineer IV	51.31	223	6.01%	3.08				474	52.09%	26.73	150	100.00%	51.31	26	61.90%	31.76			
Engineer III	42.01	1540	41.51%	17.44				136	14.95%	6.28				16	38.10%	16.00			
Engineer II	37.26	863	23.26%	8.67				86	9.45%	3.52									
Engineer I	32.70							40	4.40%	1.44									
Environ. Scientist V	58.00																		
Natural Resources Mngr.	49.67																		
Engineer Tech V	52.97																		
Engineer Tech IV	46.37																		
Engineer Tech III	37.84																		
Engineer Tech II	29.83																		
Engineer Tech I	25.27																		
Spatial Tech. Manager	59.66																		
Spatial Tech. Prof. III	43.01																		
Spatial Tech. Prof. II	33.37																		
Survey Manager	45.06																		
Project Surveyor	37.89																		
Survey Tech.	23.04																		
CADD Technician III	44.94	897	24.18%	10.87				80	8.79%	3.95									
Marketing Prof. IV	44.04																		
Marketing Prof. III	34.16							90	9.89%	3.38									
Admin. Support IV	40.97																		
Admin. Support III	30.47																		
TOTALS		3710.0	100%	\$43.19	64.0	100%	\$63.79	910.0	100%	\$45.59	150.0	100%	\$51.31	42.0	100%	\$47.77	0.0	0%	\$0.00

EXHIBIT F

ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS LAKE COUNTY DIVISION OF TRANSPORTATION ENGINEERING SERVICES - HOUR SUMMARY

	Task Hours	Total Hours
1- EARLY COORDINATION AND DATA COLLECTION		
Data Collection:	20	
Field Evaluation		
NMT and Drainage Evaluation (3 days)	20	
Guardrail Review (1 day)	4	
Traffic Counts		
24 hour traffic count installation (2 visits x 3 hrs)	6	
Utility Coordination	30	
Total task manhours		80
2- TOPOGRAPHIC SURVEY		
Topographic Survey		
Field Work (19 day 1 person control, 5 days 2 person)	240	
Right-of-Way Determination	8	
Tree Survey	24	
CADD Processing & Management (SS4 model)	60	
Supplemental Survey (2 day 2 person)	32	
Total task manhours		364
3- GEOTECHNICAL INVESTIGATION		
Coordination	4	
Survey Boring Locations	6	
Total task manhours		10
4- TRAFFIC ANALYSIS		
Capacity Analysis at Washington Street and IL Route 83	6	
Total task manhours		6
5- ALTERNATIVE ANALYSIS		
Alternative Geometric Development		
Establish Logical Segments	16	
Geometric Design (2 Proposed Alternatives x 15 Segments x 6 hrs per segment)	180	
Impact Analysis (2 Proposed Alternatives x 15 Segments x 2 hrs per segment)	60	
Wall Type Study		
North Side of Rollins Road	66	
South Side of Rollins Road	32	
Guardrail Warrant Study (4 studies at 4 hrs per study)	16	
Culvert Condition Report	20	
Technical Memorandum (Bike Path Feasibility)		
Geometric Development	16	
Technical Memorandum	8	
Intersection Design Study (IDS) at Washington Street and IL Route 83	80	
Total task manhours		494

EXHIBIT F

ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS LAKE COUNTY DIVISION OF TRANSPORTATION ENGINEERING SERVICES - HOUR SUMMARY

