

**DRAFT****Local Public Agency
Engineering Services Agreement**

Agreement For Agreement Type
Using Federal Funds? ☐ Yes ☒ No

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Lake County Division of Transportation	Lake	19-00055-08-RS	
Project Number	Contact Name	Phone Number	Email
	Matt Emde	(847) 377-7452	memde@lakecountyil.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Wadsworth Road		2.6 miles	
Location Termini			<input type="button" value="Add Location"/>
Green Bay Road to Sheridan Road			<input type="button" value="Remove Location"/>

Project Description

Phase II engineering services for roadway resurfacing, restoration, rehabilitation, retaining walls and drainage improvements along Wadsworth Road.

Engineering Funding ☐ MFT/TBP ☐ State ☒ Other
Anticipated Construction Funding ☐ Federal ☐ MFT/TBP ☐ State ☐ Other

AGREEMENT FOR

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

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
Ciorba Group, Inc.	Diana Decker	(773) 775-4009	ddecker@ciorba.com
Address	City	State	Zip Code
8725 W. Higgins Road, Suite 600	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: Qualification Based Selection (QBS) Checklist
- ☒ EXHIBIT D: Cost Estimate of Consultant Services (BLR 05513 or BLR 05514)
- ☒ EXHIBIT E : Direct Costs Check Sheet (attach BDE 436 when using Lump Sum on Specific Rate Compensation)

☐ _____

☐ _____

☐ _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA, The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of US Department of Transportation (US DOT) assisted contract. Failure by the Engineer to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
8. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
9. For Preliminary Engineering Contracts:
 - (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
 - (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affixed the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the DEPARTMENT.
 - (c) That the ENGINEER is qualified technically and is thoroughly conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated in Exhibit A (Scope of Services).
10. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

II. THE LPA AGREES,

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

shall be due and payable to the ENGINEER.

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

- (1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER. Such payments to be equal to the value of the partially completed work in all previous partial payments made to the ENGINEER.
- (2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

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

Method of Compensation:

☐ Percent

☐ Lump Sum

☐ Specific Rate

☒ Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

OH is the firm's overhead rate applied to their DL and

FF is the Fixed Fee.

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

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

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

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.
5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
6. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
7. The ENGINEER and LPA certify that their respective firm or agency:
 - (a) has not employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
 - (b) has not agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
 - (c) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - (e) has not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
 - (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph and
 - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

Where the ENGINEER or LPA is unable to certify to any of the above statements in this clarification, an explanation shall be attached to this AGREEMENT.

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

If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

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

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

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

- (a) Publishing a statement:
 - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
 - (2) Specifying actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than (5) days after such conviction.
- (b) Establishing a drug free awareness program to inform employees about:
 - (1) The dangers of drug abuse in the workplace;

- (2) The grantee's or contractor's policy to maintain a drug free workplace;
- (3) Any available drug counseling, rehabilitation and employee assistance program; and
- (4) The penalties that may be imposed upon an employee for drug violations.
- (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.
- (e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

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

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

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
Ciorba Group, Inc.	36-2525351	\$2,032,975.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Huff & Huff	36-3044842	\$69,465.00
American Surveying and Engineering	36-3307274	\$705,293.00
Rubino	80-0450719	\$232,724.00
Kimley-Horn	56-0885615	\$7,636.00
Subconsultant Total		\$1,015,118.00
Prime Consultant Total		\$2,032,975.00
Total for all work		\$3,048,093.00

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The

Local Public Agency Type	County
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 of

Local Public Agency	Lake County Division of Transportation
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By (Signature & Date)

By (Signature & Date)

Local Public Agency	Lake County Division of Transportation
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Local Public Agency Type	County
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 Clerk

Title	
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(SEAL)

RECOMMENDED FOR EXECUTION

Shane Schneider, P.E.
Director of Transportation/County Engineer

Executed by the ENGINEER:

Attest:

Prime Consultant (Firm) Name	Ciorba Group, Inc.
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By (Signature & Date)

Michael Boy 05/15/2023

Title

CFO

By (Signature & Date)

Duane O'Leary 5/15/2023

Title

COO

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

N/A

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Ciorba Group, Inc.	Lake	19-00055-08-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	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Ciorba Group, Inc.	Lake	19-00055-08-RS

**EXHIBIT B
PROJECT SCHEDULE**

See attached

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Ciorba Group, Inc.	Lake	19-00055-08-RS

Exhibit C
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 checked="" 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 checked="" type="checkbox"/>
3	Was the scope of services for this project clearly defined?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Was public notice given for this project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If yes Due date of submittal 11/19/19

Method(s) used for advertisement and dates of advertisement

Newspaper ad and email blast to LCDOT's list of registered consultants

5	Do the written QBS policies and procedures cover conflicts of interest?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Project Criteria	Weighting
Technical Approach	25%
Firm Experience	15%
Specialized Experience	15%
Team Capabilities	20%
Workload Capacity	10%
Past Performance	10%
Local Presence	5%

8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Selection committee (titles) for this project

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Top three consultants ranked for this project in order

1	Ciorba Group
2	RS&H (Reynolds, Smith & Hills, Inc.)
3	HDR Engineering

9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Were negotiations for this project performed in accordance with federal requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Were acceptable costs for this project verified?	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>

Local Public Agency		Prime Consultant (Firm) Name	County	Section Number	
Lake County Division of Transport		Ciorba Group, Inc.	Lake	19-00055-08-RS	

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 checked="" type="checkbox"/>
14	QBS according to State requirements used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Existing relationship used in lieu of QBS process?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	LPA is a home rule community (Exempt from QBS).	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Instructions for BLR 05530 - Page 1 of 3

Form instructions are not to be submitted with the form

This form shall be used for a Local Public Agency (LPA) to enter into an agreement with an Engineering firm in connection with a project funded with Federal, State, and/or Motor Fuel Tax (MFT) funds. Based on the selection of type of engineering agreement and funding type, the form will change. For more information refer to the Bureau of Local Roads and Streets Manual (BLRS) Chapter 5. For signature requirements refer to Chapter 2, Section 3.05(b) of the BLRS manual.

This form can also be used for structure inspections.

When filing out this form electronically, once a field is initially completed, fields requiring the same information will be auto-populated.

Using Federal Funds?	The user must select yes or no. Based on the selection, a drop-down menu will appear. The language of the form changes based on the selection. Selecting yes indicates federal funds will be used to fund all or a portion of the engineering for this phase of this project. Selecting no indicates no federal funds will be used to fund any engineering for this phase of the project.
Agreement For	If yes was selected for using Federal Funds, select Federal PE or Federal CE from the drop-down. If no was selected for using Federal Funds, select MFT PE, MFT CE, or MFT PE-CE.
Agreement Type Number	From the drop down, select the type of agreement, types to choose from are: Original or Supplemental If the agreement is for a supplemental, insert the number of the supplemental using number 1 for the first supplemental, and increase the numbering as the supplementals increase.
Local Public Agency	
Local Public Agency	Insert the name of the LPA. This field value is used to populate the LPA name in the Agreement Signatures and the Exhibit pages.
County	Insert the name of the county in which the LPA is located.
Section Number	Insert the section number applied to this project without dashes, dashes are automatically inserted.
Job Number	Insert the job number assigned for the project, if applicable.
Project Number	Insert the project number assigned for this project, if applicable.
Contact Name	Insert the name of the LPA contact for this project.
Phone Number	Insert the phone for the LPA contact listed to the left without dashes.
Email	Insert the email for the LPA contact listed to the left.
Section Provisions	
Location	Use the add location button to add additional locations, if needed, for up to a total of five locations. If there are more than five locations, use various.
Local Street/Road Name	Insert the local street/road name.
Key Route	Insert the key route of the street/road listed to the left, if applicable.
Length	Insert the length in miles as it pertains to the location listed to the left. For a structure insert 0.01.
Structure Number	Insert the existing structure number(s) for this project.
Location Termini	Insert the beginning and ending termini as it pertains to this location for this project.
Add Location	Use this button to add additional location.
Remove Location	Use this button to remove a location added in error. Please note that at least one location is required.
Project Description	Insert a description of the work to be accomplished by this project.
Engineering Funding	Check all boxes that apply, if type other is checked, insert the type of other funding in the box following "other." The form will change based on the box(es) checked.
Anticipated Construction Funding	Check all boxes that apply, if type other is checked, insert the type of other funding in the box following "other."

Instructions for BLR 05530 - Page 2 of 3

Agreement For	Select the check box for the type of engineering the agreement is for. Phase I for Preliminary Engineering, Phase II for Design Engineering, Phase III for Construction Engineering. When Federal Funds are used, Phase I and Phase II can be selected when the agreement is for Federal PE. When Federal CE is selected, only Phase III can be selected. For MFT, the Phases can be selected based on the original selection at the top of the form for the agreement type.
Consultant	
Primary Consultant (Firm) Name	Insert the name of the primary consultant firm that will be executing this agreement. This field value is used to populate the consultant name in the Agreement Summary, Agreement Signatures and the Exhibit pages.
Contact Name	Insert the name of the contact for the firm listed to the left.
Phone Number	Insert the phone number for the contact listed to the left, without dashes.
Email	Insert the email of the contact listed to the left.
Address	Insert the address of the firm listed to the left.
City	Insert the city of the firm listed to the left.
State	Insert the state of the firm listed to the left.
Zip Code	Insert the zip code of the firm listed to the left.
Agreement Exhibits	Check all that apply, for boxes checked that do not have a description, insert the name of the exhibit.
Exhibit A	Insert the scope of services covered by this agreement/ project. This exhibit is required.
Exhibit B	Insert the project schedule that applies to this agreement/ project. This exhibit is required.
Exhibit C	Qualification Based Selection (QBS) Checklist process must be followed when the value of engineering will meet and/or exceed the threshold in 50 ILCS 510. If the process does not apply, check the form not applicable checkbox on the top of the exhibit page. If the process applies and using federal funds, complete items 1 through 13. If the process applies and using state funds, complete items 14 through 16.
Exhibit D	Cost Plus Estimate of Consultant Services (CECS) Worksheet (BLR 05513 or BLR 05514). If the method of compensation was checked (under LPA Agrees item 4) as Cost Plus Fixed Fee (Anniversary Raise or Fixed Raise) in the agreement, then this exhibit is required and the correct BLR form: BLR 05514 for Fixed Raise or BLR 05513 for Anniversary Raise.
Exhibit	Use the remaining boxes and lines to add additional exhibits as needed.
LPA Agrees	
Method of Compensation	<p>Select the method of compensation for this agreement by checking the applicable box.</p> <p>If Percent is checked (this is only available when agreement is for MFT funds.), insert in the box the applicable percentage.</p> <p>If Lump Sum is checked, complete the box after lump sum showing the lump sum compensation amount. For agreements funded with federal funds the lump sum shall be determined by using the Cost Plus Fixed Fee formula.</p> <p>If Specific Rate is checked, insert the specific rate in the box. The specific rate cannot exceed \$150,000. For a federal project this is limited to testing services only.</p> <p>If Cost Plus Fixed Fee is checked, select the type of raise the agreement will use: Anniversary or Fixed. If this method is selected, BLR 05513 or BLR 05514 must be included in the exhibits.</p>

Instructions for BLR 05530 - Page 3 of 3

Agreement Summary

Prime Consultant (Firm) Name	Field populated from the Prime Consultant (Firm) Name entered on the first pages of the agreement.
TIN/FEIN/SS	Insert the Prime Consultant's Taxpayer Identification Number (TIN), Federal Employer Identification Number (FEIN) or Social Security Number (SS).
Agreement Amount	Insert the maximum agreement amount.
Subconsultant(s)	As applicable, insert the name of each subconsultant engaged in this agreement/ project. Subconsultants are defined as any firm that is required to complete a Cost Estimate of Consultant Services (CECS) Worksheet.
TIN/FEIN/SS	Insert the Subconsultant's Taxpayer Identification Number (TIN), Federal Employer Identification Number (FEIN) or Social Security Number (SS).
Agreement Amount	Insert the maximum agreement amount for the subconsultant listed to the left.
Add Subconsultant	If additional lines are needed for additional subconsultants, insert lines as needed and complete the required information.
Subconsultant Total	This field is automatically completed, it is the sum of all the agreement amounts for all subconsultants listed.
Prime Total	This field is automatically completed, it is the amount of the prime consultant fee as listed above.
Total for All	This field is automatically completed, it is the sum of the subconsultant and the prime total.

Agreement Signatures

Executed by LPA

Local Public Agency Type	From the drop down, select the type of LPA. Types to choose from are: City, County, Town, or Village.
Local Public Agency	Field populated from the Local Public Agency entered on the first pages of the agreement.
By	The LPA clerk will sign here.
By	The LPA official authorized to sign this agreement will sign and date here.
Seal of LPA	The LPA will seal the document here.
Title	Insert the title of the LPA official who signed above.

Executed by the Engineer

Prime Consultant (Firm) Name	Field populated from the Prime Consultant (Firm) Name entered on first pages of the agreement.
By	The person(s) authorized to sign this agreement from the engineering firm will sign and date here.
Title	Insert the title of the person signing above.

For Agreement using MFT or State Funds only:

Regional Engineer	Upon approval the Regional Engineer will sign and date here.
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A minimum of four (4) signed originals must be submitted to the Regional Engineer's District office.

Following approval, distribution will be as follows:

- Central Office (only for Projects using State and/or Federal Funds)
- District
- Engineer (Municipal, Consultant or County)
- Local Public Agency Clerk

EXHIBIT B

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CONSULTANT:	Ciorba Group, Inc.
PROJECT MANAGER:	Diana Decker, PE
PROJECT ENGINEER:	Tim Heuer, PE
LEAD ROADWAY ENGINEER:	Tim Heuer, PE
LEAD STRUCTURAL ENGINEER:	Brett Sauter, PE, SE
LEAD DRAINAGE ENGINEER:	Tony Wolff, PE, CFM
ROUTE:	Wadsworth Road (CH 17)
SECTION:	19-00055-08-RS
COUNTY:	Lake
LOCAL AGENCY CONTACT:	Matt Emde, PE Lake County Division of Transportation (LCDOT)

Project Understanding

Ciorba Group, Inc. will be leading a team responsible for the Phase II engineering services for the roadway resurfacing, restoration, rehabilitation and drainage improvements along Wadsworth Road between Green Bay Road and Sheridan Road in Waukegan and Beach Park, Illinois. The intersection of Green Bay Road with Wadsworth Road is not included in this project. This project will utilize 3R criteria to extend the service life of the existing pavement, enhance roadside safety and improve drainage.

The proposed roadway section consists of an 11' lane in each direction with an 11' bidirectional left turn lane, 4' bicycle-friendly shoulders, B-6.24 curb and gutter, and an 8' multi-use path along the south side. Pavement improvements determined as part of the Phase I studies include:

- Resurfacing only – Green Bay Road to Lewis Avenue
- Widening and resurfacing – Bernice Terrace to Sheridan Road (excluding North Avenue)
- Widening and reconstruction – North Avenue

Additional improvements added to this project that were not included in the Phase I studies include:

- Improvements to the west leg of the Lewis Avenue and Wadsworth Road intersection. This improvement was included in a separate LCDOT project but is being moved to this project due to ongoing coordination with Waukegan National Airport.
- Traffic signal improvements Sheridan Road and Wadsworth Road intersection and extension of the multi-use path on the west side of Sheridan Road south of Wadsworth Road to connect to the multi-use path constructed by IDOT as part of the box culvert replacement project. Also included is the construction of ADA compliant ramps at the SW, SE, and NE corners of the intersection and traffic signal improvements.

This project will use sales tax funding for engineering and sales tax, MFT, and County Bridge funding for construction. Two contract plans, specifications, and estimates will be

EXHIBIT B

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prepared. The first contract includes the resurfacing of Wadsworth Road from Green Bay Road to Lewis Avenue and improvements to the west leg of the Lewis Avenue intersection. The second contract includes the widening and resurfacing or reconstruction of Wadsworth Road between Bernice Terrace and Sheridan Road. This contract will also include the traffic signal improvements at Wadsworth Road and Sheridan Road intersection and the construction of the multi-use path along the west side of Sheridan Road. All plans, special provisions and estimates will be completed in accordance with IDOT's BLR Manual and LCDOT requirements. Plans will be prepared using Microstation V8i (SS10) utilizing IDOT's workspace.

Submittals will include the following for the two construction contracts:

1. Preliminary (60%) Plans and Estimates to LCDOT, local agency, and utility companies.
2. Pre-final (90%) Plans, Special Provisions and Estimates to LCDOT, IDOT, local agency, utility companies and other required agencies.
3. Final Plans, Special Provisions and Estimates to LCDOT, IDOT, local agency, utility companies and other required agencies.
4. Advertisement Plans, Special Provisions and Estimates to LCDOT, IDOT, local agency, utility companies and other required agencies.

