Illinois Department of Transportation

DRAFT

Local Public Agency Engineering Services Agreement

Using Federal Funds? ☐ Yes ☒ No

Agreement For: PE

Agreement Type: Original

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Lake County Division of Transportation	Lake	22-00999-89-DR	

Project Number	Contact Name	Phone Number	Email
	Michael Burke	(847) 377-7462	MJBurke@lakecountyil.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Various	Various	Varies	

Location Termini: Varies

Add Location / Remove Location

Project Description: Perform Phase I and II engineering services for the replacement of the following culverts: Skokie Valley Bike Path Underpass; Culvert 1210, 1215, 1223 and 1241 along the Skokie Valley Bike Path; Culvert 364 along Gilmer Road; and Culvert 568 along Miller Road.

Engineering Funding: ☐ MFT/TBP ☐ State ☒ Other — CB

Anticipated Construction Funding: ☐ Federal ☐ MFT/TBP ☐ State ☒ Other — CB

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) 355-2952	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	A full time LPA employee authorized to administer inherently governmental PROJECT activities
Contractor	Company or Companies to which the construction contract was awarded

AGREEMENT EXHIBITS

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

☒ EXHIBIT A: Scope of Services

☒ EXHIBIT B: Project Schedule

☒ EXHIBIT C: 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 original or sex in the award and performance of any US DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this AGREEMENT. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

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

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

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

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

4. ~~In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.~~

5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.

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

7. The ENGINEER and LPA certify that their respective firm or agency:

   (a) has not employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
   (b) has not agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
   (c) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
   (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
   (e) has not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
   (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph and
   (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

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

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

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

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

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

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

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

(2) The grantee's or contractor's policy to maintain a drug free workplace;
(3) Any available drug counseling, rehabilitation and employee assistance program; and
(4) The penalties that may be imposed upon an employee for drug violations.

(c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.

(d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.

(e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

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

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

11. For Preliminary Engineering Contracts:

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

(b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
Ciorba Group, Inc.	36-2525351	$346,620.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Huff & Huff	36-3044842	$48,531.00
American Surveying and Eng.	36-3307274	$116,518.00
Rubino Engineering, Inc.	80-0450719	$58,570.00
Sanchez	20-2703329	$8,879.00
	Subconsultant Total	$232,498.00
	Prime Consultant Total	$346,620.00
	Total for all work	$579,118.00

AGREEMENT SIGNATURES

Executed by the LPA:

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

By (Signature & Date)

By (Signature & Date)

Local Public Agency: Lake | Local Public Agency Type: County | Clerk | Title

SEAL)

Executed by the ENGINEER:

Attest: | Prime Consultant (Firm) Name: Ciorba Group, Inc.

By (Signature & Date): 5/15/2023

Title: CFO

By (Signature & Date): 5/15/2023

Title: COO

APPROVED:

Director of Transportation/County Engineer | Date

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Ciorba Group, Inc.	Lake	22-00999-89-DR

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	22-00999-89-DR

EXHIBIT B
PROJECT SCHEDULE

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Lake County Division of Transport	Ciorba Group, Inc.	Lake	22-00999-89-DR

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?	☐	☐
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?	☐	☐
3	Was the scope of services for this project clearly defined?	☐	☐
4	Was public notice given for this project?	☐	☐
5	Do the written QBS policies and procedures cover conflicts of interest?	☐	☐
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	☐	☐
7	Do the written QBS policies and procedures discuss the methods of evaluation?	☐	☐

	Project Criteria	Weighting

8	Do the written QBS policies and procedures discuss the method of selection?	☐	☐

Selection committee (titles) for this project

	Top three consultants ranked for this project in order
1	
2	
3	

9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	☐	☐
10	Were negotiations for this project performed in accordance with federal requirements.	☐	☐
11	Were acceptable costs for this project verified?	☐	☐
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?	☐	☐
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)?	☐	☐
14	QBS according to State requirements used?	☐	☐
15	Existing relationship used in lieu of QBS process?	☐	☒
16	LPA is a home rule community (Exempt from QBS).	☐	☐