	Task Hours	Total Hours
6- PRELIMINARY DESIGN OF PREFERRED ALTERNATIVE		
Preliminary Retaining Structure Design		
Preliminary Design / TS&L	72	
IDOT Coordination	8	
ROW Analysis (100 parcels @ 1 hr/parcel)	100	
Preferred Alternative Geometric Design		
NMT Geometry (Double Plan View on aerial (14 sheets - 1"=20' @ 6 hrs/sheet))	84	
Commercial Parking Lots and Access Management	40	
Estimate of Cost and Schedule	12	
Total task manhours		316
7- DRAINAGE ANALYSIS		
Location Drainage Technical Memorandum (LDTM)		
Existing Drainage System		
Site Visit Drainage Engineer	6	
Existing Drainage Plan	65	
Identified Drainage Problems	6	
Outlet Evaluation	10	
Existing Drainage System Analysis	36	
Hydrologic Analysis	12	
Proposed Drainage System		
Preliminary Drainage Design	40	
Storm Sewer, Culvert, and Ditch Sizing	30	
Stormwater Detention	20	
Proposed Drainage Plan and Profile on aerial (14 sheets - 1"=20' @ 8 hrs/sheet))	112	
Narrative/Exhibits	24	
Compensatory Storage (2 sites at 10 hrs per site)	20	
Total task manhours		381
8- ENVIRONMENTAL COORDINATION AND PERMITTING		
Environmental Survey Request (6 sheets @ 6 hrs/sheet)	36	
Permit Agency Early Coordination		
Lake County Stormwater Management Commission (LCSMC)	4	
US Army Corps of Engineers (USACE)	4	
Illinois Department of Natural Resources (IDNR)	4	
Special Waste Screening	4	
Wetland Delineation and Report	79	
Wetland Impact Evaluation (8 sheets @ 4 hrs/sheet)	32	
USACE National Permit		
Joint Application	4	
Narrative	8	
Exhibits	8	
USFWS Consultation/Memorandum	4	
Report Assembly	4	
Floodplain / Floodway Permitting	10	
Watershed Development Permit Application	10	
NPDES, SWPPP, IEPA	10	
Total task manhours		221

EXHIBIT F

ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS
LAKE COUNTY DIVISION OF TRANSPORTATION
ENGINEERING SERVICES - HOUR SUMMARY

	Task Hours	Total Hours
9- PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT (PESA)		
Preliminary Environmental Site Assessment (PESA)		
Historical Records Review	4	
Environmental Regulatory Records Review	16	
Report preparation	40	
PESA Response Form	8	
Total task manhours		68
10- PRELIMINARY SITE INVESTIGATION (PSI)		
Preliminary Site Investigation (PSI)		
Sample Collection (69 samples)	52	
PSI Report	32	
Soil Disposal	6	
Total task manhours		90
11- RIGHT OF WAY AND BOUNDARY		
Plat of Highways		
Plat, Legal Description, and Title Commitment Prep (100 parcels)	195	
Plat of Highway Preparation	385	
Negotiation Coordination and Assistance	60	
Total task manhours		640

EXHIBIT F

ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS LAKE COUNTY DIVISION OF TRANSPORTATION ENGINEERING SERVICES - HOUR SUMMARY