Scope of Services

1. Coordination, Data Collection & Meetings - **Ciorba**
 - a. Attend three technical meetings with LCDOT to review comments via web-conference.
 - b. Attend bi-monthly meetings with LCDOT to discuss project progress via web-conference.
 - c. Attend one meeting with IDOT Traffic, coordinated through the Bureau of Local Roads & Streets.
 - d. Attend two IDOT Detour Committee Meeting.
 - e. Attend plan-in-hand meeting at the project site after pre-final plan submittal.
 - f. Attend three technical meetings with the Village of Beach Park to review comments via web-conference.
 - g. Attend two in person meetings with Waukegan National Airport, FAA, and IDOT-IDA.
 - h. Bi-monthly Project Team meetings to gauge progress, identify issues, and verify interdisciplinary coordination.
 - i. Preparation of meeting agendas and minutes.
 - j. Coordination with LCDOT.
 - k. Coordination with the Village of Beach Park.
 - i. Develop a cost estimate and exhibits for sanitary sewer and water main relocation and multi-use path construction. The estimate and exhibits will be used for the intergovernmental agreement

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between LCDOT and Beach Park. One estimate and three exhibits assumed.

- l. Coordination with Waukegan National Airport, FAA, and IDOT-IDA.
 - m. Coordination with Project Team.
 - n. Utility Coordination
 - i. Request utility atlas information.
 - ii. Chair twelve virtual utility coordination meetings with the private utility companies. Google Earth with KMZ files of existing utilities and proposed improvements will be provided in advance of the meetings. Project impacts to existing utilities and relocation schedule will be discussed during each meeting.
 - iii. Additional coordination with specific utilities with identified conflicts. Additional coordination may include site meetings, field locate requests, and sharing of CAD basefiles with the utilities for vertical and horizontal alignment confirmation.
 - o. Perform a site visit to review existing conditions.
2. Topographic Survey – **Ciorba & American**
- a. Perform supplemental topographical survey along Wadsworth Road and at potential detention pond locations.
 - b. Survey top elevation of soil borings.
 - c. Survey will be completed in accordance with LCDOT Design Survey Procedures requirements.
 - d. Complete utility potholing at an estimated 6 locations - **American**
3. Water Resources - **Ciorba**
- a. Water Main Relocation Design
 - i. 2,695 linear feet of water main relocation at 7 locations due to conflicts with proposed retaining wall, proposed storm sewer and drainage structures, and proposed ditch.
 - ii. 8 fire hydrant relocations.
 - b. Sanitary Sewer Relocation Design
 - i. 2,260 linear feet of sanitary sewer relocation at 2 locations due to location under curb and gutter and ditch line.
 - ii. 3 manhole reconstructions and 1 conflict manhole installation due to storm sewer conflict.
 - c. Bull Creek North Branch Culvert Hydraulic Analysis
 - i. Update HEC-RAS model to include roadway longitudinal encroachments in the floodplain/floodway, and final culvert grading.
 - ii. Update culvert Hydraulic Report narrative and Waterway Information Table (WIT) for inclusion in Lake County SMC Permit.
 - d. Detention Alternatives Analysis
 - i. Analysis

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1. Evaluation of site ability to meet applicable LCSMC criteria for open detention facilities.
 2. Concept grading plans to achieve detention and water quality volumes.
 3. Hydrologic/Hydraulic Modeling – XP-SWMM analysis of ponds to ensure that detention volumes will be realized. SWMM analysis will include incoming and outgoing storm sewer system sizing for use in cost comparisons.
 4. Evaluation of site ability to meet FAA draw down requirements and other requirements as applicable.
- ii. Recommendation
1. Conceptual cost estimates for each pond site, plus a cost estimate for the previously developed in-pipe detention alternative.
 2. Prepare plan view exhibits for the alternatives.
 3. Provide details of the three alternatives at a preliminary level in a Tech Memo.
 4. Coordinate with LCDOT to determine preferred alternative.
- iii. FAA Coordination
1. With assistance from Kimley-Horn, Ciorba will coordinate with the FAA to confirm open detention guidelines.
 2. Submit concept grading plan for preferred alternative to the FAA for review and address comments. Pond 100-year storage elevation and drawdown information will be included in the concept grading plan.
- e. Roadway Drainage
- i. Design proposed roadside ditches (include ditch lining design) from Bernice to Sheridan. Ditches between Green Bay and Lewis will not be widened or regraded.
 - ii. Culvert Design:
 1. Design side street/driveway culverts from Bernice to Sheridan. Side street/driveway culverts from Green Bay to Lewis will not be reconstructed.
 2. Design STA 30+36 crossroad culvert to meet freeboard criteria. Culvert and end treatments will be shown on the roadway plan and profile sheet; a separate drainage sheet will not be prepared. No other crossroad culverts within the resurfacing-only section will be reconstructed.
 - iii. Perform inlet spacing calculations.
 - iv. Offsite flow determination near Our Lady of Humility Church and existing ponds west of North Avenue.
 - v. Design storm sewers.
 - vi. Final detention design.
 - vii. Design ravine bank stabilization at the downstream end of the Bull Creek NB culvert, east of North Avenue.

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- viii. Final compensatory storage design (includes grading at culvert crossing).
- ix. Location Drainage Tech Memo (LDTM) due to IDOT Connection to Sheridan Road. Plans and LDTM will be routed to IDOT Hydraulics through the Bureau of Local Roads due to MFT funding; an IDOT highway permit will not be required. Two rounds of IDOT Hydraulics LDTM comments and revisions are assumed.
- f. Prepare Drainage Plans
 - i. Drainage Removal Sheets + Schedule (6 double plan sheets and 2 schedule sheets)
 - ii. Drainage Plan and Profile Sheets (13 Total- 12 for Wadsworth Rd. and 1 for Gabriel Ave.). No drainage sheets included for resurfacing segment.
 - iii. Drainage Schedule Sheets (12 Pipe and Structure Schedule Sheets, 2 Miscellaneous Schedule Sheets)
 - iv. Underdrain Schedules (2 Sheets)
 - v. Drainage Detail Sheets (3 Sheets)
 - vi. Detention Pond Grading Plan and Cross Sections (1 Plan Sheet and 1 Cross section Sheet)
 - vii. Update Compensatory Storage Cross-Section Sheets (49 sheets)
 - viii. Temporary Drainage Plans (8 double plan sheets)
 - ix. Temporary Drainage Schedule (2 sheet)
- g. Prepare Erosion Control and Landscaping Plans
 - i. Temporary Erosion Control Plan and Schedules (7 double plan sheets and 1 Plan sheet for Detention Pond; 2 Schedule Sheets). From Green Bay to Lewis, temporary erosion control will be added to roadway plan sheets and will include: Reconstruction of the STA 30+36 culvert, and vegetation clearing at the STA 10+18 and 51+95 culverts.
 - ii. Permanent Erosion Control and Landscaping Plan and Schedules (15 double plan sheets and 1 Plan sheet for Detention Pond; 2 Schedule sheets). From Green Bay to Lewis, permanent erosion control and landscaping will be added to roadway plan sheets at the three disturbance locations.
 - iii. Erosion Control & Landscaping Details and Notes for each contract.
- h. Permitting
 - i. Prepare and submit application for two USACE 404 permits. One for each contract.
 - ii. Prepare and submit application for two Lake County Stormwater Management WDO Permits (includes issuance of Floodway Permit). One for each construction contract.
 - iii. Prepare and submit one IEPA water main construction permit.
 - iv. Prepare and submit one IEPA sanitary sewer construction permit.

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- v. Prepare one NPDES Construction Stormwater General Permit and SWPPP, to be included in the specifications for the Contractor to submit electronically. It is assumed that the resurfacing-only section will disturb less than one acre and will not require a separate NPDES permit.
 - vi. Coordinate with Kimley Horn on one FAA permit for open detention design.
- 4. Traffic Signals – **Ciorba**
 - a. Obtain record drawings
 - b. Review record drawings
 - c. Conduit fill calculations
 - d. Voltage drop calculations (1 service)
 - e. Structural review of soil borings at mast arm locations
 - f. District 1 Standard Details (7 sheets)
 - g. Temporary Signal Plan – Wadsworth at Sheridan (3 stages, 2 sheets)
 - h. Temporary Cable Plan – Wadsworth at Sheridan (3 sheets)
 - i. Signal Plan – Wadsworth at Sheridan (1 sheet)
 - j. Cable Plan – Wadsworth at Sheridan (1 sheet)
 - k. Schedule of Quantities and Street Name Signs (1 sheet)
 - l. Temporary Interconnect Plan (1 sheet)
 - m. Temporary Interconnect Schematic (1 sheet)
 - n. Interconnect Plan (1 sheet)
 - o. Interconnect Schematic (1 sheet)
 - p. Fiber Splicing Diagram (1 sheet)
 - q. Cabinet Detail (1 sheet)
- 5. Roadway Studies/Plans – **Ciorba**
 - a. Roadway Studies
 - i. Prepare and submit the Environmental Survey Request Addendum to include work along Sheridan Road. The ESR boundary will be revised to include potential detention basin areas and the outlet for the McClory underpass.
 - ii. Prepare and submit Environmental Survey Request Update as needed to update expired clearances.
 - iii. Evaluate a roadway profile revision along Wadsworth Road near Holdridge Avenue to minimize ROW and driveway impacts. Based on preliminary evaluation during Phase I, the profile revision may eliminate the need for temporary easements on ten parcels.
 - iv. Review and update ROW requirements based on approved drainage design and findings of profile revisions.
 - v. Prepare an Intersection Design Study for the Sheridan Road and Wadsworth Road intersection.

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- vi. Re-evaluate the Phase I design to investigate opportunities to avoid property impacts where possible, including consideration of design variables by LCDOT.
- b. Roadway Design
 - i. Prepare pavement design.
 - ii. Prepare barrier warrant analysis at guardrail locations shown on the Phase I plans.
 - iii. Update a 3D model.
- c. Prepare Roadway Plans – Preliminary (60%), pre-final (90%) and final (100%) submittals to LCDOT and the Village of Beach Park. Submit pre-final and final plans to IDOT for review. Plans will be prepared according to the LCDOT plan prep guidelines.
 - i. Title Sheet (1 sheet per contract)
 - ii. Index/Highway Standards/Commitments (1 sheet per contract)
 - iii. General Notes (1 sheet per contract)
 - iv. Summary of Quantities (10 sheets includes both contracts)
 - v. Schedule of Quantities (20 sheets includes both contracts)
 - vi. Earthwork Schedule (4 sheet for widening/resurfacing/reconstruction contract only)
 - vii. Existing and Proposed Typical Sections (8 sheets)
 - 1. Wadsworth Road (5 sheets)
 - a. Resurfacing – Green Bay Road to west of Lewis Avenue
 - b. West leg of Lewis Avenue intersection
 - c. Widening & Resurfacing – Tangent
 - d. Widening & Resurfacing - Superelevated
 - e. Widening & Reconstruction
 - 2. Gabriel Avenue (1 sheet)
 - 3. North Avenue (1 sheet)
 - 4. Garnett Avenue, Holdridge Avenue & Geraghty Avenue (1 sheet)
 - viii. Alignment, Ties, and Benchmarks (11 sheets)
 - 1. Alignment (9 sheets, single plan, 1" = 50')
 - 2. Ties & Benchmarks (2 sheets)
 - ix. Removal Items (29 sheets, single plan, 1" = 20')
 - 1. Wadsworth Road (25 sheets)
 - 2. Gabriel Avenue (1 sheet)
 - 3. North Avenue (1 sheet)
 - 4. Sheridan Road (2 sheets)
 - x. Roadway Plan and Profile (29 sheets, 1" = 20')
 - 1. Wadsworth Road (25 sheets)
 - 2. Gabriel Avenue (1 sheet)

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3. North Avenue (1 sheet)
4. Sheridan Road (2 sheets)
- xi. Maintenance of Traffic (35 sheets)
 1. General Notes (1 sheet per contract)
 2. MOT Schedule of Quantities (1 sheet)
 3. MOT Typical Sections & Descriptions (3 sheets)
 4. MOT for the section of Wadsworth Road between Green Bay Road and Lewis Avenue and at the intersection of Sheridan Road and Wadsworth Road will utilize off-peak lane closures using IDOT Highway Standards. MOT plans will not be provided, staging notes included.
 5. Wadsworth Road – Lewis Avenue to Sheridan Road (Single plan, 1" = 50')
 - a. Stage 1 Plans (6 sheets)
 - b. Stage 1A Plans (6 sheets)
 - c. Stage 2 Plans (6 sheets)
 - d. Stage 2A Plans (6 sheets)
 6. Wadsworth Road Detour (3 sheets)
 7. North Avenue Detour (3 sheets)
- xii. Intersection Details (8 sheets, 1" = 20')
 1. Gabriel Avenue (1 sheet)
 2. North Avenue (1 sheet)
 3. Garnett Avenue (2 sheets)
 4. Holdridge Avenue (2 sheets)
 5. Geraghty Avenue (2 sheets)
- xiii. Signing & Pavement Marking (17 sheets)
 1. Signing Schedule (2 sheets) Signing manufacturing, layout, and installation will be done by LCDOT forces.
 2. Plans (15 sheets, double plan, 1" = 20')
 - a. Wadsworth Road (13 sheets)
 - b. Gabriel Avenue (1/2 sheet)
 - c. North Avenue (1/2 sheet)
 - d. Sheridan Road (1 sheets)
- xiv. Special Details
 1. ADA Ramp Details
 - a. North Avenue – 2 ramps (1 sheet)
 - b. Garnett Avenue – 2 ramps (1 sheet)
 - c. Holdridge Avenue – 2 ramps (1 sheet)
 - d. Geraghty Avenue – 2 ramps (1 sheet)
 - e. Sheridan Road – 4 ramps (2 sheets)
 - f. Commercial Driveways
 - i. Wadsworth Road (3 sheets)
 - ii. Sheridan Road (2 sheets)
 2. Driveway Details (12 sheets)
 3. D1 Details (10 sheets)

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- xv. Cross Sections (50 spacing on cross sections)
 - 1. Wadsworth Road between Bernice Terrace and Sheridan Road (132 cross sections + 5 intersection + 63 driveways + 1 culvert)
 - 2. Gabriel Avenue (5 cross sections)
 - 3. North Avenue (5 cross sections)
 - 4. Sheridan Road (12 cross sections + 2 driveways)
- d. Public Involvement
 - i. Maintenance of property owner mailing list.
 - ii. Semiannual project updates for distribution by the municipality and/or LCDOT. This is anticipated to consist of design status updated for a web page.
 - iii. Attend 12 meetings with residents.
- 6. Structural Design/Plans - **Ciorba**
 - a. Wadsworth Road over the North Branch of Bull Creek
 - i. TSL preparation and submittal to IDOT for approval
 - ii. PBDHR preparation and submittal to IDOT for approval
 - iii. Culvert design plans assuming a precast concrete single cell box constructed utilizing staged construction. Cast in place concrete wingwalls will be used. Anticipated sheet count is:
 - 1. General Plan and Elevation
 - 2. Bill of Material, Index of Sheets, Soil Retention System Layout
 - 3. Barrel Details
 - 4. Wingwall Details 1
 - 5. Wingwall Details 2
 - 6. Soil Boring Logs
 - b. Assuming that in-pipe detention is utilized, a junction chamber design will be required to accommodate large pipes.
 - i. Assume that one junction chamber size will be utilized at all locations.
 - ii. Junction chamber design and detailing will be utilized using a cast in place concrete design.
 - c. Based on a retaining wall type study performed in Phase I, ten retaining walls will be required. From the type study, two retaining wall types will be utilized.
 - i. Retaining Wall 1-Sta. 84+60 to 87+60 LT; Average height 10.75', 300' long, drilled soldier pile retaining wall with cast in place concrete facing wall type, Pedestrian railing anticipated.
 - 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation

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- d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Plan and Elevation 3
 - f. Soldier Pile Station and Offset Table
 - g. Retaining Wall Details
 - h. Railing Base Sheet
 - i. Soil Boring Logs
 - j. Soil Boring Logs 2
- ii. Retaining Wall 2-Sta. 81+00 to 84+30 and 84+50 to 88+50 RT; Average height 13', 730' long, drilled soldier pile retaining wall with cast in place concrete facing wall type, Pedestrian railing anticipated.
- 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Plan and Elevation 3
 - f. Retaining Wall Plan and Elevation 4
 - g. Retaining Wall Plan and Elevation 5
 - h. Soldier Pile Station and Offset Table
 - i. Retaining Wall Details
 - j. Railing Base Sheet
 - k. Soil Boring Logs
 - l. Soil Boring Logs 2
- iii. Retaining Wall 3-Sta. 84+30 to 84+50 RT; Average height 13', 20' long, cast in place concrete drilled soldier pile retaining wall with cast in place concrete facing wall type, Pedestrian railing anticipated.
- 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Details
 - e. Railing Base Sheet
 - f. Soil Boring Logs
- iv. Retaining Wall 4-Sta. 107+65 to 109+25 LT; Average height 7', 160' long, cast in place concrete retaining wall, Pedestrian railing anticipated.
- 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation

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- b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
- c. Retaining Wall Plan and Elevation
- d. Retaining Wall Plan and Elevation 2
- e. Retaining Wall Details
- f. Railing Base Sheet
- g. Soil Boring Logs
- h. Soil Boring Logs 2
- v. Retaining Wall 5-Sta. 110+00 to 111+05 LT; Average height 7', 105' long, cast in place concrete wall type, Pedestrian railing anticipated.
 - 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Details
 - e. Railing Base Sheet
 - f. Soil Boring Logs
- vi. Retaining Wall 6-Sta. 109+00 to 112+20 RT; Average height 10', 320' long, drilled soldier pile retaining wall with cast in place concrete facing wall type, Pedestrian railing anticipated.
 - 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Plan and Elevation 3
 - f. Soldier Pile Station and Offset Table
 - g. Retaining Wall Details
 - h. Railing Base Sheet
 - i. Soil Boring Logs
 - j. Soil Boring Logs 2
- vii. Retaining Wall 7-Sta. 112+20 to 113+90 LT; Average height 18', 170' long, cast in place concrete retaining wall supported on driven piles wall type, Pedestrian railing anticipated.
 - 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation

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- d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Details
 - f. Pile Base Sheet
 - g. Railing Base Sheet
 - h. Soil Boring Logs
 - i. Soil Boring Logs 2
- viii. Retaining Wall 8-Sta. 112+80 to 115+15 RT; Average height 17.5', 235' long, cast in place concrete retaining wall supported on driven piles wall type, Pedestrian railing anticipated.
 - 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Plan and Elevation 3
 - f. Retaining Wall Details
 - g. Pile Base Sheet
 - h. Railing Base Sheet
 - i. Soil Boring Logs
 - j. Soil Boring Logs 2
- ix. Retaining Wall 9-Sta. 115+50 to 118+50 LT; Maximum height 8', 300' long, cast in place concrete retaining wall supported on driven piles wall type, Pedestrian railing anticipated.
 - 1. TSL, PBDHR preparation and submittal to IDOT for approval
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation
 - b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Plan and Elevation 3
 - f. Retaining Wall Details
 - g. Pile Base Sheet
 - h. Railing Base Sheet
 - i. Soil Boring Logs
 - j. Soil Boring Logs 2
- x. Retaining Wall 10-Sta. 115+25 to 118+75 RT; Maximum height 6.5', 350' long, cast in place concrete retaining wall supported on driven piles wall type, Pedestrian railing anticipated.
 - 1. TSL and PBDHR are not required due to 6.5' tall height and hours are not included.
 - 2. Anticipated sheet count is:
 - a. General Plan and Elevation

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- b. Bill of Material, Index of Sheets, Soil Retention System Layout, Drainage Details
 - c. Retaining Wall Plan and Elevation
 - d. Retaining Wall Plan and Elevation 2
 - e. Retaining Wall Plan and Elevation 3
 - f. Retaining Wall Details
 - g. Pile Base Sheet
 - h. Railing Base Sheet
 - i. Soil Boring Logs
 - j. Soil Boring Logs 2
 - xi. Coordinate with Rubino on soil boring locations and retaining wall recommendations.
7. Quantity, Specifications & Estimates
- a. Calculate quantities for the preliminary, pre-final and final plan submittals.
 - b. Prepare specifications for the pre-final and final submittals.
 - c. Prepare cost estimates for the preliminary, pre-final and final plan submittals.
 - d. Prepare estimate of time for the pre-final and final plan submittals.
8. Construction Assistance
- a. Bidding Assistance
 - i. Attend Pre-Bid Meeting
 - ii. Provide responses to bidder questions.
 - iii. Issues addendum to clarify the bid documents and to address bidder questions.
 - iv. Complete bid analysis and prepare a recommendation for the award letter.
 - b. Construction Support/Coordination
 - i. Review shop drawings.
 - ii. Attend 3 field meetings.
 - iii. Provide responses to RFIs and update documents as needed.
9. QC/QA
- a. Perform Quality Control/Quality Assurance during the project per Ciorba Group's Quality Assurance/Quality Control Plan.
10. Project Management and Administration
- a. Provide project oversight.
 - b. Prepare invoices and progress reports.
 - c. Project control of scope, schedule, and budget.
11. Geotechnical – **Rubino Engineering, Inc.** See attached detailed scope of work.

EXHIBIT B

SCOPE OF WORK

- a. Soil borings will be taken at retaining wall locations not completed during Phase I, potential detention pond locations, and traffic signal foundations at Sheridan Road intersection.
12. Environmental Services – **Huff and Huff** See attached detailed scope of work.
- a. Wetland Delineation Update
 - b. Preliminary Environmental Site Assessment (PESA) Validation
 - c. Preliminary Site Investigation (PSI) with LPC663 CCDD Documentation
 - d. Bat Assessment
13. Right of Way – **American Surveying and Engineering** See attached detailed scope of work.
- a. Attend kick-off meeting with LCDOT.
 - b. All work will be prepared in accordance with LCDOT Plat Guidelines which is available LCDOT's website.
 - c. Prepare plats and legal descriptions for 26 parcels, preparation of plats and legal descriptions for 32 parcels was included in the Phase I contract.
 - d. Appraisal/negotiations services for 58 parcels.
14. Aviation Coordination and Permitting – **Kimley-Horn** See attached detailed scope of work.
- a. Coordination with Waukegan National Airport, FAA and IDOT -IDA.
 - b. Two in person meeting is included.
 - c. Submit 7460-1 permit for geotechnical investigations, proposed improvements, and construction activities.

Activity		Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
TOTAL		14342	396	333	398	594	2732	1722	998	2585	1270	800	2514
1.	Meetings, Data Collection & Coordination	Task Total:	454	109	39	100	128	58		16		4	
	0100 Meetings	Meetings	204	51	21	36	60	36					
	Meetings with Owner - Comment Review (3 mtg x 1 hrs/mtg x 5 of staff)		15	3	6	3	3						
	Meetings with Owner - Bi-monthly Meetings (9 mtg x 1 hrs/mtg x 2 of staff)		18	9			9						
	Meetings with Beach Park - Comment Review (3 mtg x 1 hrs/mtg x 2 of staff)		6	3		3							
	Meetings with IDOT - Traffic & Detour (3 mtg x 1 hrs/mtg x 2 of staff)		6	3			3						
	Meetings with Airport, FAA, IDOT-IDA (2 mtg x 3 hrs/mtg x 2 of staff)		12	6			6						
	Plan in Hand Meeting (1 mtg x 6 hrs/mtg x 5 of staff)		30	6	6	12	6						
	Meetings with Project Team - Bi-monthly Meetings		45	9	9	18	9						
	Meeting with Utilities (12 mtg x 1 hr/mtg x 2 staff)		24	12				12					
	Meeting Minutes (24 mtg x 1 hr/mtg)		24				12	12					
	Prepare Agenda/Exhibits for Meetings (24 mtg x # 1 hr/mtg)		24				12	12					
	0120 Coordination	Subtotal:	210	58	18	48	52	18		16			
	Coordination with Owner and Owner Reps		18	9			9						
	Coordination with Other Agencies		18	9			9						
	Coordination for Beach Park IGA - Cost Estimate and Exhibits		48	4		12	16			16			
	Coordination with Project Team		90	18	18	36	18						
	Coordination with Utilities		36	18				18					
	0130 Data Collection 2	Subtotal:	40			16	16	4				4	
	Obtain Utility Atlases		8					4				4	
	Field Checks (1 visit x 8 hrs/visit x 4 of staff)		32			16	16						
2.	Survey	Task Total:	98									16	82
	0210 Field Survey	Subtotal:	76									16	60
	Project Setup (1-4 hours for Prj Eng & party chief)		4										4
	Soil Boring Survey		8										8
	Supplemental Survey (assume 200-300 ft per hour)		24										24
	Detention Pond Survey		8										8
	Drainage Inventory (6-8 structures per hour)		32									16	16
	0220 Process Survey	Subtotal:	22										22
	Down Loading Total Station (1-2 hrs per down load every 2-3 days of topo)		6										6
	Drafting Existing Conditions (4,000 ft per day)		8										8
	Update Digital Terrain Model		8										8
3.	Water Resources	Task Total:	3150	24		458	640	376		1652			
	0310 Preliminary Stormwater Analysis	Subtotal:	256	4		60	68			124			
	Hydrologic Modeling (Offsite flow from Church ponds)		32			4	12			16			
	Hydraulic Modeling (Update HEC-RAS model)		28				8			20			
	Storm Water Detention Analysis		196	4		56	48			88			
	0320 Stormwater Reports	Subtotal:	90			14	20	16		40			
	Location Drainage Tech Memo (IDOT drainage connection at Sheridan Rd)		66			10	16	16		24			
	Hydraulic Report (Update)		24			4	4			16			

Activity			Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
0330	Stormwater Facility Design	Subtotal:	1656				144	500			1012			
	Inlet Spacing		104				8	32			64			
	Culvert Design (STA 30+36)		26				6	8			12			
	Storm Sewer Design		156				16	60			80			
	Ditch Design		104				8	32			64			
	Temporary Drainage Plans & Schedules		132				16	36			80			
	Detention Design		112				8	40			64			
	Compensatory Storage Design		46				6	20			20			
	Drainage Sheets		312				32	80			200			
	Drainage and Underdrain Details and Schedules		144				8	56			80			
	Drainage Removals		72				8	24			40			
	Erosion and Sediment Control Plans (Temp & Permanent Double plan sheets)		318				18	80			220			
	Landscaping Plans (Double plan sheets)		130				10	32			88			
0340	Sanitary Sewer	Subtotal:	400		8		88		136		168			
	Sanitary Sewer Design		136				68		68					
	Sanitary Sewer Sheets		252		8		16		68		160			
	Sanitary Sewer Details		12				4				8			
0350	Water Main System	Subtotal:	476		12		104		160		200			
	Water Main Design		160				80		80					
	Water Main Sheets		304		12		20		80		192			
	Water Main Details		12				4				8			
0360	Permits	Subtotal:	272				48	52	64		108			
	Permit - County (SMC WDP including preliminary coordination), 2 permits		100				16	24	24		36			
	Permit - USACE, 2 permits		80				8	16	16		40			
	Permit - IEPA (Water and Sanitary)		40				16		24					
	Permit - NPDES		20					4			16			
	Permit - Other (FAA for detention pond)		32				8	8			16			
4.	Electrical and Lighting	Task Total:	121		9	1		4	40				67	
0420	Traffic Signals Studies and Plans	Subtotal:	121		9	1		4	40				67	
	Obtain record drawings		1						1					
	Review record drawings		1						1					
	Conduit fill calculations		3						1				2	
	Voltage drop calculations		2						1				1	
	Review Soil Borings		5			1		4						
	Plans - D1 Standard Details (7 sheets)		2										2	
	Plans - Temporary Signal (3 stages, 2 sheets)		13		1				4				8	
	Plans - Temporary Cable (3 sheets)		10		1				3				6	
	Plans - Traffic Signal (1 sheet)		13		1				4				8	
	Plans - Cable Plan (1 sheet)		10		1				3				6	
	Plans - Intersection Quantities and Sign Details (1 sheet)		8						2				6	
	Plans - Temporary Interconnect (1 sheet)		9		1				2				6	
	Plans - Temporary Interconnect Schematic (1 sheet)		8						2				6	
	Plans - Interconnect (1 sheet)		9		1				2				6	

Activity			Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
	Plans - Interconnect Schematic (1 sheet)		8						2				6	
	Plans - Fiber Optic Splicing Diagram		3						1				2	
	Plans - Passage Cabinet Detail		3						1				2	
	Assemble PS&E for submittals		9		3				6					
	Prepare disposition for 2 submittals		4						4					
5.	Engineering Studies/Plans	Task Total:	3993		94		4	1158	1177		809		641	110
	0520 Environmental Studies	Subtotal:	30					15			15			
	Prepare Environmental Survey Request (ESR) Addendum		20					10			10			
	Prepare Environmental Survey Request (ESR) Update		10					5			5			
	0530 Geometric Studies	Subtotal:	100		6			56	21		17			
	Vertical Geometry Study		40		2			24	8		6			
	Re-evaluate Phase I Design		40		2			24	8		6			
	Right-of-Way Requirements Review/Update		20		2			8	5		5			
	0540 Safety Studies	Subtotal:	48		6			18	12		12			
	Barrier Warrant Analysis (6 locations)		48		6			18	12		12			
	0550 Preliminary Project Plans and Report	Subtotal:	40		4		4	16			16			
	Intersection Design Studies - Sheridan/Wadsworth Intersection		40		4		4	16			16			
	0560 Contract Plans	Subtotal:	694		12			163	134		175		100	110
	Title Sheet (4 hrs/sheet)		8					4			4			
	Alignment, Ties and Benchmarks (12 hrs/sheet)		132					22						110
	Typical Sections (10 hrs/sheet)		80					20	20		20		20	
	General Notes (8 hrs/sheet)		16					8			8			
	Index/Highway Standards/Commitments (10 hrs/sheet)		20					10			10			
	Summary of Quantities (12 hrs/sheet)		120					20	50		50			
	Schedule of Quantities (12 hrs/sheet)		240					40	40		80		80	
	Earthwork Schedule (12 hrs/sheet)		48					24	24					
	Plan Assembly (2 hrs/submittal X 3 submittals)		6					3			3			
	Disposition of Comments (8 hrs/submittal X 3 submittals)		24		12			12						
	0570 Roadway Plans	Subtotal:	2941					822	1010		568		541	
	MOT Plans (20 hrs/sheet)		480					120	120		120		120	
	MOT General Notes (8 hrs/sheet)		16					8			8			
	MOT Detour Plans (16 hrs/sheet)		96					48	24		24			
	MOT Typical Sections and Description (12 hrs/sheet)		36					9	9		9		9	
	MOT Schedule of Quantities (12 hrs/sheet)		12					3	3		3		3	
	Proposed Plan and Profile Sheets (20 hrs/sheet) (1"=20')		580					145	145		145		145	
	Signing & Pavement Marking Plans (20 hrs/sheet) (1"=20')		300					75	75		75		75	
	Signing Schedule (16 hrs/sheet)		32					8	8		8		8	
	Removal Plan (12 hrs/sheet) (1"=20')		348					87	87		87		87	
	Intersection Details (16 hrs/sheet)		128					32	32		32		32	
	ADA Ramp Details (12 hrs/sheet)		132					33	33		33		33	
	Driveway Details (16 hrs/sheet)		96					24	24		24		24	
	D1 Details (1 hrs/sheet)		10					5					5	
	Cross Sections (3 hrs/xs)		675					225	450					

Activity			Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
0580	Pavement Analysis & Design	Subtotal:	8					2			6			
	Complete Pavement Design		8					2			6			
0590	Public Involvement	Subtotal:	132		66			66						
	Maintain Stakeholder Lists (2 hr/year)		4		2			2						
	Project Updates (2 times per year)		32		16			16						
	Attend Resident Meeting (4 hrs/mtg x 12 meetings)		96		48			48						
6.	Structural Studies/Plans	Task Total:	5414			290		562		970		1270		2322
0610	Preliminary Bridge Engineering	Subtotal:	108			22		34		12		24		16
	Coordination with Bridge Office		28			12		16						
	Coordination with Geotechnical		20			8		12						
	Junction Chamber Design and Details (1 Detail)		60			2		6		12		24		16
0620	Structural Plans - Bull Creek Culvert	Subtotal:	418			21		38		77		104		178
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Barrel Details		92			4		8		16		24		40
	Wingwall Details (2 sheets)		124			8		12		24		32		48
	Soil Boring Sheets		3							1				2
0620	Structural Plans - Retaining Wall 1 (300' long, 10.75' tall)	Subtotal:	564			28		56		98		136		246
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design (3 sheets)		236			12		24		40		60		100
	Soldier Pile Station and Offset Table		54			2		4		8		16		24
	Retaining Wall Details		56			4		8		8		12		24
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (2 sheets)		6							2				4
0620	Structural Plans - Retaining Wall 2 (730' long, 13' tall)	Subtotal:	722			40		72		138		176		296
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design (5 sheets)		394			24		40		80		100		150
	Soldier Pile Station and Offset Table		54			2		4		8		16		24
	Retaining Wall Details		56			4		8		8		12		24
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (2 sheets)		6							2				4
0620	Structural Plans - Retaining Wall 3 (20' long, 13' tall)	Subtotal:	247			12		24		49		58		104
	Type, Size and Location Plan		61			3		6		12		16		24
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		50			2		4		8		12		24
	General Notes, Index of Sheets		21			1		2		4		6		8

Activity			Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
	Retaining Wall Plans and Design/Details (1 sheet)		92			4		8		16		24		40
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2
0620	Structural Plans - Retaining Wall 4 (160' long, 7' tall)	Subtotal:	447			22		44		81		100		200
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design/Details (2 sheets)		176			8		16		32		40		80
	Retaining Wall Details		56			4		8		8		12		24
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2
0620	Structural Plans - Retaining Wall 5 (105' long, 7' tall)	Subtotal:	447			22		44		81		100		200
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design/Details (2 sheets)		176			8		16		32		40		80
	Retaining Wall Details		56			4		8		8		12		24
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2
0620	Structural Plans - Retaining Wall 6 (320' long, 10' tall)	Subtotal:	564			28		56		98		136		246
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design (3 sheets)		236			12		24		40		60		100
	Soldier Pile Station and Offset Table		54			2		4		8		16		24
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Retaining Wall Details		56			4		8		8		12		24
	Soil Boring Sheets (2 sheets)		6							2				4
0620	Structural Plans - Retaining Wall 7 (170' long, 18' tall)	Subtotal:	454			22		45		83		100		204
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design/Details (2 sheets)		176			8		16		32		40		80
	Retaining Wall Details		56			4		8		8		12		24
	Pile Base Sheet		7					1		2				4
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2