EXHIBIT A

SCOPE OF WORK

CONSULTANT:	**Ciorba Group, Inc.**
PROJECT MANAGER:	**Diana Decker, PE**
PROJECT/LEAD ROADWAY ENGINEER:	**Tim Heuer, PE**
LEAD STRUCTURAL ENGINEER:	**Brett Sauter, PE, SE**
LEAD DRAINAGE ENGINEER:	**Adam Hacker, PE**
ROUTE:	**Various**
SECTION:	**22-00999-89-DR**
COUNTY:	**Lake**
LOCAL AGENCY CONTACT:	**Mike Burke, Project Engineer** **Lake County Division of Transportation**

Project Understanding

Ciorba Group, Inc. will be leading a team responsible for the Phase I and II engineering services for the Culvert Replacements 2024 project. It includes the following culverts:

Skokie Valley Bike Path

- Bike Path Underpass (Lake Forest)
  - Existing Conditions
    - Crossing under Union Pacific Railway
    - 13’ x 12’ Box culvert with headwalls used for underpass
    - Drainage issue with standing and flowing water on path through underpass
    - Underpass located in wetland area; wetland impacts are expected.
  - Anticipated Proposed Improvement
    - Propose raising bottom of bike path tunnel 6” with either PCC or HMA overlay. Tying into existing will require path replacement on either side of the tunnel.
    - Install 6” trench drain along north side of tunnel out letting to a headwall on east side.
    - Regrade east and west sides to get water to drain to existing flared end sections. Note that there are underdrain headwalls at all four corners to drain the wing walls that will need to be left exposed.
    - Coordinate with ComEd for emergency vehicle access between bike path tunnel and Deerpath Rd either with existing UPRR crossing access south of tunnel or new emergency access off Deerpath Rd.
    - Alternatives
      - Concrete swale on the northeast side to drain to the existing culvert
      - Rain gardens to allow the water in the area to dissipate naturally

EXHIBIT A

SCOPE OF WORK

- Culvert 1210 (North of Lake Cook Road in Highland Park)
    - Existing Conditions
        - Double 42" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
        - Headwall to No End Section
        - Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
        - Consider raising top of headwall to allow for support of the edge of the bike path
        - Fence will need to be removed and replaced
        - Culvert located in wetland area; wetland impacts are expected.
    - Anticipated Proposed Improvement
        - Replace in kind per ComEd requirements.
        - Double 42” RCP
        - Cast in place concrete headwall on west side
        - Install precast FES on east side
        - There is a fence on the west side that will need to be removed/ replaced. Consider installing ornamental fence.
        - Consider raising the top of the headwall on the west side to stabilize the slope adjacent to the bike path.
        - Install 4.5” HMA patch (3” binder, 1.5” surface)
- Culvert 1215 (North of Clavey Road in Highland Park)
    - Existing Conditions
        - 48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
        - Headwall to No End Section
        - Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
        - Down Guys for a wood ComEd Pole (#4866) near the headwall - May need to modify the down guys or brace the pole during construction
        - Culvert located in wetland area; wetland impacts are expected.
    - Anticipated Proposed Improvement
        - Replace in kind per ComEd requirements.
        - 48” RCP
        - Precast concrete headwall on west side
        - Install precast FES on east side
        - ComEd wood pole down guys above existing culvert. Coordinate with ComEd to relocate down guy or to stabilize pole during construction.
        - Install 4.5” HMA patch (3” binder, 1.5” surface)

EXHIBIT A

SCOPE OF WORK

- Culvert 1223 (South of West Park Avenue in Highland Park)
    - Existing Conditions
        - 48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
        - Headwall to No End Section
        - Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
        - There are sink holes east of the path (in vegetated area)
    - Anticipated Proposed Improvement
        - Replace in kind per ComEd requirements.
        - 48" RCP
        - Precast concrete headwall on west side
        - Install precast FES on east side
        - Install 4.5" HMA patch (3" binder, 1.5" surface)
- Culvert 1241 (North of Westleigh Road in Lake Forest)
    - Existing Conditions
        - 36" Concrete Pipe - Installed 1994
        - Headwall to No End Section
        - Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
        - There are sink holes east of the path (in vegetated area)
        - Culvert located in wetland area; wetland impacts are expected.
    - Anticipated Proposed Improvement
        - Replace in kind per ComEd requirements.
        - 36" RCP
        - Headwall on west side
        - Install FES on east side
        - Install 4.5" HMA patch (3" binder, 1.5" surface)

Gilmer Road

- Culvert 364 (North of Chevy Chase Road in Hawthorne Woods)
    - Existing Conditions
        - 30" Concrete Pipe - Installed 1993
        - Flared End Section to No End Section
        - Unable to rate due to both end sections being under water (2022)
        - Consider Upsizing and Raising Culvert
        - Verify Culvert is Within R.O.W.
        - Culvert is in a floodplain and floodway and has wetland areas on both sides. Wetland and floodplain impacts are expected for this culvert.