	Task Hours	Total Hours
12- PLAN PREPARATION		
Roadway Design		
Resurfacing Double Plan View on aerial (25 sheets - 1"=20' @ 18 hrs/sheet)		
Removals Shown on Top - Roadway Plans on Bottom	450	
Guardrail Design	6	
NMT Plan & Profile & Profile (29 sheets - 1"=20' @ 20 hours/sheet)	580	
Drainage and Utilities Design (included in Roadway Design)		
Maintenance of Traffic Resurfacing Section		
Single Panel Plan sheets (5 sheets - 1"=100' at 5 hours/sheet)	25	
Maintenance of Traffic NMT Section		
Stage Notes (1 sheet)	4	
Typical Sections (1 sheets at 8 hours/sheet)	8	
Double Panel Plan sheets (6 sheets - 1"=20' at 10 hours/sheet)	60	
Erosion Control Plans		
Erosion Control Plan Notes	8	
Double Panel Plan sheets (7 Sheets -1"=50' at 12 hours/sheet)	84	
Structural Plans (Retaining Walls)	206	
Structural Plans (Pedestrian Railing)	25	
Structural Plans (Headwall Modification)	41	
Landscaping Plans (7 Sheets -1"=50' at 10 hours/sheet)	70	
Traffic Signal Plans		
Traffic Signal Plan (2 sheets at 10 hours/sheet)		
Cable Diagram Plan (1 sheet at 10 hours/sheet)		
Schedule of Quantities (1 sheet at 2 hours/sheet)		
Rollins Road and Cedar Fairfield Road	32	
Rollins Road and Lotus Drive	32	
Rollins Road and Cedar Lake Road	32	
Rollins Road and Woodbine Drive	32	
Rollins Road and N Orchard Lane	32	
Rollins Road and NE End Avenue	32	
Rollins Road and Civic Center Way	32	
Rollins Road and Hainesville Road	32	
Washington Street and IL Route 83	32	
Washington Street and Atkinson Road	32	
Cross Section Design		
Rollins Road (582 cross sections @ 1.5 hrs/section)	873	
Cedar Lake Road (16 cross sections @ 1.5 hrs/section)	24	
Washington Street (68 cross sections @ 1.5 hrs/section)	102	
Detailed Drawings		
Cover Sheet	4	
General Notes	4	
Summary of Quantities (12 sheets @ 1 hrs/sheet)	12	
Schedule of Quantities (20 sheets at 6 hours/sheet)	120	
Typical Sections (7 sheets @ 8 hrs/sheet)	56	
Alignment, Ties, Benchmarks (10 sheets at 12 hours/sheet)	120	
ADA Ramp Details (112 @ 4 hrs/detail)	448	
Estimate of Cost and Time	20	
Specifications	40	
Total task manhours		3710
13- QA/QC		
Review of milestone Submittals	64	
Total task manhours		64

EXHIBIT F

ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS LAKE COUNTY DIVISION OF TRANSPORTATION ENGINEERING SERVICES - HOUR SUMMARY

	Task Hours	Total Hours
14- PROJECT MEETINGS AND PUBLIC INVOLVEMENT		
Project Meetings (2 staff members @ 4 hrs/meeting)		
LCDOT In-Person (2) (Alternatives and Preferred Alternative)	16	
Public Meeting (1)	8	
Project Meetings (2 staff members @ 1 hrs/meeting)		
LCDOT Virtual (7) (Kickoff, Preliminary, Pre-final, 4 Miscellaneous)	14	
Project Meetings (1 staff members @ 4 hrs/meeting)		
Regulatory Agencies (2) (USACE)	8	
IDOT (2) (Kickoff and Review)	8	
Village of Round Lake Heights and Village of Round Lake Beach		
(3) joint meetings (kickoff, alternatives, and preferred).	12	
Village of Grayslake (3) joint meetings		
(kickoff, alternatives, and preferred).	12	
Pace Bus Meeting (1)	4	
Greater Round Lake Fire Protection District (1)	4	
Individual Property Meetings (Includes Exhibit Preparation):		
1 per impacted parcel (100 total)	400	
LCDOT/Geotechnical Meetings (2 – pre bore and post bore)	8	
Utility Coordination Meetings (2 total)	8	
Field Meeting with LPA staff (1)	4	
Public Outreach		
Virtual Public Forum		
Exhibits	80	
Postcards	16	
Newspaper Advertisement	5	
Public Meeting		
Exhibits	60	
Postcards	16	
Newspaper Advertisement	5	
Minutes/Court Reporter	20	
Staff Attendance at Dry Run Meetings (2) (2 staff members @ 5 hrs/meeting)	20	
Address Public Comments	32	
Notification Letters	40	
Virtual Content	110	
Total task manhours		910
15- PROJECT MANAGEMENT		
Administration - 4 hrs/month at 36 months	144	
Coordination with IDOT	6	
Total task manhours		150
16- PHASE III COORDINATION		
Pre-construction Meeting	2	
RFI Responses	40	
Total task manhours		42
TOTALS	7546	7546

Lake County Division of Transportation

**ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL
(NMT) IMPROVEMENTS**

HDR Engineering, Inc.

Scope of Services

May 25, 2022

The project is located on Rollins Road within the Villages of Round Lake Heights and Round Lake Beach and Washington Street within the Village of Grayslake.