Activity			Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
0620	Structural Plans - Retaining Wall 8 (235' long, 17.5' tall)	Subtotal:	514			26		53		91		120		224
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design/Details (3 sheets)		236			12		24		40		60		100
	Retaining Wall Details		56			4		8		8		12		24
	Pile Base Sheet		7					1		2				4
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2
0620	Structural Plans - Retaining Wall 9 (300' long, 8' tall)	Subtotal:	514			26		53		91		120		224
	Type, Size and Location Plan		92			4		8		16		24		40
	PBDHR Preparation		7			1		2		4				
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design/Details (3 sheets)		236			12		24		40		60		100
	Retaining Wall Details		56			4		8		8		12		24
	Pile Base Sheet		7					1		2				4
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2
0620	Structural Plans - Retaining Wall 10 (350' long, 6.5' tall)	Subtotal:	415			21		43		71		96		184
	General Plan and Elevation		69			3		6		12		16		32
	General Notes, Index of Sheets		31			1		2		4		8		16
	Retaining Wall Plans and Design/Details (3 sheets)		236			12		24		40		60		100
	Retaining Wall Details		56			4		8		8		12		24
	Pile Base Sheet		7					1		2				4
	Railing Base Sheet (Use of Standard Base Sheet)		13			1		2		4				6
	Soil Boring Sheets (1 sheet)		3							1				2
7.	Quantity, Specifications & Estimates	Task Total:	486		27	16	32	148	71	12	108		72	
0700	Quantity, Specifications and Estimates	Subtotal:	486		27	16	32	148	71	12	108		72	
	Quantity Calculations (Removals) (2 hrs/sheet)		58					14			14		30	
	Quantity Calculations (Earthwork) (0.25 hr/xs)		56					28	28					
	Quantity Calculations (Proposed Plan) (2 hrs/sheet)		58					14			14		30	
	Quantity Calculations (Traffic Signals)		24		3				9				12	
	Quantity Calculations (Water Resources, including water/sewer/stormwater/ESC)) (2 hrs)		120					20	20		80			
	Specifications (Roadway and General)		48		8			40						
	Specifications (Traffic Signal)		10		4				6					
	Specifications (Water Resources)		40				24	8	8					
	Specifications (Structural)		24			4	8			12				
	Estimate of Time		24		6	6		12						
	Estimate of Cost		24		6	6		12						

Activity		Grand Total	Principal	Project Manager	Lead Structural Engineer	Sr. Project Engineer	Project Engineer	Senior Engineer	Structures Engineer II	Engineer II	Structures Engineer I	Engineer I	Senior Technician
8.	Construction Assistance	Task Total:	208	48	52		92		16				
	0840 Construction Assistance	Subtotal:	208	48	52		92		16				
	CA Site Visits (3 visits during construction x 4 hrs/visit)		24	12	12								
	Assistance During Bidding		44	8	8		28						
	RFIs (Assume 2 per month x 14 months of construction x 4 hours per RFI)		112	28	28		56						
	Retaining Railing Shop Drawing Review		28		4		8		16				
9.	QC / QA	Task Total:	382	378	4								
	0900 QC / QA	Subtotal:	382	378	4								
	Water Resources QC/QA		94	94									
	Traffic Signals QC/QA		4		4								
	Roadway QC/QA		122	122									
	Structural QC/QA		162	162									
10.	Project Management & Administration	Task Total:	36	18	18								
	1000 Project Management & Administration	Subtotal:	36	18	18								
	Project Administration (1 hr/mo. x 18 mo.)		18	18									
	Project Management (1 hr/mo. x 18 mo.)		18		18								

Local Public Agency Lake County Div. of Transportation	County Lake	Section Number 19-00055-08-RS
Prime Consultant (Firm) Name Ciorba Group, Inc.	Prepared By DLD	Date 4/3/2023
Consultant / Subconsultant Name Ciorba Group, Inc.	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS			OVERHEAD RATE	145.08%
START DATE	6/5/2023				COMPLEXITY FACTOR	
RAISE DATE	1/1/2024				% OF RAISE	2.00%
END DATE	12/4/2024					

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/5/2023	1/1/2024	7	38.89%
1	1/2/2024	12/1/2024	11	62.33%

The total escalation = 1.22%

Section Number

19-00055-08-RS

Job Number

Ciorba Group, Inc.

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.22%

[illegible]

Local Public Agency	County	Section Number
Lake County Div. of Transportation	Lake	19-00055-08-RS
Consultant / Subconsultant Name		Job Number
Ciorba Group, Inc.		

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

[illegible]

Total	120,464.00	12,046.40
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NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Local Public Agency

Lake County Div. of Transportation

County

Lake

Section Number

19-00055-08-RS

Consultant / Subconsultant Name

Ciorba Group, Inc.

Job Number**DIRECT COSTS WORKSHEET**

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

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	29	\$65.00	\$1,885.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$1,885.00

DLR 05514 (Rev. 02/09/23)

Lake County Div. of Transportation

Lake

19-00055-08-RS

Ciorba Group, Inc.

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE	145.08%
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COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Meetings, Data Collection & Coord.	910	454	31,008	44,987	10,233		86,228	2.83%
Survey	390	98	4,690	6,805	1,548		13,043	0.43%
Water Resources		3150	154,909	224,742	51,120		430,771	14.13%
Electrical and Lighting		121	5,440	7,892	1,795		15,127	0.50%
Engineering Studies/Plans	390	3993	191,701	278,120	63,261		533,082	17.49%
Structural Studies/Plans		5414	262,477	380,802	86,618		729,897	23.95%
Quantity, Specifications & Estimates		486	25,309	36,718	8,352		70,379	2.31%
Construction Assistance	195	208	14,583	21,157	4,812		40,552	1.33%
QC/QC		382	32,852	47,662	10,841		91,355	3.00%
Project Management & Admin.		36	3,096	4,492	1,022		8,610	0.28%
Huff & Huff			-	-	-	69,465	69,465	2.28%
Rubino Engineering, Inc.			-	-	-	232,724	232,724	7.64%
American Surveying and Eng.			-	-	-	705,293	705,293	23.14%
Kimley-Horn			-	-	-	7,636	7,636	0.25%
			-	-	-		-	
			-	-	-		-	
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			-	-	-		-	
Subconsultant DL							\$12,046.40	0.40%
Direct Costs Total ==>	\$1,885.00						\$1,885.00	0.06%
TOTALS		14342	726,065	1,053,377	239,602	1,015,118	3,048,093	100.00%

1,779,442

BLR 05514 (Rev. 02/09/23)

COST EST

Lake County Div. of Transportation

Ciorba Group, Inc.

Lake

19-00055-08-RS

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Meetings, Data Collection & Coord.			Survey			Water Resources			Electrical and Lighting			Engineering Studies/Plans		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	86.00	396.0	2.76%	2.37															
Project Manager	86.00	333.0	2.32%	2.00	109	24.01%	20.65				24	0.76%	0.66	9	7.44%	6.40	94	2.35%	2.02
Lead Structural Engineer	86.00	398.0	2.78%	2.39	39	8.59%	7.39							1	0.83%	0.71			
Sr. Project Engineer	73.61	594.0	4.14%	3.05	100	22.03%	16.21				458	14.54%	10.70				4	0.10%	0.07
Project Engineer	57.64	2,732.0	19.05%	10.98	128	28.19%	16.25				640	20.32%	11.71	4	3.31%	1.91	1158	29.00%	16.71
Senior Engineer	47.83	1,722.0	12.01%	5.74	58	12.78%	6.11				376	11.94%	5.71	40	33.06%	15.81	1177	29.48%	14.10
Structures Engineer II	42.51	998.0	6.96%	2.96															
Engineer II	38.90	2,585.0	18.02%	7.01	16	3.52%	1.37				1652	52.44%	20.40				809	20.26%	7.88
Structures Engineer I	37.45	1,270.0	8.86%	3.32															
Engineer I	36.36	800.0	5.58%	2.03	4	0.88%	0.32	16	16.33%	5.94				67	55.37%	20.13	641	16.05%	5.84
Senior Technician	50.11	2,514.0	17.53%	8.78				82	83.67%	41.92							110	2.75%	1.38
Technician II	39.98	0.0																	
		0.0																	
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TOTALS		14342.0	100%	\$50.63	454.0	100.00%	\$68.30	98.0	100%	\$47.86	3150.0	100%	\$49.18	121.0	100%	\$44.96	3993.0	100%	\$48.01

Lake County Div. of Transportation

Ciorba Group, Inc.

Lake

19-00055-08-RS

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Structural Studies/Plans			Quantity, Specifications & Estimates			Construction Assistance			QC/QC			Project Management & Admin.					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	86.00										378	98.95%	85.10	18	50.00%	43.00			
Project Manager	86.00				27	5.56%	4.78	48	23.08%	19.85	4	1.05%	0.90	18	50.00%	43.00			
Lead Structural Engineer	86.00	290	5.36%	4.61	16	3.29%	2.83	52	25.00%	21.50									
Sr. Project Engineer	73.61				32	6.58%	4.85												
Project Engineer	57.64	562	10.38%	5.98	148	30.45%	17.55	92	44.23%	25.49									
Senior Engineer	47.83				71	14.61%	6.99												
Structures Engineer II	42.51	970	17.92%	7.62	12	2.47%	1.05	16	7.69%	3.27									
Engineer II	38.90				108	22.22%	8.64												
Structures Engineer I	37.45	1270	23.46%	8.79															
Engineer I	36.36				72	14.81%	5.39												
Senior Technician	50.11	2322	42.89%	21.49															
Technician II	39.98																		
TOTALS		5414.0	100%	\$48.48	486.0	100%	\$52.08	208.0	100%	\$70.11	382.0	100%	\$86.00	36.0	100%	\$86.00	0.0	0%	\$0.00



A Subsidiary of GZA

GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION
MANAGEMENT

915 Harger Road
Suite 330
Oak Brook, IL 60523
T: 630.684.9100
F: 630.684.9120
www.huffnhuff.com
www.gza.com



March 20, 2023

Ms. Diana Decker, PE
Vice President – Roadway
Ciorba Group
8725 W. Higgins Road, Suite 600
Chicago, Illinois 60631

via email: ddecker@ciorba.com

**Re: Phase II Environmental Engineering Services (Wetlands, Bat Assessment, PSI, CCDD)
Wadsworth Road 3R Project
Beach Park, Lake County, Illinois
Proposal No. 81.P013003.24**

Dear Ms. Decker:

Huff & Huff, Inc. (H&H), a subsidiary of GZA, Inc. (Consultant), is pleased to submit this proposal to Ciorba Group (Client) to conduct Phase II environmental services for the proposed Wadsworth Road project located in Beach Park, Lake County, Illinois. Proposed services include Wetland Delineation and Reporting and Preliminary Environmental Site Assessment (PESA) Validation, a Preliminary Site Investigation (PSI) including assessment and documentation for consideration of final disposition of spoils at a clean construction or demolition debris (CCDD) or uncontaminated soil fill operation (USFO) facility, and Bat Assessment. This proposal presents our Project Understanding, Scope of Services, Level of Effort and Schedule, and Acceptance for completing the project. Costs, and Terms and Conditions are presented as attachments.

1. PROJECT UNDERSTANDING

H&H understands that Client has been retained by City to develop a proposal for Phase II Design for the proposed project along Wadsworth Road in Beach Park, Lake County, Illinois. H&H completed a wetland delineation and PESA for Phase I of the project in 2020. The project limits along Wadsworth Road extend from just east of the intersection with Green Bay Road to just east of Sheridan Road. The Sheridan Road intersection was not included in the 2020 delineation and will be added in the update to construct ADA ramps and pedestrian traffic signal installation. The section between Green Bay Road and Lewis Avenue is proposed to have milling and resurfacing. The project will follow IDOT Bureau of Local Roads and Streets (BLRS) policies.

2. SCOPE OF SERVICES

Task 1: Wetland Delineation

H&H proposes to update the wetland delineation completed in 2020 for all areas within the Project Corridor in accordance with:

- The USACE *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*, (Supplemental Wetland Manual); and
- The February 25, 2022 USACE Nationwide Permit Program (NWP)
- The October 13, 2020 edition of the Lake County WDO.



In preparing this proposal, H&H has made the following assumptions:

- A Preliminary Jurisdictional Determination/Boundary Verification fee, if required, is not included in this scope of work;
- Wetland mitigation design, plan preparation, monitoring, or management services are not included in this proposal; and
- Wetland permitting is not included in this scope of services. This includes USACE and Lake County. If permitting with any of these agencies is required, a separate scope of services and cost estimate will be prepared.
- There are no additional environmental concerns within the Project Corridor not referenced in this proposal that would impede the USACE and Lake County WDO coordination and permitting process, such as the presence of state and federal endangered and threatened species, protected historical and cultural sites, and environmental due diligence.

A. Off-Site Record/Document Review

The following records/documents will be reviewed prior to conducting field investigations. Soils information will be reviewed to determine the soil types encountered during the delineation procedures. The resources to be reviewed and used include:

- Aerial Photographs;
- U.S. Geological Survey (USGS) Topographic Maps;
- U.S. Fish and Wildlife Service (USFWS), National Wetland Inventory (NWI) Maps;
- Lake County Wetland Inventory Maps;
- Lake County ADID Wetland Maps;
- Natural Resources Conservation Services (NRCS), Soil Survey of Lake County;
- Hydric Soils of the United States;
- Federal Emergency Management Agency (FEMA), Flood Insurance Rate Maps (FIRM); and
- USGS Hydrologic Atlases.

B. On-Site Investigation (Field Inventory)

H&H will update the wetland delineation for all wetlands within the Project Corridor. Wetland delineation field investigation activities include on-site testing for the presence of hydric soils, hydrophytic vegetation, and sufficient hydrology. A floristic quality assessment (FQA) will be conducted for each identified wetland. Functions of wetlands based on field observations will also be evaluated during the on-site investigation. Wetland and surface water perimeters within the Project Area will be surveyed by H&H in the field using Global Positioning System (GPS). A wetland and surface water boundary map will be derived from the GPS survey of these features. Shapefiles of the surveyed areas will be provided. H&H typically conducts GPS survey for all wetlands and surface waters to provide information to complete the report exhibits. In addition to GPS, H&H will flag the wetland boundaries for Lake County's Boundary Verification.

Time is included for a field meeting with Lake County to complete a Boundary Verification.

C. Wetland Report

A Wetland Delineation Report will be prepared summarizing the findings of the desktop review and the on-site investigation. This report will be submitted to the Client as a PDF only. The shapefiles of the wetland boundaries as surveyed in the field will also be provided to the Client via email. Specific items to be included in the report are as follows:

- Map identifying the Project Area and the wetland and surface water boundaries;



- Aerial photographs with the limits of delineated wetlands, surface waters, and data points;
- USACE data sheets with color photos of the vegetation, soils, and wetlands at each data point;
- Floristic Quality Assessment (FQA) table with associated native Floristic Quality Index (FQI) and mean native Coefficient of conservatism (C-value) calculations;
- Written description of wetland functional classification;
- Permitting summary;
- Jurisdictional summary;
- Identification of 303(d) impaired waterways; and
- Mitigation requirements and options.

Task 2: Preliminary Environmental Site Assessment (PESA) Validation

The PESA was completed September 30, 2020 with fifteen (15) sites identified a potentially impacted property (PIPs). Since greater than 180 days and less than 3-years have lapsed since the PESA, a PESA will Validation be completed to perform a re-evaluation of the project area to check for the possibility of new reported releases or incidents to assess if land uses have changed since the PESA was originally drafted. Validation is required GZA for PESAs that are greater than 6-months old and less than 3 years old. GZA will conduct a PESA Validation for the local roads portion of the project corridor and the process will follow general protocols contained within:

- A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation (IDOT) Highway Projects (Erdmann et al., 2012)
- ASTM International (ASTM) standard 1527-13
- The IDOTs Bureau of Design and Environment (BDE) Procedure Memorandum Number 10-07, *Special Waste Procedures*. This memo was incorporated into Chapter 27-3 of the IDOT BDE Manual in June 2012.
- IDOT Bureau of Local Roads and Streets (BLRS) Manual, Chapter 20-12, Special Waste, July 2013.
- Public Act 96-1416
- Clean Construction or Demolition Debris Fill Operations (CCDD) and Uncontaminated Soil Fill Operations: Amendments to 35 Illinois Administrative Code 1100. Effective on August 27, 2012.

A. Historical Research

The site's historical land use/ownership record will be developed from review of the previously completed PESA.

B. Site Evaluation

Current environmental features and conditions of sites adjacent to the right-of-way/project area (local, non-IDOT jurisdiction) will be evaluated. A site walkover of potential right-of-way/project areas designated for excavation and/or acquisition will be conducted for first-hand evaluation of current environmental conditions within the project limits. All of the features and conditions listed above will be investigated and, as appropriate, documented in photographs. The land-use and housekeeping practices of adjacent properties also will be evaluated in accordance with ASTM protocols.