- Anticipated Proposed Improvement
  - Replace culvert. Recommend upsizing and raising inverts to flowline. Easements may be required.
  - Install 12" HMA patch (10" N70 binder, 2" N70 surface)
  - Use excess spoils to create smother slopes from the edge of the road – If allowed due to permitting

Miller Road

- Culvert 568 (East of Wedgewood Lane in Lake Barrington)
  - Existing Conditions
    - 15" Corrugated Metal Pipe
    - Catch Basin with Type 8 Frame to Unknown End
    - Rated 4 (Severe) Bottom is heavily rusted with visible holes (2022)
    - Adjacent tree will need to be removed to replace culvert
    - Consider culvert lining if possible
  - Anticipated Proposed Improvement
    - Option 1- Remove and Replace
      - Remove/replace culvert with RCP and flared end section on south end and replace/ adjust catch basin on north end to bring to grade.
      - Large tree will need to be removed next to south end of culvert to replace
      - Guardrail or modifications to the embankment may needed due to steep slopes
      - Install 8" HMA patch (6.5" N70 binder, 1.5" N70 surface)
    - Option 2- Cured-in-place pipe liner
      - Look into the possibility of lining existing culvert in lieu of replacement
      - Catch basin could still be adjusted to grade

Detours will be required for each of the locations. Proposed detour route will be:

- Culvert 364: Hawley St- IL 60- Midlothian Rd
- Culvert 568: Kelsey Rd- IL 59
- Culvert 1210: Sidewalks along Lake Cook Rd- Skokie Valley Rd- Clavey Rd
- Culvert 1215: Sidewalks along Clavey Rd- Ridge Rd- Old Deerfield Rd (Use map from Culvert 1212 replacement)
- Culvert 1223: Sidewalks along Old Deerfield Rd- Highland Park Bike Path- Fredrickson Pl- Beverly Pl- Park Ave West (Use map from Culvert 1221 replacement)
- Culvert 1241: Sidewalks along Westleigh Rd- IL 43- Deerpath Rd

EXHIBIT A

SCOPE OF WORK

- UPRR Underpass: Laurel Ave- Sidewalk along Green Bay Rd- North Shore Bike Path

This project will use County Bridge funding for engineering and construction, it will be designed in accordance with IDOT's BLR Manual and LCDOT requirements. Two contract packages will be prepared. The first contract will include the culverts and underpass along the Skokie Valley Bike Path and the second contract will include the culverts on Gilmer Road and Miller Road. This scope of services assumes that Culvert 1340 under Miller Road will be replaced by LCDOT Maintenance and is therefore not included in Ciorba Group's survey, design, or permitting for Culvert 568.

Scope of Services

1. Coordination, Data Collection & Meetings - **Ciorba**
    a. Attend 3 meetings with LCDOT to discuss project progress and review comments via web-conference.
    b. Attend 3 stakeholder meetings.
    c. Attend IDOT Detour Committee Meeting (2 meetings)
    d. Perform a site visit to review existing conditions.
    e. Coordination with LCDOT.
    f. Utility Coordination
        i. Request utility atlas information.
        ii. Coordinate project with private utility companies to identify potential conflicts.
    g. Monthly Project Team meetings to gauge progress, identify issues, and verify interdisciplinary coordination.
    h. Coordination with subconsultants and project team.

2. Topographic Survey – **Ciorba**
    a. Perform topographical survey 200' at each culvert/underpass location.
    b. Hydraulic survey for Culvert 364 to 1000' upstream and 1000' downstream of Gilmer Road crossing. Assume twenty cross sections and three additional culvert crossings within Indian Creek reach.
    c. Survey will be completed in accordance with LCDOT Design Survey Procedures requirements.