The project involves resurfacing along Rollins Road from Fairfield Road to east of Civic Center Way. Rollins Road is primarily a five-lane roadway comprised of four through lanes and a center-turn lane. This project also involves design engineering non-motorized transport along Rollins Road, Cedar Lake Road, and Washington Street within the limits noted above. Rollins Road, Cedar Lake Road, and Washington Street are minor arterials that are under the jurisdiction of the Lake County Division of Transportation (LCDOT). Along Rollins Road and Cedar Lake Road the project area land use is predominantly commercial with some residential, single-family homes. Along Washington Street the project area land use is predominantly residential and single-family homes.

Baxter & Woodman (B&W) is requesting HDR provide land acquisition services to Lake County Division of Transportation (LCDOT) to complete the project. B&W has informed HDR that there are 100 parcels. HDR's land acquisition tasks will include the following:

- 1.0 Project Management & Administration Services
- 2.0 Title Commitments Review Services
- 3.0 Appraisal Coordination Services
- 4.0 Negotiation Services
- 5.0 Condemnation Support Services (Pre-Hearing Support)

SCOPE OF SERVICE REQUIREMENTS OF HDR:

Tasks 1.0 through 5.0 will be completed for up to 100 parcels.

1.0 PROJECT MANAGEMENT AND ADMINISTRATIVE SERVICES

HDR will perform the following services related to project management and administration:

- 1.1 HDR Monthly Project Maintenance: perform financial reviews, maintain document control, oversight of BI dashboard and Pronto process, accounting tasks for monthly billing to B&W.
- 1.2 The HDR Project Manager will attend 1 project kick-off meeting with B&W and LCDOT, either in-person or virtual.
- 1.3 Maintain communication with B&W throughout the course of the project.
- 1.4 Maintain land acquisition status report and provide to B&W on a bi-weekly basis or upon request.
- 1.5 Prepare QAQC checklists for offer packages and 60-Day Notices.
- 1.6 Attend up to 5 virtual meetings throughout course of the project with B&W and LCDOT to discuss land acquisition items.

2.0 TITLE REVIEW SERVICES

HDR will perform the following services related to title reviews:

- 2.1 Review title commitments and supporting documentation provided by B&W.
- 2.2 Prepare a title curative report for each title commitment/parcel.
- 2.4 Request additional supporting title documentation and or later date title commitments.

3.0 APPRAISAL COORDINATION SERVICES

HDR will perform the following services related to appraisal coordination:

- 3.1 HDR will contract directly with an appraiser to provide appraisal services.
- 3.2 Order and monitor completion of appraisal reports.
- 3.3 Conduct QAQC on appraisal reports before submittal to B&W.
- 3.4 Submit completed appraisal reports to B&W for LCDOT review and approval.
- 3.5 Revisions to appraisal reports will be completed by the appraiser in a timely manner.

4.0 NEGOTIATION SERVICES

HDR will perform the following services related to negotiations.

- 4.1 Research and identify contact information for property owners.
- 4.2 Prepare a negotiator contact report for each parcel and update report for each contact made with the property owner.
- 4.3 Analyze title commitments, Plats of Highways, and appraisal reports prior to making the offers.
- 4.4 Prepare offer package for each parcel. QAQC reviews will be performed on each offer package. Any revisions that are required will be completed before packages are mailed out to property owners.
- 4.5 An offer package will be sent to each property owner or the property owner's designated representative via Certified Mail-Return Receipt Requested (CMRRR) and regular first-class mail. Retain copies of signed and unsigned CMRRR receipts.
- 4.6 Contact property owners to discuss the offer package and answer questions about the project. Advise property owners on the counteroffer process. Secure necessary conveyance documents upon acceptance of the offer.
- 4.7 Weekly meetings with acquisition agents to discuss status for each parcel, discuss property owner concerns/requests, and review counteroffers.
- 4.8 If a settlement cannot be reached with a property owner 30-days after making the original offer, a 60-Day Notice will be prepared and sent to the property owner or designated representative through CMRRR.
- 4.9 Submit 1 copy of the signed offer documents to B&W for LCDOT review and approval. For parcels where partial acquisitions are required, HDR will send the original signed offer documents to the title company for closing.
- 4.10 For parcels that require only temporary construction easements, HDR will record the original signed easement document at the Lake County Recorder's Office.