C. Records Review

A records review will be conducted to determine potential environmental concerns within the study area. It will include a search of standard state and federal environmental record databases in accordance with the specifications of ASTM standards. This search is based on the outline of the study area. Specifically, Consultant will search each database to identify any potential sources requiring further investigation. As appropriate, Freedom of Information Act (FOIA) requests will be filed with the IEPA to obtain additional data pertaining to identified sites.



D. Report Preparation

One letter report summarizing the results of the evaluation will be prepared. The summary will reference the previous PESA and identify PIPs. Figures identifying the revised project area and will be included in the letter report.

Task 3: Preliminary Site Investigation (PSI) with LPC663 CCDD Documentation

A. Soil Borings and Soil Sampling

It is anticipated that up to three (3) days of field effort will be required with up to thirty-three (33) soil borings completed, assumed with the aid of a drilling (GeoProbe) subcontractor and traffic control services for work completed along Wadsworth Road. The borings will be advanced and soil samples collected for laboratory analysis to address sites identified as RECs/PIPs and for full project coverage of non-REC/PIP for soil disposal considerations, specifically at locations identified for proposed excavation. The depths of the soil borings will be dependent upon design details to account for depths of proposed disturbance. Consultant will finalize depths of planned borings prior to mobilization consistent with project plans as provided by Client, in conjunction with PESA findings. Currently it is estimated that borings will be advanced to approximately 8 to 10 feet below ground surface. Samples will be collected in 2- to 5-foot intervals for field screening and select samples prepared for laboratory analysis as discussed below.

In addition, since disturbance to sediment is anticipated, we propose to collect samples from two (2) locations within the stream just east of North Avenue, one each upstream and downstream of the culvert.

B. Analytical

A total of thirty-three (33) soil boring locations are proposed and we anticipate analyzing one (1) sample in each of the thirty-three (33) borings, plus the two (2) sediment samples for a total of up to thirty-five (35) samples to be analyzed for the contaminants of concern (COCs) per IDOT protocol, which include:

- 22 Total metals (Target Analyte List (TAL) minus Aluminum)
- SPLP/TCLP Metals (8 RCRA and Be, Co, Cu, Fe, Mn, Ni, and Zn)
- Volatile organic compounds (VOCs)
- Semi-volatile organic compounds (SVOCs)
- Soil pH

C. PSI Report Preparation

A report summarizing the results of the soil and sediment sample collection activities and analytical results will be prepared. This document will present information pertinent for the bidding documents regarding conditions of soils tested, handling and final disposition considerations.

D. CCDD (LPC-Form) Documentation and CCDD Facility Coordination

The soil sample results will be compared to the Maximum Allowable Concentrations (MACs) associated with CCDD facility acceptance, including the soil pH range of 6.25 to 9.0. If results achieve the MAC values, GZA will prepare the LPC-663 document that will be signed/stamped by the GZA. Any locations that do not achieve the MACs (including soil pH range) will be identified as exclusion zones, not acceptable for CCDD facility disposal. GZA will coordinate with at least three CCDD facilities to seek a review and if acceptable, provide pre-authorization letters for inclusion in the bidding documents, including Thelen Sand & Gravel.



Task 4: Bat Assessment

H&H will complete a bat assessment for bridges and culverts greater than 48" tall, utilizing the USFWS Appendix D: Bridge/Structure Bat Assessment Form. This task will be completed during the wetland delineation field visits. The forms will be provided to Ciorba and LCDOT for use documenting evidence of bat occupancy.

Task 5: Project Management

Time under this task includes project administration and management activities that include cost and schedule tracking; coordination with Client on authorized activities; memo production and other in-house management activities; and project closeout.

Task 6: QA/QC

Time under this task includes Quality Assurance/Quality Control (QA/QC) time for the reports as described above.

3. LEVEL OF EFFORT AND SCHEDULE

The fee for the currently proposed scope of services is included on the attached IDOT cost plus fixed fee (CPFF) worksheets. The wetland delineation work be completed during the 2023 growing season, approximately between May 15th and October 1st, and anticipated completion of the Wetland Delineation Report within six weeks of completion of the field work. PESA Validation work will commence within 5 days of the notice to proceed and will require five weeks to complete. The PSI will commence upon completion of the PESA Validation and will require up to 10 weeks to complete. If an expedited schedule is necessary, H&H will coordinate with Client to establish a schedule that is appropriate for the project needs.

Conditions of Engagement

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. H&H's reports will be prepared on behalf of and for the exclusive use of Client. Client acknowledges and agrees that the report and the findings in the report shall not, in whole or in part, be disseminated or conveyed to any other party, or used or relied upon by any other party, in whole or in part, except for the specific purpose and to the specific parties alluded to above, without the written consent of H&H. H&H would be pleased to discuss the conditions associated with any additional dissemination, use, or reliance by other parties.

4. ACCEPTANCE

CONDITIONS OF ENGAGEMENT

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. H&H's report will be prepared on behalf of and for the exclusive use of Client. Client acknowledges and agrees that the report and the findings in the report shall not, in whole or in part, be disseminated or conveyed to any other party, or used or relied upon by any other party, in whole or in part, except for the specific purpose and to the specific parties alluded to above, without the written consent of H&H. H&H would be pleased to discuss the conditions associated with any additional dissemination, use, or reliance by other parties.

ACCEPTANCE

This agreement may be accepted by signing in the appropriate space below and returning one complete copy to H&H. Issuance of a Purchase Order implicitly acknowledges acceptance of this proposal. This proposal is valid for a period of 30 days from the date of issue.



We appreciate the opportunity to submit this proposal. Please feel free to contact the undersigned at (630) 684-9100 with any questions.

Very truly yours,

Huff & Huff, Inc.

Jeremy J. Reynolds, P.G.
Associate Principal/Vice President

Alycia Klueenberg
Senior Project Manager

Attachments: Terms and Conditions

This Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services are hereby accepted and executed by a duly authorized signatory, who by execution hereof, warrants that he/she has full authority to act for, in the name, and on behalf of _____.

By: _____

Title: _____

Printed/Typed Name: _____

Date: _____

The Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services may be executed in two or more counterparts, each of which together shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by an e-mail delivery of a document in “.pdf” format, each such signature shall create a valid and binding obligation of the party executing the document, or on whose behalf each document is executed, with the same force and effect as if each such facsimile or “.pdf” signature were an original thereof.



Site ID	Address	Status	Site ID	Address	Status	Site ID	Address	Status
1	38980 N Green Bay Rd	PIP	9	12484 Wadsworth Rd	PIP	18	N/A	PIP
2	12726 W Wadsworth Rd, Unit D	PIP	11	11270B W Wadsworth	PIP	19	10655 W Wadsworth Rd	PIP
3	38947 N Green Bay Rd	PIP	14	2326 Wadsworth Rd, Unit B2	PIP	20	N/A	PIP
7	2432 W Wadsworth Rd	PIP	16	11315 W. Wadsworth Rd.	PIP	22	Wadsworth & Sheridan	PIP
8	2930 Aviation Dr	PIP	17	11043 W Wadsworth Rd	PIP	23	39161 SHERIDAN RD	PIP

01,0002,000

Feet

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S

Aerial Source: ESRI Online World Imagery

Legend

Project Limits

PIP

Huff & Huff, Inc.

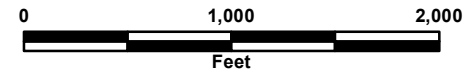
Figure 6-1

Potentially Impacted Properties Map

Wadsworth Road PESA

Beach Park, Lake County, Illinois

Sheet 1 of 3



Aerial Source: ESRI Online World Imagery

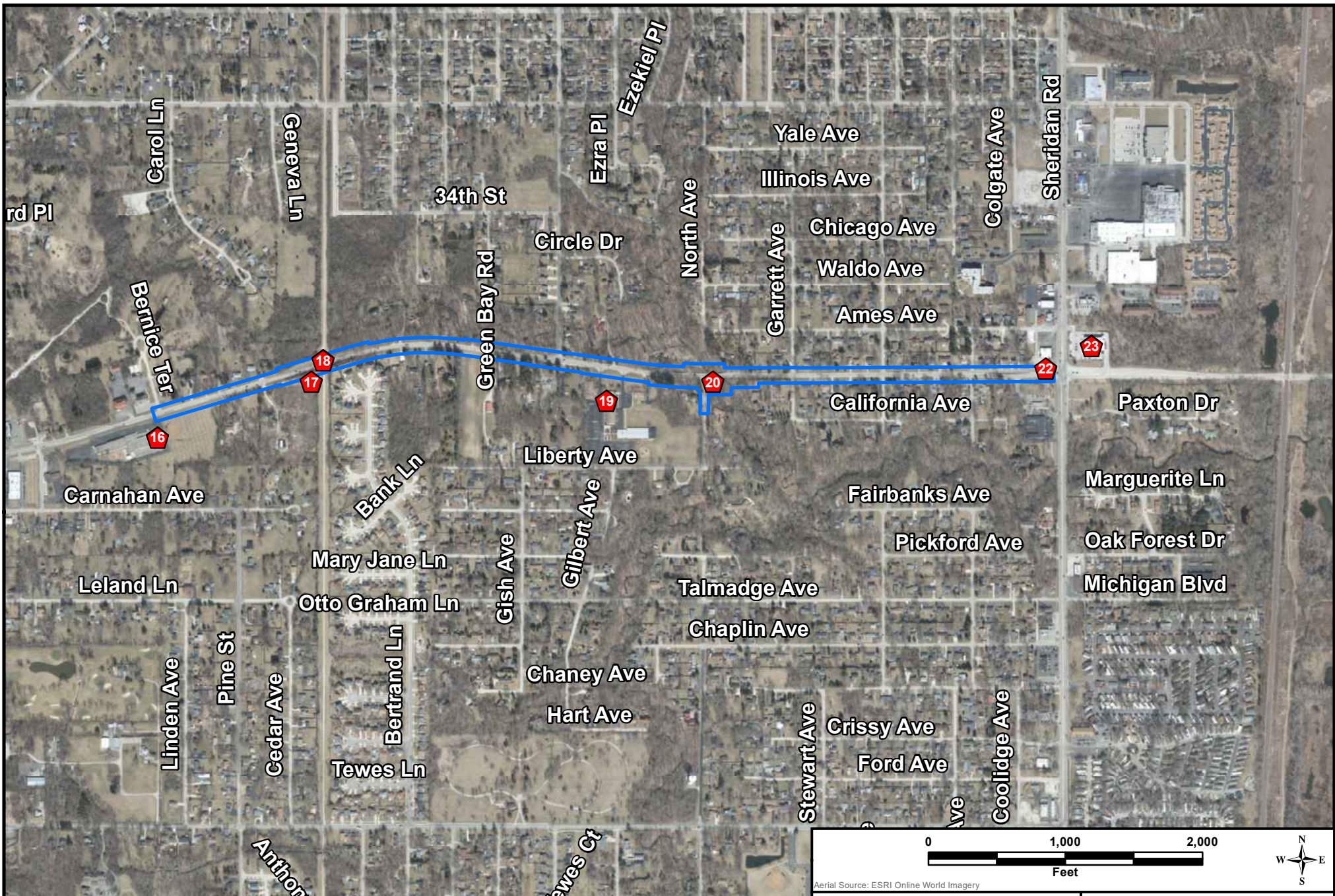
Site ID	Address	Status	Site ID	Address	Status	Site ID	Address	Status
1	38980 N Green Bay Rd	PIP	9	12484 Wadsworth Rd	PIP	18	N/A	PIP
2	12726 W Wadsworth Rd, Unit D	PIP	11	11270B W Wadsworth	PIP	19	10655 W Wadsworth Rd	PIP
3	38947 N Green Bay Rd	PIP	14	2326 Wadsworth Rd, Unit B2	PIP	20	N/A	PIP
7	2432 W Wadsworth Rd	PIP	16	11315 W. Wadsworth Rd.	PIP	22	Wadsworth & Sheridan	PIP
8	2930 Aviation Dr	PIP	17	11043 W Wadsworth Rd	PIP	23	39161 SHERIDAN RD	PIP

Legend

- Project Limits
- PIP

Huff & Huff, Inc.

Figure 6-1
Potentially Impacted Properties Map
Wadsworth Road PESA
Beach Park, Lake County, Illinois
Sheet 2 of 3



Site ID	Address	Status	Site ID	Address	Status	Site ID	Address	Status
1	38980 N Green Bay Rd	PIP	9	12484 Wadsworth Rd	PIP	18	N/A	PIP
2	12726 W Wadsworth Rd, Unit D	PIP	11	11270B W Wadsworth	PIP	19	10655 W Wadsworth Rd	PIP
3	38947 N Green Bay Rd	PIP	14	2326 Wadsworth Rd, Unit B2	PIP	20	N/A	PIP
7	2432 W Wadsworth Rd	PIP	16	11315 W. Wadsworth Rd.	PIP	22	Wadsworth & Sheridan	PIP
8	2930 Aviation Dr	PIP	17	11043 W Wadsworth Rd	PIP	23	39161 SHERIDAN RD	PIP

Legend

Project Limits

◆ **PIP**

Huff & Huff, Inc.

Figure 6-1
Potentially Impacted Properties Map
Wadsworth Road PESA
Beach Park, Lake County, Illinois
Sheet 3 of 3

Wadsworth Road

Phase II PSI/CCDD West

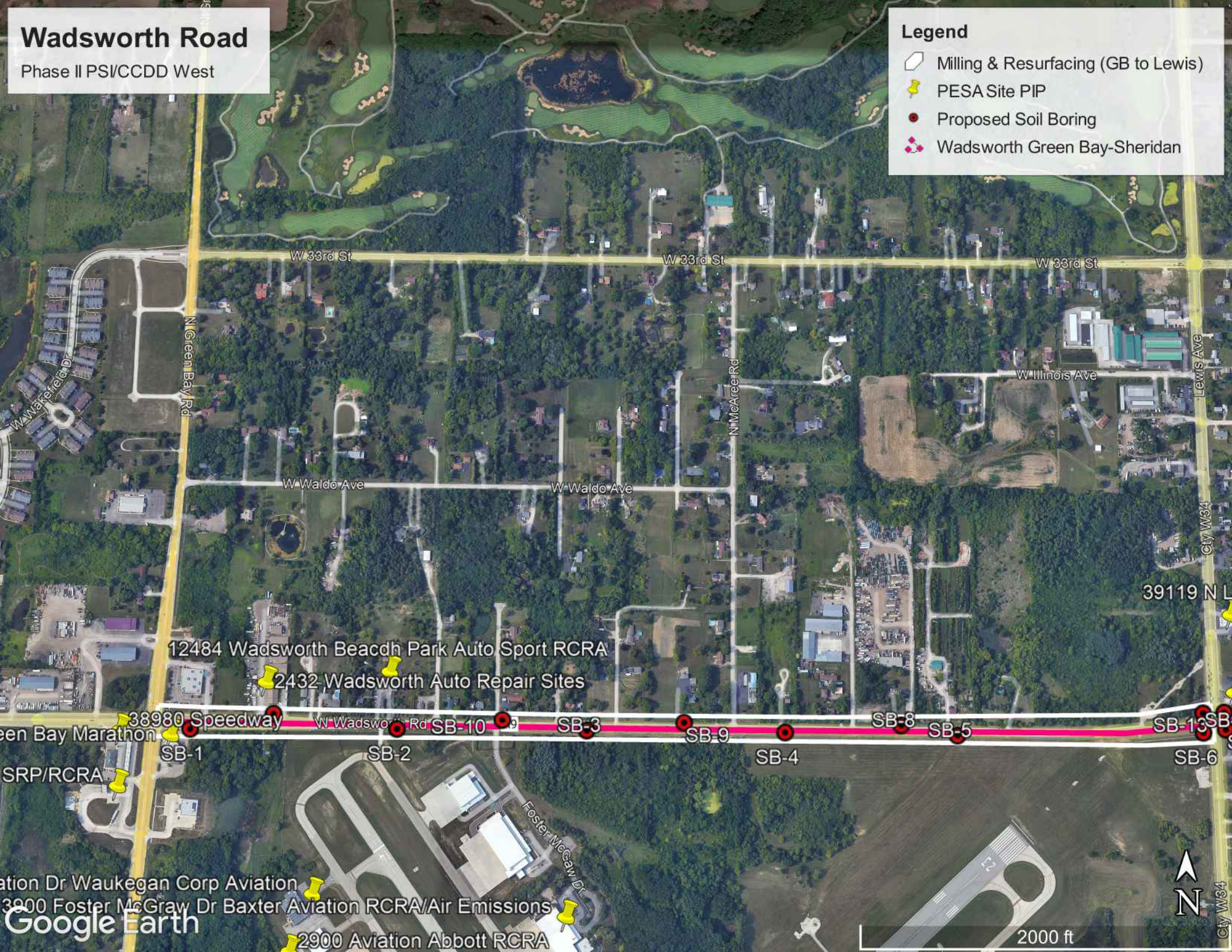
Legend

Milling & Resurfacing (GB to Lewis)