3. Water Resources - **Ciorba**
    a. Skokie Valley Bike Path under UPRR - Alternatives Analysis and Technical Memorandum.
        i. Prepare a technical memorandum evaluating the feasibility of three alternatives and make a recommendation to LCDOT:
            1. Regrading ditches to improve underpass drainage to existing culverts.

2. Regrading ditches and adding a concrete swale on the northeast side.
3. Adding rain gardens in lieu of ditch regrading.

b. Hydraulic Analysis
   i. Culvert 364 – Gilmer Road over Indian Creek
      1. Obtain regulatory hydraulic model of Indian Creek.
      2. Incorporate hydraulic survey from 1000' upstream to 1000' downstream of the crossing into a corrected effective HEC-RAS model. Prepare a proposed conditions model for the upsized and regraded culvert.
      3. Compensatory storage analysis and design for fill in the floodway associated with channel regrading and embankment repair.
      4. Prepare a hydraulic technical memorandum for LCDOT approval.
   ii. Culvert 568 at Miller Road
      1. Perform hydrologic and hydraulic analysis of the crossing sewer based on Bulletin 75 rainfall data. Evaluate reuse versus upsizing the pipe.
      2. Prepare a technical memorandum for LCDOT review evaluating crossing sewer replacement vs CIPP lining.

c. Erosion Control and Landscaping Design for all sites, including assumed rain garden design for the UPRR underpass site. Sheet assumptions noted in Engineering Studies/Plans section.

d. Permitting
   i. Prepare and submit the following applications. Two submittals are assumed per application, one for each construction contract.
      1. USACE Section 404
      2. Lake County Watershed Development – Applications to be prepared for both contracts due to wetland impacts. Floodway construction at Culvert 364 is also regulated. It is assumed that IDNR will delegate approval for floodway construction to Lake County SMC. Ciorba will request a letter of delegation from IDNR and include it in the SMC application.
      3. IEPA NPDES ILR10 including SWPPP

4. Engineering Studies/Plans - **Ciorba**
   a. Prepare and submit the Environmental Survey Request.
   b. Barrier warrant analysis along Miller Road.
   c. Prepare Roadway Plans – Preliminary (60%), pre-final (90%) and final (100%) submittals to LCDOT.
      i. Title Sheet (1 sheet per contract)

ii. General Notes/Index/Highway Standards (1 sheet per contract)
iii. Summary of Quantities (2 sheets per contract)
iv. Schedule of Quantities
    1. Earthwork Schedule (1 sheet per contract)
    2. Drainage Schedules (1 sheet per contract)
v. Existing and Proposed Typical Sections (1 sheet per contract)
vi. Alignment, Ties, and Benchmarks
    1. Alignment (1 sheet per location)
    2. Ties & Benchmarks (1 sheet per location)
vii. Existing Conditions and Proposed Plan (1 sheet per location, double plan, 1" = 50') includes drainage improvements
viii. i. Maintenance of Traffic
    1. General Notes & Description (1 sheet per contract)
    2. Detour Plan (1 sheet per location)
ix. Erosion and Sediment Control/Landscaping (1 sheet per location, 1" = 50')
    1. Rain Garden detail (1 sheet)
x. Special Details (assume 1 sheet per contract)
xi. Grading Plan (1"=20')
    1. Skokie Valley Bike Path Underpass
xii. Cross Sections (50 spacing on cross sections)
    1. Gilmer Road (4 cross sections)
    2. Miller Road (4 cross sections)

5. Structural Studies/Plans - **Ciorba**
    a. Skokie Valley Bike Path under UPRR
        i. Culvert inspection
            1. Complete culvert inspection.
            2. Preparation of a culvert tech memo summarizing condition of culvert and recommended repairs.
        ii. Structural Plans
            1. Prepare repair plans based on culvert tech memo. Assume repair plans will include:
                a. Structural repair of concrete
                b. Overlay on box culvert floor
                c. Drainage within proposed overlay
                d. Concrete staining
        iii. Coordinate with Rubino on soil boring locations and recommendations.
    b. Culvert 1215, 1223, and 1241
        i. IDOT Standards 542201 and 542206 (Reinforced Concrete End Sections for Pipe Culverts) will be utilized for the end sections for these culverts. No structural hours will be needed.

c. Culvert 1210
    i. Structural Plans
        1. Prepare headwall details (2 sheets)

6. 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 estimate of time and cost for the preliminary, pre-final and final plan submittals.