5.0 CONDEMNATION SUPPORT SERVICES (PRE-HEARING)

HDR will perform the following services related to condemnation support:

- 5.1 If a settlement agreement cannot be reached with a property owner 90 days after making the original offer, HDR will refer the parcel to condemnation.
- 5.2 Upon request from LCDOT, HDR will prepare a condemnation package and submit to B&W.

ASSUMPTIONS:

- Appraisal Review Reports are not anticipated for this project per B&W.
- Coordination with IDOT is not anticipated for this project per B&W.
- Title commitments shall be ordered by B&W and provided to HDR.
- All title commitment costs shall be at the expense of B&W.
- Plats of Highways and other Right-of-Way Exhibits shall be provided to HDR by B&W.
- All title company costs necessary to close each parcel transaction shall be at the expense of LCDOT.

SCHEDULE:

- Land acquisition services shall start upon receiving Notice to Proceed (NTP) from B&W and will commence for 24-months from issuance of NTP.

COST:

- Total cost is \$686,406.00. This cost includes the services and associated direct costs outlined in this scope plus appraisal services.

COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

Local Public Agency

B&W Lake County IL Rollins Road

County

Lake

Section Number

TBD

Consultant (Firm) Name

HDR Engineering, Inc.

Prepared By

Ggarcia

Date

5/25/2022

PAYROLL ESCALATION TABLE

CONTRACT TERM	24
START DATE	9/1/2022
RAISE DATE	1/1/2023

MONTHS

OVERHEAD RATE	154.88%
COMPLEXITY FACTOR	0
% OF RAISE	2.00%

END DATE 8/31/2024

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	9/1/2022	1/1/2023	4	16.67%
1	1/2/2023	1/1/2024	12	51.00%
2	1/2/2024	9/1/2024	8	34.68%

The total escalation = 2.35%

MAXIMUM PAYROLL RATE 78.00

ESCALATION FACTOR	2.35%
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PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

[illegible]

B&W Lake County IL Rollins Road

Lake

TBD

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

COMPLEXITY FACTOR 0

280,978

Printed 5/26/2022 7:01 AM



5/26/2021

Mr. Adam Woods, PE
Baxter & Woodman Consulting Engineers
8678 Ridgefield Rd.
Crystal Lake, IL 60012

Cost Estimate
Geotechnical Investigation
PROFESSIONAL ENGINEERING SERVICES
Lake County Division of Transportation
Rollins Road Resurfacing
Burr Ridge, Illinois

Dear Mr. Woods:

Interra, Inc. (INTERRA) is pleased to submit this cost estimate to perform geotechnical subsurface soil exploration for the above referenced project in Villages of Round Lake Heights, Round Lake Beach and Grayslake, Illinois. We understand that the proposed improvements that would require geotechnical investigation consist of sidewalk construction along Rollins Road, Cedar Lake Road and along Washington Street. Two retaining walls are also proposed along Rollins Road.

Proposed Scope of Work

Our scope of work includes:

- 69 Sidewalk subgrade soil borings to a depth of 7.5 feet each.
- 7 Retaining Wall soil borings to a depth of 50 feet each.
- 4 Retaining Wall soil borings to a depth of 30 feet each.

Field Work

The borings will be located in the field by the Baxter & Woodman's (CLIENT) survey crew and coordinates and elevations will be provided to INTERRA. The location of the borings will be

decided by the CLIENT and will be adjusted based on field conditions, accessibility and utility conflicts.

It is our understanding that all the soil borings will be located off the pavement. The borings are expected in the shoulder or green areas. Traffic control is not expected for the sidewalk borings. Traffic control is expected for the retaining wall borings. Signage and/or flaggers will be utilized as needed to ensure safety of the crew and traffic.