PESA Site PIP

Proposed Soil Boring

Wadsworth Green Bay-Sheridan

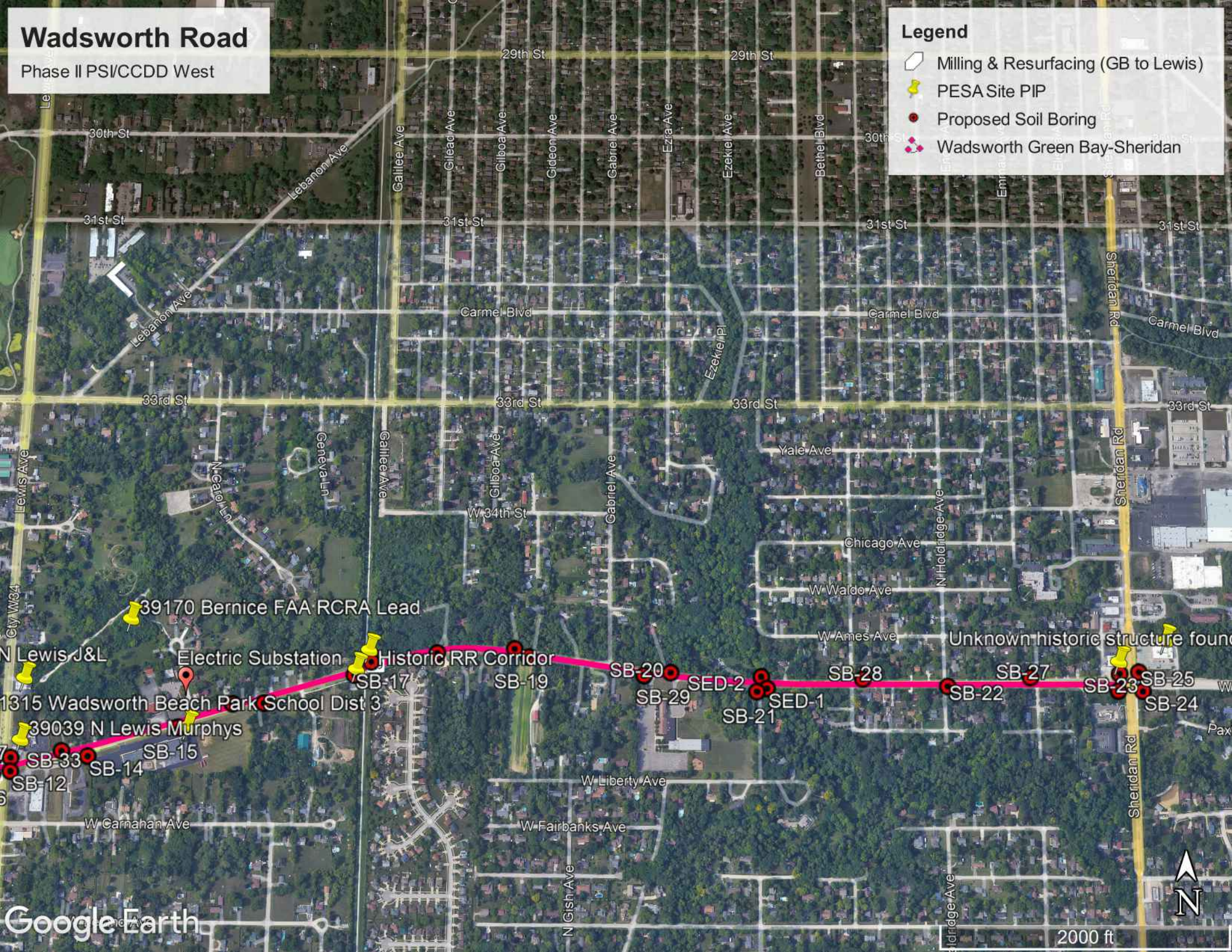


Wadsworth Road

Phase II PSI/CCDD West

Legend

-  Milling & Resurfacing (GB to Lewis)
-  PESA Site PIP
-  Proposed Soil Boring
-  Wadsworth Green Bay-Sheridan





Local Public Agency Lake County DOT	County Lake	Section Number 19-00055-08-RS
Prime Consultant (Firm) Name Ciorba Group	Prepared By Alycia Klunenberg	Date 3/20/2023
Consultant / Subconsultant Name Huff & Huff, Inc., a subsidiary of GZA	Job Number TBD	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	190.00%
START DATE	6/5/2023		COMPLEXITY FACTOR	0
RAISE DATE	3/1/2024		% OF RAISE	2.00%
END DATE	12/4/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/5/2023	3/1/2024	9	50.00%
1	3/2/2024	12/1/2024	9	51.00%

The total escalation = 1.00%

Local Public Agency	County	Section Number
Lake County DOT	Lake	19-00055-08-RS
Consultant / Subconsultant Name	Job Number	
Huff & Huff, Inc., a subsidiary of GZA	TBD	

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	1.00%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Associate Principal III	\$78.95	\$79.74
Associate Principal II	\$72.15	\$72.87
Associate Principal I	\$68.96	\$69.65
Senior Consultant II	\$78.93	\$79.72
Senior Consultant I	\$43.23	\$43.66
Senior Project Manager III	\$68.98	\$69.67
Senior Project Manager II	\$57.05	\$57.62
Senior Project Manager I	\$53.92	\$54.46
Senior Landscape Architect	\$59.54	\$60.14
Senior Planning PM	\$56.62	\$57.19
Senior Technical Specialist I	\$55.05	\$55.60
Senior Scientist PM II	\$57.08	\$57.65
Senior Technical Scientist	\$54.50	\$55.05
Scientist PM II	\$50.19	\$50.69
Scientist PM I	\$42.59	\$43.02
Assistant PM Scientist	\$37.61	\$37.99
Environmental Engineer PM II	\$49.99	\$50.49
Environmental Engineer PM I	\$45.00	\$45.45
Geotechnical Engineer PM I	\$48.28	\$48.76
Assistant PM Engineer I	\$44.19	\$44.63
Engineer II	\$30.25	\$30.55
Engineer I	\$34.27	\$34.61
Scientist S1	\$31.72	\$32.04
Technical Graphics Technician	\$25.96	\$26.22
Administrative Manager	\$48.89	\$49.38
Senior Administrative Assistant	\$34.50	\$34.85
Lead Word Processor	\$42.39	\$42.81

Local Public Agency	County	Section Number
Lake County DOT	Lake	19-00055-08-RS
Consultant / Subconsultant Name		Job Number
Huff & Huff, Inc., a subsidiary of GZA		TBD

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

[illegible]

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

Local Public Agency

Lake County DOT

County

Lake

Section Number

19-00055-08-RS

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA

Job Number

TBD

DIRECT COSTS WORKSHEET

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

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	1120	\$0.66	\$733.60
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost	7	\$6.80	\$47.60
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)		\$6,750.00	\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)	35	\$760.00	\$26,600.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)	1	\$100.00	\$100.00
PID and Field Kit	Daily Rate (\$100 + \$30/day)	3	\$130.00	\$390.00
Database Package 2.75 Mile Corridor	Actual Cost	1	\$500.00	\$500.00
Driller	Daily Rate (\$2750/day)		\$8,250.00	\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$28,371.20

Local Public Agency

Lake County DOT

County

Lake

Section Number

19-00055-08-RS

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA

Job Number

TBD

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE **190.00%**COMPLEXITY FACTOR **0**

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Task 1: Wetland Delineation Update	112	59	2,207	4,193	728	0	7,128	10.26%
Task 2: PESA Validation	612	30	1,020	1,938	337	0	3,295	4.74%
Task 3: PSI/CCDD	27,536	95	3,255	6,184	1,074	15,000	25,513	36.73%
Task 4: Bat Assessment	112	12	456	866	150	0	1,472	2.12%
Task 5: QA/QC	0	13	840	1,596	277	0	2,713	3.91%
Task 6: PM	0	6	301	573	99	0	973	1.40%
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$28,371.20						\$28,371.20	40.84%
TOTALS		215	8,079	15,350	2,665	15,000	69,465	100.00%

23,429

Local Public Agency

Lake County DOT

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA

County

Lake

Section Number

19-00055-08-RS

Job Number

TBD

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

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 1: Wetland Delineation Update			Task 2: PESA Validation			Task 3: PSI/CCDD			Task 4: Bat Assessment			Task 5: QA/QC		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Associate Principal III	79.74	0.0																	
Associate Principal II	72.87	2.0	0.93%	0.68													2	15.38%	11.21
Associate Principal I	69.65	6.0	2.79%	1.94							1	1.05%	0.73				5	38.46%	26.79
Senior Consultant II	79.72	0.0																	
Senior Consultant I	43.66	0.0																	
Senior Project Manager III	69.67	0.0																	
Senior Project Manager II	57.62	0.0																	
Senior Project Manager I	54.46	0.0																	
Senior Landscape Architect	60.14	0.0																	
Senior Planning PM	57.19	0.0																	
Senior Technical Specialist I	55.60	0.0																	
Senior Scientist PM II	57.65	8.0	3.72%	2.15	2	3.39%	1.95										6	46.15%	26.61
Senior Technical Scientist	55.05	3.0	1.40%	0.77															
Scientist PM II	50.69	0.0																	
Scientist PM I	43.02	12.0	5.58%	2.40				2	6.67%	2.87	10	10.53%	4.53						
Assistant PM Scientist	37.99	74.0	34.42%	13.07	50	84.75%	32.19	2	6.67%	2.53	10	10.53%	4.00	12	100.00%	37.99			
Environmental Engineer PM II	50.49	0.0																	
Environmental Engineer PM I	45.45	3.0	1.40%	0.63															
Geotechnical Engineer PM I	48.76	0.0																	
Assistant PM Engineer I	44.63	0.0																	
Engineer II	30.55	33.5	15.58%	4.76							33.5	35.26%	10.77						
Engineer I	34.61	53.5	24.88%	8.61				20	66.67%	23.08	33.5	35.26%	12.21						
Scientist S1	32.04	0.0																	
Technical Graphics Technician	26.22	17.0	7.91%	2.07	6	10.17%	2.67	5	16.67%	4.37	6	6.32%	1.66						
Administrative Manager	49.38	0.0																	
Senior Administrative Assistant	34.85	3.0	1.40%	0.49	1	1.69%	0.59	1	3.33%	1.16	1	1.05%	0.37						
Lead Word Processor	42.81	0.0																	
TOTALS		215.0	100%	\$37.58	59.0	100.00%	\$37.40	30.0	100%	\$34.01	95.0	100%	\$34.26	12.0	100%	\$37.99	13.0	100%	\$64.61

Local Public Agency

Lake County DOT

County

Lake

Section Number

19-00055-08-RS

Consultant / Subconsultant Name

Huff & Huff, Inc., a subsidiary of GZA

Job Number

TBD

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

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Task 6: PM																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Associate Principal III	79.74																		
Associate Principal II	72.87																		
Associate Principal I	69.65																		
Senior Consultant II	79.72																		
Senior Consultant I	43.66																		
Senior Project Manager III	69.67																		
Senior Project Manager II	57.62																		
Senior Project Manager I	54.46																		
Senior Landscape Architect	60.14																		
Senior Planning PM	57.19																		
Senior Technical Specialist I	55.60																		
Senior Scientist PM II	57.65																		
Senior Technical Scientist	55.05	3	50.00%	27.52															
Scientist PM II	50.69																		
Scientist PM I	43.02																		
Assistant PM Scientist	37.99																		
Environmental Engineer PM II	50.49																		
Environmental Engineer PM I	45.45	3	50.00%	22.73															
Geotechnical Engineer PM I	48.76																		
Assistant PM Engineer I	44.63																		
Engineer II	30.55																		
Engineer I	34.61																		
Scientist S1	32.04																		
Technical Graphics Technician	26.22																		
Administrative Manager	49.38																		
Senior Administrative Assistant	34.85																		
Lead Word Processor	42.81																		
TOTALS		6.0	100%	\$50.25	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

HUFF & HUFF, INC.
SUMMARY OF DIRECT COSTS
Project: Wadsworth Road Phase II

										<u>DIRECT</u>
Task 1 - Wetland Delineation										
Trips	160 miles	x	1	x	\$	0.655	=	\$		104.80
Tolls			1	x	\$	6.80	=	\$		6.80
				x	\$	375.00	=	\$		-
Task Total										\$ 111.60
Task 2 - PESA Validation										
Trips	160 miles	x	1	x	\$	0.655	=	\$		104.80
Tolls			1	x	\$	6.80	=	\$		6.80
Database Package	2.75 miles		1	x	\$	500.00	=	\$		500.00
Federal Express			0	x	\$	20.00	=	\$		-
			0	x	\$	-	=	\$		-
Task Total										\$ 611.60
Task 3 - PSI and CCDD										
Trips	160 miles	x	4	x	\$	0.655	=	\$		419.20
Tolls			4	x	\$	6.80	=	\$		27.20
PID	1 day	x	3	x	\$	100.00	=	\$		300.00
GPS	1 day	x	1	x	\$	100.00	=	\$		100.00
Field Kit	1 day	x	3	x	\$	30.00	=	\$		90.00
LAB=EMT								\$		-
VOCs	1 ea	x	35	x	\$	90.00	=	\$		3,150.00
SVOCs	1 ea	x	35	x	\$	180.00	=	\$		6,300.00
TOTAL TAL MET/	1 ea	x	35	x	\$	150.00	=	\$		5,250.00
SPLP METALS	1 ea	x	35	x	\$	160.00	=	\$		5,600.00
TCLP METALS	1 ea	x	35	x	\$	160.00	=	\$		5,600.00
pH	1 ea	x	35	x	\$	20.00	=	\$		700.00
cost/sample			0	x	\$	760.00	=	\$		-
Task Total										\$ 27,536.40
Task 4 - Bat Assessment										
Trips	160 miles	x	1	x	\$	0.655	=	\$		104.80
Tolls			1	x	\$	6.80	=	\$		6.80
			0	x	\$	-	=	\$		-
Task Total										\$ 111.60
Task 5 - Project Management										
			0	x	\$	-	=	\$		-
Task Total										\$ -
Task 6 - QAQC										
			0	x	\$	-	=	\$		-
Task Total										\$ -
GRAND TOTAL										\$ 28,371.20

HUFF & HUFF, INC.
SUMMARY OF SERVICES BY OTHERS
Project: Wadsworth Road Phase II

OUTSIDE

Task 1 - Wetland Delineation

<hr/>	0 x	\$	-	=	\$	-
			Task Total		\$	-

Task 2 - PESA Validation

<hr/>	0 x	\$	-	=	\$	-
			Task Total		\$	-

Task 3 - PSI and CCDD

Driller (day)	3 x	\$	2,750.00	=	\$	8,250.00
Traffic Control (day)	3 x	\$	2,250.00	=	\$	6,750.00
<hr/>	0 x	\$	-	=	\$	-
			Task Total		\$	15,000.00

Task 4 - Bat Assessment

<hr/>	0 x	\$	-	=	\$	-
			Task Total		\$	-

Task 5 - Project Management

<hr/>	0 x	\$	-	=	\$	-
			Task Total		\$	-

Task 6 - QAQC

<hr/>	0 x	\$	-	=	\$	-
			Task Total		\$	-

GRAND TOTAL	\$ 15,000.00
--------------------	---------------------



May 2, 2023

To: **Diana Decker, PE**
Vice President - Roadway
P 773.355.2952
C 224.383.4872



8725 W. Higgins Road, Suite 600
Chicago, IL 60631
773.775.4009

Re: Proposal - Geotechnical Exploration
Proposed Wadsworth Rd (County Hwy 17)
Retaining Walls (RW1 through RW9)
Section 19-00055-08-RS

Proposal No. Q23.138g_REV1

Via email: ddecker@ciorba.com

Dear Ms. Decker,

Rubino Engineering, Inc. (Rubino) is pleased to submit the following proposal to provide geotechnical engineering services for the above referenced project.

PROJECT UNDERSTANDING

Rubino understands that Ciorba Group is planning to begin Phase II of the Wadsworth Road rehabilitation project. Rubino Engineering previously completed geotechnical exploration for a portion of this project. Ciorba Group has requested further geotechnical exploration for the remaining retention walls proposed along this project. Please see below for details.

Geotechnical exploration previously completed by Rubino Engineering:

- Structural Geotechnical Report (SGR) – G20.102 dated January 28, 2022
 - Retaining Wall 1 (RW1): 109+00 to 112+20 – Boring RWB-01
 - Retaining Wall 2 (RW2): 112+20 to 113+90 – Boring RWB-02
 - Retaining Wall 3 (RW3): 112+80 to 115+15 – Boring RWB-03
- Roadway Geotechnical Report (RGR) – G20.102 dated February 4, 2022
 - Roadway resurfacing and pavement widening – Borings B-01 to B-13, Cores C-01 to C-13

Proposed geotechnical exploration will include borings for the proposed retaining walls RW4 through RW9 as well as additional borings for retaining walls RW1, RW2, and RW3. Please see the Boring Depths section for details on proposed boring locations and depths.