The borings will be drilled with a truck-mounted drill rig. Soil sampling will be performed per AASHTO T-206, "Penetration Test and Split Barrel Sampling of Soils". Observation for groundwater will be made during and immediately after the completion of the drilling. After the completion of the drilling, the boreholes will be backfilled with the soil auger cuttings from the same borehole.

Field testing involves performing unconfined compressive strength tests using a RIMAC tester/pocket penetrometer on cohesive soil samples.

We understand that Baxter & Woodman will collect samples for environmental testing purposes from the geotechnical soil borings.

Laboratory Work

Laboratory testing includes moisture content tests on all soil samples. Laboratory unconfined compressive strength, Atterberg Limits and Grain Size Analysis tests will be performed on selected soil samples from structure borings. Atterberg Limits and Grain Size Analysis tests will be performed on selected soil samples from sidewalk borings. Organic content tests may be performed on selected soil samples.

Deliverables

The reports will be prepared in general accordance with IDOT Geotechnical Manual guidelines.

Deliverable reports are listed below:

- Geotechnical Report for Sidewalk
- Separate Structure Geotechnical Reports (SGR) for each retaining walls that needs a TSL.
- One SGR for all remaining retaining walls.

Cost Estimate

The cost to provide the above mentioned services is provided in the attached CECS and Direct Costs estimate. If the scope of work is increased or decreased, the final invoice amount will be calculated according to the unit rates in the attached CECS and Direct Costs estimate.

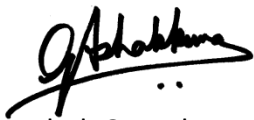
Schedule

The fieldwork could be started within two to three weeks of receiving authorization to proceed. We anticipate the fieldwork to be completed in 15 working days. Pre-drilling meeting or conference call will be conducted. The draft geotechnical report will be issued within three weeks of completion of field work. Final geotechnical report will be issued within one week after receiving review comments.

INTERRA very much appreciates the opportunity to submit this proposal. Should you at any time require any additional information or clarifications, please do not hesitate to call us.

Very truly yours,

Interra, Inc.



Ashok Guntaka, EI
Project Engineer



Sanjeev Bandi, Ph.D., P.E.
Project Manager



EXHIBIT E
COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET
FIXED RAISE

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number

21-00999-82-RS

Consultant (Firm) Name

Interra, Inc.

Prepared By

Ashok Guntaka

Date

5/26/2022

PAYROLL ESCALATION TABLE

CONTRACT TERM	24
START DATE	7/1/2022
RAISE DATE	1/1/2023
END DATE	6/30/2024

MONTHS

OVERHEAD RATE	144.85%
COMPLEXITY FACTOR	0
% OF RAISE	2.00%

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	7/1/2022	1/1/2023	6	25.00%
1	1/2/2023	1/1/2024	12	51.00%
2	1/2/2024	7/1/2024	6	26.01%

The total escalation = 2.01%

BLR 05514 (Rev. 04/30/21)
Payroll Escalation

Lake County Division of Transportation

Lake

Section Number

21-00999-82-RS

MAXIMUM PAYROLL RATE 78.00

ESCALATION FACTOR	2.01%
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PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

[illegible]

Local Public Agency

County

Section Number

Lake County Division of Transportation

Lake

21-00999-82-RS

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Geotechnical Report														
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Administrative Assistant	26.54	2.0	0.53%	0.14	2	0.53%	0.14												
Staff Engineer	38.76	277.0	74.06%	28.71	277	74.06%	28.71												
Project Engineer	49.98	36.0	9.63%	4.81	36	9.63%	4.81												
Sr. Project Manager	69.80	27.0	7.22%	5.04	27	7.22%	5.04												
Principal Engineer	78.00	32.0	8.56%	6.67	32	8.56%	6.67												
		0.0																	
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TOTALS		374.0	100%	\$45.38	374.0	100.00%	\$45.38	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

PTB NUMBER: **21-00999-82-RS**

TODAY'S DATE: **5/26/2022**

**If other allowable costs are needed and not listed, please add in the above spaces provided.*

LEGEND

W.O. = Work Order

J.S. = Job Specific

Estimate of Effort (Field and Report)

69 sidewalk borings at 7.5 feet each
 7 retaining wall borings at 50 feet each
 4 retaining wall borings at 30 feet each
 Roadway Geotechnical Report for Sidewalk
 Structure Geotechnical Reports for Retaining Walls

Item No.	Item Description	Category	Admin Asst	Staff Engr/ Geologist	Proj Engr	Sr. Proj Engr	Project Manager Sr. Project Manager	Principal Engineer	Total Hours	Vehicle	Remarks
1	Administrative Support	Report	2						2		
2	Site reconnaissance and access checks	Field		16					16	2	
3	Utility Clearances and Joint Meets	Field		8					8	1	
4	Pre-Drilling meeting	Field		1			1		2		
5	Drilling Geologist/Field Engineer	Field		150					150	10	
6	Report - Pavement Cores	Report							0		
7	Report - Soil Boring Logs	Report		42			2		44		
8	Report - Soil Profile Sheets	Report		24			2		26		
9	Sidewalk Geotechnical Report	Report		20	20		2	8	50		
10	Structure Geotechnical Report	Report		16	16		2	16	50	0.5	
11	Peer Review of Geotechnical Reports	Report						4	4		
12	Meetings	Report					1	1	2		
13	Comments Review Report changes & Disposition	Report					1	3	4		
14	Project Management and Coordination	Report					16		16	0.5	
Totals			2	277	36	0	27	32	374	14	
		Field	0	175	0	0		0	176		
		Report	2	102	36	0		32	198		

Estimate of Effort (Lab)

Item No.	Feature	Type	Location	Boring Depth	Quantity	Total Depth	Split Spoon	Shelby Tube	Bulk Sample	Pavement Core Analysis Thickness & Photos	Moisture Content	Unconfined	Atterberg Limits	Grainize Analysis	Percent Fines	Organic Content	Standard Proctor	IBR	Unit Weight	Specific Gravity	Consolidation	UU Triaxial	Resistivity, pH, Sulfate, Chloride
1	Sidewalk	Subgrade Borings	Rollins Road, Cedar Lake Rd, Washington St	7.5	69	517.5	207	0	0		207		9	9		5							
2	Retaining Wall	Structure Borings	Rollins Road	50	7	350	112	7	0		119	7	7	7									
1	Retaining Wall	Structure Borings	Rollins Road	30	4	120	48	4	0		52	4	4	4									
Totals				80	80	987.5	367	11	0	0	378	11	20	20	0	5	0	0	0	0	0	0	0



WHEATLAND
TITLE COMPANY

EXHIBIT H

105 West Veterans Parkway, Yorkville, IL

60560

Phone: 630-892-2323

Fax: 630-892-2390

June 8, 2022

Adam Woods, P.E.
Assistant Department Manager Transportation Group
8430 W. Bryn Mawr Ave., Suite 400
Chicago, IL 60631

Re: **Quote for Title Insurance Proposal # 22-145**

Project Reference: Lake County DOT-ROLLINS ROAD RESURFACING AND NON-MOTORIZED TRAVEL (NMT) IMPROVEMENTS

Dear Adam:

Thank you for the opportunity to review your request for title work on the above-referenced parcel(s). Our proposed fees for this project are as follows:

Title Commitment (per PIN).....\$650.00

Copies of documents requested will be an additional fee, and will be invoiced at the time they are requested. Additional services are also available; please contact our office for pricing.

The cost per title commitment as stated above, does not include any parcels that are found to be currently or previously owned by a railroad.

Payment for services provided is expected within 30 days of the invoice date, via electronic funds transfer (ACH) or check. If these payment terms are not acceptable, please let us know your needs in advance.

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

Sincerely,

Gloria G. Wagner
Director of Title Operations
Wheatland Title Company