Information received:

- RFP Email from Diana Decker of Ciorba Group on March 14, 2023.
- Retaining Wall Type Study Memo - "G_RW-TechMemo-Revised_2-17-2023-FINAL_reduced" dated February 17, 2023 from Ciorba Group
- Proposed Plan and Profile for the Wadsworth Rd improvements – "0_Wadsworth_Final Report" dated February 9, 2023 from Ciorba Group

Revision Request:

- Revision email from Diana Decker of Ciorba Group on April 25, 2023
- Revision to include additional sign and detention pond borings
- Revise retaining wall nomenclature to match Ciorba
- Include Retaining Wall 9 and Retaining Wall 10 into proposal

Design Criteria received per the Retaining Wall Type Study Memo:

- Retaining wall average heights will vary between 7 and 17 ½ feet (Per the Geo Manual, “For retaining walls with a maximum exposed height of 7 feet or less, the need for borings vary depending on the type, size, location, and function of the wall.”)
- Retaining Wall Length ranges from 105 to 300 feet in length on the north side and from 20 to 400 feet in length along the south side of Wadsworth Road.
- Proposed wall types include Drilled Soldier Pile Wall and CIP Concrete Wall

Should any of the information on which this proposal has been based, including as described above, be inconsistent with the planned construction, Rubino requests to be contacted immediately in order to make any necessary changes to this proposal and scope of work.

SCOPE OF SERVICES

The following sections outline the scope of services developed based on the information provided by the client and the information listed above in order to provide a geotechnical exploration the planned project. The exploration will be performed in general accordance with both the requested proposal information and Rubino’s current understanding of the project.

Site Access and Traffic Control

Based on current site topography, surface conditions, and project discussions, Rubino anticipates that the project site will be accessible to track-mounted Geoprobe 7822DT drilling equipment.

Traffic control will consist of cones, approach signage, and flaggers. Rubino anticipates that the drill rig will require full lane closure.

Boring Depths

To obtain data to evaluate subsurface conditions within the proposed development/construction areas, Rubino proposes to drill soil borings and perform pavement cores as specified below.

PROPOSED WALL OR STRUCTURE	# BORINGS (BORING TITLE)	DEPTH** (FT BEG*)	LOCATION / PROPOSED WALL TYPE
RW1	4 (RWB-1A thru RWB-1D)	60	STA: 84+60 to 87+60 LT Average height 10 ¾ ft, 300 ft long Proposed drilled soldier pile retaining wall with cast in place concrete facing wall type
RW2	4 (RWB-2A thru RWB-2D)	60	STA: 84+50 to 88+50 RT STA: 81+00 to 84+30 RT Average height 13 ft, 730 ft long Proposed drilled soldier pile retaining wall with cast in place concrete facing wall type
	4 (RWB-2E thru RWB-2I)	60	
RW3	1	60	STA: 84+30 to 84+50 RT

PROPOSED WALL OR STRUCTURE	# BORINGS (BORING TITLE)	DEPTH** (FT BEG*)	LOCATION / PROPOSED WALL TYPE
	(RWB-7A & RWB-7B)		Average height 13 ft, 20 ft long Proposed cast in place concrete drilled soldier pile retaining wall with cast in place concrete facing wall type
RW4	2 (RWB-4A & RWB-4B)	25	STA: 107+65 to 109+25 LT Average Height 7 ft, 160 ft long Proposed CIP Concrete Retaining Wall
RW5	2 (RWB-5A & RWB-5B)	25	STA: 110+00 to 111+05 LT Average height 7 ft, 105 ft long Proposed CIP Concrete Wall
RW6	3 (RWB-6A thru RWB-6C)	60	STA: 109+00 to 112+20 RT Average Height 10 ft, 230 ft long Proposed drilled soldier pile wall with cast in place concrete facing wall type
RW7	1 (RWB-7A)	60	STA: 112+20 to 113+90 LT Average height 18 ft, 170 ft long Proposed CIP concrete retaining wall supported on driven piles wall type
RW8	2 (RWB-8A & RWB-8B)	60	STA: 112+80 to 115+15 RT Average height 17 ½ ft, 235 ft long Proposed CIP concrete retaining wall supported on driven piles wall type
RW9	4 (RWB-9A thru RWB-9D)	25 - 50***	STA: 115+50 to 118+50 LT Maximum height 8 ft, 300 ft long Cast in place concrete retaining wall supported on driven piles wall type
RW10	5 (RWB-10A thru RWB-10E)	25 - 50***	STA: 115+25 to 118+75 RT Maximum height 6 ½ ft, 350 ft long Cast in place concrete retaining wall supported on driven piles wall type
Traffic Signal	4	25	Sheridan/Wadsworth Intersections
Detention Basin	4	25	Proposed Detention Basins
TOTAL	41 borings	1,950 feet	

*BEG = below existing grade

**Borings should be extended to proposed depth or 15 ft of stiff or dense material for soldier pile walls

***Deeper borings proposed due to presence of poor soils in RW3, the borings may need to be deepened

Boring Locations

The actual boring locations have not yet been determined at this time. Rubino recommends that the borings be located and surveyed for elevation by others prior to drilling. If the borings cannot be surveyed, Rubino will locate the borings in the field by measuring distances from known, fixed site features.

SPT - Soil Sampling - IDOT

Soil sampling will include split-barrel samples (ASTM D 1586) or thin-walled tube samples on cohesive soils (ASTM D 1587) at 2 ½ - foot intervals to a depth of up to 30 feet and 5 - foot intervals thereafter.

If unsuitable bearing soils are encountered within the borings as proposed herein, the borings will be extended an additional 5 feet to attempt to end the borings in suitable soils. If unsuitable soils persist at the end of an additional 5 feet the client will be contacted prior to demobilizing.

Unsuitable soils will be defined by field personnel using the following criteria:

- Cohesive soils with an N value less than or equal to 6.
- Granular soils with an N-value less than 10.
- Black cohesive or silty soil with visible signs of organic matter and / or organic odor and low blow counts as described above.

Completion of Borings

Upon completion of drilling, the borings will be backfilled with soil cuttings and capped with similar existing material and asphalt cold patch or quick setting grout. Some damage to ground surface may result from the drilling operations near the work areas and along ingress/egress pathways. Rubino will attempt to minimize such damage, but no restoration other than backfilling the soil test borings is included.

It should be noted that over time, some settlement may occur in the bore hole. If Rubino is requested to return to the site for the purpose of filling any bore holes that may have settled, additional time and material charges may apply.

Laboratory Testing

The soil samples obtained during the field exploration program will be transported to the laboratory for classification and a limited number of laboratory tests. The nature and extent of the laboratory testing program is at the discretion of Rubino Engineering, Inc. and will depend upon the subsurface conditions encountered during drilling.

Laboratory testing will be performed in accordance with ASTM procedures and may include examination of selected samples to evaluate the soils' index properties and relative strength characteristics. Based on the proposed quantity of soil borings, anticipated depths, and project type, a list of the anticipated laboratory tests are summarized below.

LABORATORY TEST	ESTIMATED QUANTITY	SAMPLE TYPE
Atterberg Limits	13	Split spoon, bulk, or Shelby Tube
Triaxial Testing (3 point envelope)	4	Shelby Tube
Hydrometer	8	Split spoon, bulk, or Shelby Tube
Natural Moisture Content	582	Shelby Tube, Cohesive Samples
Organic Content	20	Split spoon, bulk, or Shelby Tube

STRUCTURE GEOTECHNICAL REPORT (SGR)

Upon completion of field and laboratory work, Rubino will prepare a roadway Structure Geotechnical Report (SGR) using the collected data. The report will include the following per the IDOT Geotechnical Manual:

- Cover Sheet and Table of Contents
- Project Description and Scope
- Field Exploration
- Geotechnical Evaluations and Recommendations
 - Settlement
 - Global Stability
 - Seismic Considerations
- Foundation Recommendations
- Construction Considerations
- Appendices (Supporting Documentation): location map, boring plan and soil profile, boring logs, laboratory test results, photographs

An electronic copy of the report will be provided. The report will be addressed to Ciorba Group.

PROJECT SCHEDULE

Rubino proposes to initiate work on this project within 5 working days after receiving written authorization to proceed and we will follow the schedule below in order to complete the project:

Task	Number of Working Days
Utility clearance, Layout, and rig mobilization	10 – 15
Field work Drilling	25
Laboratory Testing	15 - 45
Preparation of the SGR	25

Project schedules can be affected by weather conditions and changes in scope. If the report needs to be delivered by a specific day, please notify us as soon as possible. Preliminary verbal recommendations can be made to appropriate parties upon completion of the field investigation and laboratory testing. Rubino will need to receive a signed copy of this proposal intact prior to mobilizing the drill rig.

SPECIAL INSTRUCTIONS

Rubino will coordinate contacting the Utility "One-Call" for public utility clearance prior to the start of drilling activities. It is Rubino's experience that this service does not mark the locations of privately owned utilities. This proposal is based on private utility lines and other subsurface appurtenances being located in the field by others prior to our mobilization.

FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a cost plus fixed fee basis. Based on the scope of services outlined above, the estimated fee will be **\$232,724.**

Please see the attached BLR 05514.

Scope Limitations

Project services do not include a site evaluation to determine the presence or absence of wetlands, hazardous substances, or toxic materials.

Rock coring is not included in the scope of this exploration, therefore, the character and continuity of refusal materials, if encountered, can be determined only with a more comprehensive scope of services. Therefore, the borings will be advanced to the depths referenced above, or to refusal, whichever is shallower.

Boring, sampling and testing requirements are a function of the subsurface conditions encountered. The proposed lump-sum fee is based on the existence of adequate bearing materials being encountered within the proposed boring depths. Should conditions be encountered which require a deepening of borings or additional investigation, Rubino will notify you to discuss modifying the outlined scope of services. Additional work beyond the lump-sum fee will not be performed without your prior authorization.

AUTHORIZATION

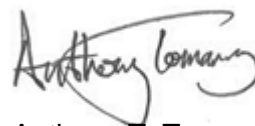
If this proposal is acceptable to you, Rubino will perform the work in accordance with the attached General Conditions that are incorporated into and made a part of this proposal. Please sign below as notice to proceed and return one copy of this proposal intact to our office. Rubino will proceed with the work upon receipt of authorization.

Rubino appreciates the opportunity to offer our services for this project and we look forward to working with your company. Please contact Rubino with questions pertaining to this proposal or requests for additional services.

Respectfully submitted,
RUBINO ENGINEERING, INC.



Michelle A. Lipinski, PE
President



Anthony T. Tomaras
Project Manager



Local Public Agency LCDOT	County Lake	Section Number
Prime Consultant (Firm) Name Ciorba	Prepared By Anthony Tomaras	Date 5/2/2023
Consultant / Subconsultant Name Rubino Engineering, Inc.	Job Number N/A	

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

Remarks

Wadsworth Rd Retaining Walls REV1

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	169.03%
START DATE	6/5/2023		COMPLEXITY FACTOR	0
RAISE DATE	3/1/2024		% OF RAISE	2.00%
END DATE	12/4/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/5/2023	3/1/2024	9	50.00%
1	3/2/2024	12/1/2024	9	51.00%

LCDOT

Lake

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Rubino Engineering, Inc.

	N/A
--	-----

Local Public Agency

LCDOT

County

Lake

Section Number

Consultant / Subconsultant Name

Rubino Engineering, Inc.

Job Number

N/A

DIRECT COSTS WORKSHEET

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

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	41	\$65.00	\$2,665.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)	50	\$30.00	\$1,500.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)	25	\$2,850.00	\$71,250.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost	1	\$18,570.00	\$18,570.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Rig Mobilization	Rig Mobilization	25	\$549.15	\$13,728.75
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$107,713.75

LCDOT

Lake

Rubino Engineering, Inc.

N/A

COMPLEXITY FACTOR 0

LCDOT

Lake

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Rubino Engineering, Inc.

N/A

SHEET 1 **OF** 1

Scope of Work



PROJECT SUMMARY

Project Name Wadsworth Road Land Acquisition (Phase II) ASE Proposal No. 220027

Owner Lake County Division of Transportation Date March 30, 2023

Agent Ciorba Revision Date **May 3, 2023**

Project Description – ASE will provide 26 additional land acquisition surveys for the proposed improvements along Wadsworth Road in addition to the 32 with the previous proposal. ASE will prepare one (1) Plat of Highways as a deliverable which will include the original 32 land acquisition parcels (Phase I) as well as these 26 additional land acquisition parcels. ASE will also provide Appraisals, Negotiations, and Land Acquisition Close Out services for the total of 58 parcels.

ASE will also provide Subsurface Utility Engineering (SUE) Quality Level A (QL A) exposures at 6 locations on the project. To ensure that the QL A exposures are over the underground utility, ASE will perform SUE QL B (Paint Mark Designation) in support of QL A.

Project Location – The project is located along Wadsworth Road as shown in this ASE exhibit showing the approximate project length in blue below:



GENERAL CONDITIONS AND SCOPE ASSUMPTIONS

1. All professional services will be performed to appropriate Minimum Standards of practice and Section 1270.56, Minimum Standards of Practice for surveys in Illinois.
2. Subsurface Utility Engineering (SUE) standards referred to within this scope of work are in accordance with the CI/ASCE 38-02 Standard Guideline for the Collection & Depiction of Existing Subsurface Utility Data.

3. SUE QL A exposures will be billed at the following rates.
 - a. Location holes 0-3.00 feet in depth will be billed at \$1,580.00 per hole.
 - b. Location holes 3.01-6.00 feet in depth will be billed at \$2,189.00 per hole. (Assume 3)
 - c. Location holes 6.01-12.00 feet in depth will be billed at \$3,267.00 per hole. (Assume 3)
 - d. Location holes 12.01-18.00 feet in depth will be billed at \$4,468.00 per hole.
 - e. Location holes 18.01 feet and over will be billed at an hourly rate.
4. This proposal assumes 120 linear feet of SUE QL B. The cost of designating, surveying, and mapping SUE QL B is \$2.93 per linear foot.
5. American Surveying & Engineering shall not be responsible for any erroneous or missing information provided by underground utility providers.
6. All previous and relevant survey information will be provided to ASE at no cost prior to commencement of survey.
7. Owner/Agent will provide a Letter of Introduction to facilitate field operations.
8. Hazardous Waste sites designated as requiring protective equipment "Class D" or greater will not be entered unless provided for otherwise in the Scope of Work Tasks.
9. American Surveying & Engineering is not signatory to any organized labor agreements. We will not provide services in any capacity where labor disputes may exist. We will not be responsible for costs or delays associated with labor disputes relevant to work on this project.
10. Field work performed on this project is subject to the vagaries of weather. In the event weather impairs our ability to perform any specified professional services, we will contact the Owner/Agent to determine changes in schedule or cost. No additional work will be performed until the owner/agent has reviewed and approved a revised cost or schedule.
11. ASE will commence work at a mutually agreeable date after NTP.
12. A topographic survey as required for Plat-of-Highways will be provided by Agent.
13. This SOW shall become part of the contract between Owner/Agent and ASE.

PROPOSAL TASKS

1. Administration
 - 1.1. Meetings with Owner or Agent, including in-house meetings. Progress Reports, scheduling, invoicing and other project administrative tasks.
 - 1.2. Technical direction of staff.
 - 1.3. Project Management, resource coordination.
2. Document Compilation
 - 2.1. Obtain relevant project documents from Owner/Agent. Order title for parcels.
 - 2.2. Compile, review and index information.
 - 2.3. Prepare compiled information for field and office tasks.
3. Horizontal & Vertical Control
 - 3.1. Search and reconnaissance for record control points. Recover and verify previous control points.
 - 3.2. Office calculations, adjustment, tabulations of coordinates, and working drawings.

4. Land Acquisition Surveys (Assume 26 parcels)
 - 4.1. Courthouse research.
 - 4.2. Recover or establish and survey section corners or Block Corners.
 - 4.3. Recover existing monumentation and survey parcel boundaries.
 - 4.4. Calculate parcel boundaries.
 - 4.5. Prepare legal descriptions and Plat of Highways.
5. Appraisals (Assume 58 appraisals on 58 affected PINs.)
 - 5.1. Coordinate Owner contact with Appraiser.
 - 5.2. Market Data Analysis of Subject property.
 - 5.3. Market Data Research.
 - 5.4. Meet with owner and conduct property inspection.
 - 5.5. Inspection and verification of comparable sale properties.
 - 5.6. Valuation Analysis.
 - 5.7. Preparation of Appraisal reports.
 - 5.8. Coordination with Review appraiser.
6. Negotiations (Assume 58 parcels)
 - 6.1. Assemble and review title, plat, appraisal, contract plans and conveyance documents.
 - 6.2. Prepare Introductory Letter in name of County.
 - 6.3. Schedule and conduct meeting with property owner to present Offer to Purchase.
 - 6.4. Negotiate with owner, communicate owner concerns to County, focused on settlement.
 - 6.5. Present counteroffers, limited to three.
 - 6.6. After 3 contacts with the owner, if not accepted ASE will send 60-day letter.
 - 6.7. Secure proper conveyance documents.
 - 6.8. Maintain Negotiator's Log.
 - 6.9. Secure IDOT Certification.
7. Land Acquisition Closing Services [By Others] (Assume 58 parcels)
 - 7.1. Coordinate with Title Service to perform closing.
 - 7.2. Coordinate with Title Service to record conveyance documents.
8. SUE Quality Level A Exposures (Test Holes) [Assume 6 Exposures]
 - 8.1. Obtain Dig tickets as required for QLA TestHoles.
 - 8.2. Perform SUE QL B to confirm location and presence of the underground utility to be exposed. (Assume that 10 feet on either side of the 6 exposures will be required equaling 120 feet of QL B.)
 - 8.3. Perform Air vac excavation to expose specified utilities for accurate depiction of the utility location and subsequent backfill with excavation spoils. (Assume 3 exposures at the 3-to-6-foot depth and 3 exposures at the 6-to-12-foot depth.)
 - 8.4. Obtain X, Y, Z coordinates of top of utility locations and ground elevation.
Provide a Test Hole Data Sheet for each QLA Test Hole
9. QA/QC
 - 9.1. Review contract documents and survey requirements to verify ASE project QA/QC requirements.
Create QA/QC plan.
 - 9.2. Periodic project review to ensure compliance with policy and contract documents.
 - 9.3. Final review and report of QA/QC compliance.

ASE WILL DELIVER TO CLIENT:

- A. Copies of field notes with reductions made.
- B. Electronic versions of drawings on client specified CADD platform.
- C. Plats and legal descriptions for land acquisition parcels.
- D. Appraisal Report
- E. Negotiator's log and report
- F. Receipt of the recording conveyance documents.
- G. For SUE QL A - a geo-referenced .dwg CAD file in IL State Plane Coordinates containing the existing underground utilities and depth information where excavations were performed.
- H. PDF of any field drawings illustrating location of vacuum excavations including any field notes.

DIRECT & UNIT COST ITEMS

Direct & Unit Costs				
Courthouse Records Research	Each	\$10.00	26	\$260.00
Title Commitments	Each	\$975.00	26	\$25,350.00
Appraisals (Unit)	Each	\$2,744.00	58	\$159,152.00
Negotiations (Unit)	Each	\$4,477.00	58	\$259,666.00
Closings	Each	\$740.00	58	\$42,920.00
SUE Level B - Billed per each linear foot	per linear foot	\$2.93	120	\$352.00
Level A exposures (0-3.00 feet in depth)	each	\$1,580.00		\$0.00
Level A exposures (3.01-6.00 feet in depth)	each	\$2,189.00	3	\$6,567.00
Level A exposures (6.01-12.00 feet in depth)	each	\$3,267.00	3	\$9,801.00
Level A exposures (12.01-18.00 feet in depth)	each	\$4,468.00		\$0.00
Coring (less than 6" Non-reinforced concrete) or Asphalt	each	\$347.00		\$0.00
Coring (6-11.99" Non-reinforced concrete) or Asphalt	each	\$462.00		\$0.00
Coring (12-20" Non-reinforced concrete) or Asphalt	each	\$520.00		\$0.00
Winter Conditions (30-45 F)	each	\$408.00		\$0.00
Flowable Fill	actual cost	300		\$0.00
			TOTAL	\$504,068.00

ITEMS SUPPLIED BY OTHERS

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



PROJECT: Wadsworth Road Land Acquisition Phase II

LOCATION: Wadsworth Road, Lake County

CLIENT: Ciorba

PROPOSAL No.: 220027 Phase II

DATE: 5/3/2023

TASK 1.0 Administration		Man Hours																					
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL	
1.1	Meetings, reports, scheduling, etc.		6		12															8		26	
1.2	Technical Direction of Staff		6		12																	18	
1.3	Project management & coord.		6		12																	18	
1.4																						0	
1.5																						0	
1.6																						0	
1.7																						0	
1.8																						0	
1.9																						0	
	TOTAL HOURS	0	18	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	62

TASK 2.0 Data Compilation		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
2.1	Courthouse & Data Research		2		8																	10
2.2	Compile & Review data		2		8																	10
2.3	Catalog and transfer to field		2		8																	10
2.4																						0
2.5																						0
2.6																						0
2.7																						0
2.8																						0
2.9																						0
																						0
	TOTAL HOURS	0	6	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30

TASK 3.0 Horizontal Control		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
3.1	Recon. & locate existing mon's.									40	40											80
3.2	Office Calcs		3		18																	21
3.3																						0
3.4																						0
3.5																						0
3.6																						0
3.7																						0
3.8																						0
3.9																						0
																						0
	TOTAL HOURS	0	3	0	18	0	0	0	0	40	40	0	0	0	0	0	0	0	0	0	0	101

TASK 4.0 Land Acquisition Surveys		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
4.1	Courthouse Research		3		42																	45
4.2	Recover, establish section corners		3		8					180	180											371
4.3	Recover and survey parcel boundaries		3		8					180	180											371
4.4	Calculate parcel boundaries		3		85																	88
4.5	Prepare legals, plats		5		42			288														335
4.6																						0
4.7																						0
4.8																						0
4.9																						0
	TOTAL HOURS	0	17	0	185	0	0	288	0	360	360	0	0	0	0	0	0	0	0	0	0	1210



PROJECT: Wadsworth Road Land Acquisition Phase II
LOCATION: Wadsworth Road, Lake County
CLIENT: Ciorba

PROPOSAL No. 220027 Phase II
DATE: 5/3/2023

TASK 5.0 Appraisals		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
5.1	Coordinate with appraiser																					0
5.2	Market data analysis																					0
5.3	Market data research																					0
5.4	Meet with owner - inspection																					0
5.5	Comparable sales																					0
5.6	Valuation analysis																					0
5.7	Appraisal report																					0
5.8	Coordinate with review appraiser																					0
5.9																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TASK 6.0 Negotiations		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
6.1	Assemble docs																					0
6.2	Prepare letter in name of the County																					0
6.3	Schedule & conduct meeting with owner																					0
6.4	Negotiate with owner																					0
6.5	Prepare counteroffers - limit 3																					0
6.6	If no progress after 3 - send 60 day letter																					0
6.7	Secure proper conveyance documents																					0
6.8	Maintain negotiator's log																					0
6.9																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TASK 7.0 Closings		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
7.1	Perform closing.																					0
7.2	Record conveyance documents.																					0
7.3																						0
7.4																						0
7.5																						0
7.6																						0
7.7																						0
7.8																						0
7.9																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TASK 8.0 SUE QL A		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
8.1	Obtain Dig Tickets		1		2		8															11
8.2	Perform SUE QL B				1		2															3
8.3	Perform SUE QL A		1		2		6															9
8.4	Obtain X,Y,Z Coordinates on top of Utilities		1		2		4															7
8.5																						0
8.6																						0
8.7																						0
8.8																						0
8.9																						0
																						0
	TOTAL HOURS	0	3	0	7	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30



PROJECT: Wadsworth Road Land Acquisition Phase II
LOCATION: Wadsworth Road, Lake County PROPOSAL No.: 220027 Phase II
CLIENT: Ciorba DATE: 5/3/2023

TASK 9.0 QA/QC		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
9.1	Review contract. Prepare Plan.		6		10																	16
9.2	Periodic review and report.		6		10																	16
9.3	Final review and report.		6		10																	16
9.4																						0
9.5																						0
9.6																						0
9.7																						0
9.8																						0
9.9																						0
	TOTAL HOURS	0	18	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48

TASK		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
10.1																						0
10.2																						0
10.3																						0
10.4																						0
10.5																						0
10.6																						0
10.7																						0
10.8																						0
10.9																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TASK		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
11.1																						0
11.2																						0
11.3																						0
11.4																						0
11.5																						0
11.6																						0
11.7																						0
11.8																						0
11.9																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TASK		Man Hours																				
ITEM	Description	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW 2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
12.1																						0
12.2																						0
12.3																						0
12.4																						0
12.5																						0
12.6																						0
12.7																						0
12.8																						0
12.9																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Local Public Agency Lake County Division of Transportation	County Lake	Section Number
Prime Consultant (Firm) Name Ciorba	Prepared By Tom Balser	Date 3/27/2023 Rev 4/26/23
Consultant / Subconsultant Name American Surveying & Engineering, P.C. <small>Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.</small>	Job Number 	

Remarks

This proposal was originally prepared to provide Land Acquisition Surveys. It has now been updated to include Land Acq Services including appraisals, negotiations, and closing costs.

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS	OVERHEAD RATE	160.06%
START DATE	6/5/2023		COMPLEXITY FACTOR	
RAISE DATE	1/24/2024		% OF RAISE	2.00%
END DATE	12/4/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/5/2023	1/24/2024	8	44.44%
1	1/25/2024	11/24/2024	10	56.67%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	
Consultant / Subconsultant Name		Job Number
American Surveying & Engineering, P.C.		

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	78.00
ESCALATION FACTOR	1.11%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
PRINCIPAL IN CHARGE	\$86.00	\$78.00
PROJECT MANAGER	\$81.20	\$78.00
PROJECT SURVEYOR/ENGINEER 4	\$77.17	\$78.00
PROJECT SURVEYOR/ENGINEER 3	\$65.92	\$66.65
PROJECT SURVEYOR/ENGINEER 2	\$48.28	\$48.82
PROJECT SURVEYOR/ENGINEER 1	\$40.00	\$40.44
CADD TECHNICIANS	\$43.83	\$44.32
ENGINEERING/SURVEY TECHNICIAN 4	\$64.66	\$65.38
ENGINEERING/SURVEY TECHNICIAN 3	\$42.17	\$42.64
ENGINEERING/SURVEY TECHNICIAN 2	\$31.47	\$31.82
ENGINEERING/SURVEY TECHNICIAN 1	\$19.96	\$20.18
RIGHT-OF-WAY SPECIALIST 4	\$63.17	\$63.87
RIGHT-OF-WAY SPECIALIST 3	\$43.83	\$44.32
RIGHT-OF-WAY SPECIALIST 2	\$33.82	\$34.20
RIGHT-OF-WAY SPECIALIST 1	\$24.60	\$24.87
SUBSURFACE UTILITY SPECIALIST 3	\$44.00	\$44.49
SUBSURFACE UTILITY SPECIALIST 2	\$29.50	\$29.83
SUBSURFACE UTILITY SPECIALIST 1	\$24.55	\$24.82
ADMINISTRATIVE/CLERICAL 3	\$30.00	\$30.33
ADMINISTRATIVE/CLERICAL 2	\$22.75	\$23.00
ADMINISTRATIVE/CLERICAL 1	\$16.60	\$16.78

Local Public Agency

Lake County Division of Transportation

County

Lake

Section Number**Consultant / Subconsultant Name**

American Surveying & Engineering, P.C.

Job Number**DIRECT COSTS WORKSHEET**

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

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			\$0.00
Vehicle Rental	Actual Cost (Up to \$55/day)			\$0.00
Tolls	Actual Cost			\$0.00
Parking	Actual Cost			\$0.00
Overtime	Premium portion (Submit supporting documentation)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
Project Specific Insurance	Actual Cost			\$0.00
Monuments (Permanent)	Actual Cost			\$0.00
Photo Processing	Actual Cost			\$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			\$0.00
CADD	Actual Cost (Max \$15/hour)			\$0.00
Web Site	Actual Cost (Submit supporting documentation)			\$0.00
Advertisements	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			\$0.00
Recording Fees	Actual Cost			\$0.00
Transcriptions (specific to project)	Actual Cost			\$0.00
Courthouse Fees	Actual Cost			\$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost			\$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			\$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Appraisals+Negotiations+Closings Total	Total	1	\$461,738.00	\$461,738.00
Title Commitments + Records Fee- Total - See Scope for Breakout	Total	1	\$25,610.00	\$25,610.00
SUE QL A + QL B	Total	1	\$16,720.00	\$16,720.00
				\$0.00
TOTAL DIRECT COSTS:				\$504,068.00

Lake County Division of Transportation

Lake

American Surveying & Engineering, P.C.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

COMPLEXITY FACTOR 0

178,567

COST EST

Local Public Agency

Lake County Division of Transportation

Consultant / Subconsultant Name

American Surveying & Engineering, P.C.

County

Lake

Section Number

Job Number

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

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1.0 Administration			2.0 Data Compilation			3.0 Horizontal Control			4.0 Land Acquisition Surveys			5.0 Appraisals		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
PRINCIPAL IN CHARGE	78.00	0.0			0			0			0			0			0		
PROJECT MANAGER	78.00	65.0	4.39%	3.42	18	29.03%	22.65	6	20.00%	15.60	3	2.97%	2.32	17	1.40%	1.10	0		
PROJECT SURVEYOR/ENGINEER 4	78.00	0.0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 3	66.65	300.0	20.26%	13.50	36	58.06%	38.70	24	80.00%	53.32	18	17.82%	11.88	185	15.29%	10.19	0		
PROJECT SURVEYOR/ENGINEER 2	48.82	0.0			0			0			0			0			0		
PROJECT SURVEYOR/ENGINEER 1	40.44	20.0	1.35%	0.55	0			0			0			0			0		
CADD TECHNICIANS	44.32	288.0	19.45%	8.62	0			0			0			288	23.80%	10.55	0		
ENGINEERING/SURVEY TECHNICIAN 4	65.38	0.0			0			0			0			0			0		
ENGINEERING/SURVEY TECHNICIAN 3	42.64	400.0	27.01%	11.52	0			0			40	39.60%	16.89	360	29.75%	12.69	0		
ENGINEERING/SURVEY TECHNICIAN 2	31.82	400.0	27.01%	8.59	0			0			40	39.60%	12.60	360	29.75%	9.47	0		
ENGINEERING/SURVEY TECHNICIAN 1	20.18	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 4	63.87	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 3	44.32	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 2	34.20	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIST 1	24.87	0.0			0			0			0			0			0		
SUBSURFACE UTILITY SPECIALIST 3	44.49	0.0			0			0			0			0			0		
SUBSURFACE UTILITY SPECIALIST 2	29.83	0.0			0			0			0			0			0		
SUBSURFACE UTILITY SPECIALIST 1	24.82	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERICAL 3	30.33	8.0	0.54%	0.16	8	12.90%	3.91	0			0			0			0		
ADMINISTRATIVE/CLERICAL 2	23.00	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERICAL 1	16.78	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		1481.0	100%	\$46.36	62.0	100.00%	\$65.26	30.0	100%	\$68.92	101.0	100%	\$43.68	1210.0	100%	\$43.99	0.0	0%	\$0.00

Lake County Division of Transportation

Lake

American Surveying & Engineering, P.C.

SHEET 2 **OF** 2

Phase II Scope of Services

Introduction

Wadsworth Road within the project limits is located along the north Right-of-Way of Waukegan National Airport. The anticipated roadway project will include geotechnical investigation, construction activities and improvements that may include traffic signals and roadway lighting. Based on the anticipated scope of the project identified in preliminary engineering that include extensive retaining walls, and its proximity to the airport, a Federal Aviation Administration (FAA) permit and extensive coordination with IDOT-Division of Aeronautics (IDA) will be necessary. The scope of FAA studies is dependent on:

- Data collection – Soil borings for retaining walls
- Proposed improvements – Piles, signals, and street lighting and improvements on west approach of Lewis Avenue intersection
- Location of improvements – Intersections, segments, and culverts

Kimley-Horn and Associates, Inc. (“Kimley-Horn” or “Consultant”) is pleased to submit this scope of services to Ciorba Group to conduct extended coordination, prepare FAA permit and coordinate with IDOT-IDA for this project. The scope includes preparation of FAA Form 7460-1 submittal for following anticipated work:

- Geotechnical investigation
- Proposed improvements
- Construction activities

The Consultant will send a letter to the airport to provide information about the project, its limits and anticipated tasks noted above.

Meetings and Coordination

The Consultant team will coordinate with the airport to address any questions regarding the project and permitting. This task will also include coordination with the Ciorba Group to obtain project details to assist preparation of the FAA permit. Two in-person meetings are included in our scope.

Project Management

The Consultant will perform project management and administration, including staff and resource scheduling, progress monitoring, and monthly invoice. As part of the permit development process, the Consultant will hold internal coordination meetings with all pertinent team members and coordinate with Ciorba Group.

Local Public Agency Lake County Division of Transportation	County Lake County	Section Number
Prime Consultant (Firm) Name Ciorba Group	Prepared By 	Date 4/16/2023
Consultant / Subconsultant Name Kimley-Horn	Job Number 	

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

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	18	MONTHS			
START DATE	6/19/2023			OVERHEAD RATE	194.54%
RAISE DATE	7/1/2023			COMPLEXITY FACTOR	
				% OF RAISE	2.00%
END DATE	12/18/2024				

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/19/2023	7/1/2023	0	0.00%
1	7/2/2023	7/1/2024	12	68.00%
2	7/2/2024	1/1/2025	6	34.68%

The total escalation = 2.68%

Lake County Division of Transportation

Lake County

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Kimley-Horn

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

ESCALATION FACTOR	2.68%
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Local Public Agency

Lake County Division of Transportation

County

Lake County

Section Number**Job Number****Consultant / Subconsultant Name**

Kimley-Horn

COST ESTIMATE WORKSHEET**EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET****OVERHEAD RATE** 194.54%**COMPLEXITY FACTOR** 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
FAA permit		14	751	1,461	248		2,460	32.22%
IDOT-IDA Coordination		10	655	1,275	216		2,146	28.10%
Meetings and Coordination		8	581	1,130	192		1,903	24.92%
Project Management		4	344	669	114		1,127	14.76%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$0.00						\$0.00	
TOTALS		36	2,331	4,535	770	-	7,636	100.00%

6,866