7. QC/QA
    a. Perform Quality Control/Quality Assurance during the project per Ciorba Group's Quality Assurance/Quality Control Plan.

8. Project Management and Administration
    a. Provide project oversight.
    b. Prepare invoices and progress reports.
    c. Project control of scope, schedule, and budget.

9. Subsurface Utility Engineering – **Surveying and Mapping, LLC (SAM)** See attached detailed scope of work.
    a. Perform SUE Level B utility investigations at all culvert/underpass locations.

10. Geotechnical – **Rubino Engineering, Inc.** See attached detailed scope of work.
    a. Soil borings will be taken in at each culvert/underpass locations.

11. Environmental Services – **Huff and Huff** See attached detailed scope of work.
    a. Wetland Delineation at all culvert/underpass locations.
    b. CCDD Screening at all culvert/underpass locations.
    c. Bat assessment for all culvert/underpass >= 48".

12. Right of Way – **American Surveying and Engineering** See attached detailed scope of work.
    a. Establish existing ROW at each culvert location.
    b. Establish project control at each location, horizontal and vertical.
    c. Prepare plats and legal descriptions for an assumed 4 parcels.

CiorbaGroup
CONSULTING ENGINEERS

WORK BREAKDOWN STRUCTURE

1/19/2023

		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		2407	94	100	24	209	335	288	68	587	112	303	287
1.		Meetings, Data Collection & Coordination	Task Total:	118		44		40	34						
	0100	Meetings	Subtotal:	54		8		26	20						
		Meetings with Owner (3 mtg x 1 hrs/mtg x 3 of staff)		9		3		3	3						
		Meetings with Detour Committee (2 mtg x 1 hrs/mtg x 1 of staff)		2		2									
		Meetings with Other Agency (3 mtg x 1 hrs/mtg x 3 of staff)		9		3		3	3						
		Site Visit		28				14	14						
		Meeting Minutes (3 mtg x 1 hr/mtg minutes)		3				3							
		Prepare Agenda/Exhibits for Meetings (3 mtg x 1 hr/mtg minutes)		3				3							
	0120	Coordination	Subtotal:	64		36		14	14						
		Coordination with Owner and Owner Reps		14		14									
		Coordination with Project Team (1 hr/mo. x 14 mo.)		42		14		14	14						
		Subconsultants Coordination		8		8									
		Coordination with Utilities		80						80					
2.		Survey	Task Total:	107										16	91
	0210	Field Survey	Subtotal:	67										16	51
		Project Setup (1 hr per location)		7											7
		Horizontal Topography (assume 200-300 ft per hour)		14											14
		Cross Sections (assume 300 ft per hour)		14											14
		Stream Survey		32										16	16
	0220	Process Survey	Subtotal:	40											40
		Down Loading Total Station (1-2 hrs per down load every 2-3 days of topo)		4											4
		Drafting Existing Conditions (4,000 ft per day)		8											8
		Add Utilities to Existing Conditions (2 hrs/sheet)		14											14
		Create Digital Terrain Model		14											14
3.		Water Resources	Task Total:	780		24		104	104	228		320			
	0310	Preliminary Stormwater Analysis	Subtotal:	206				32	26	68		80			
		Hydrologic Modeling (C 568)		32				2	10			20			
		Hydraulic Modeling (C 364)		76				12		40		24			
		Alternatives Analysis (C 568 & UPRR)		40				8	16			16			
		Floodplain Compensatory Storage Analysis (C 364)		32				4		16		12			
		Evaluate Existing Drainage System (C 568)		6				2		4					
		Proposed Drainage System (C 568)		20				4		8		8			
	0320	Stormwater Reports	Subtotal:	126		6		28		56		36			
		Drainage Tech Memo (C 568)		38		2		8		16		12			
		Feasibility Report (UPRR)		38		2		8		16		12			
		Hydraulic Report (C 364)		50		2		12		24		12			

CiorbaGroup
CONSULTING ENGINEERS

WORK BREAKDOWN STRUCTURE

1/19/2023

		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:**	**268**				**40**	**24**	**104**		**100**			
		Storm Sewer Design (C 568)		16				2		6		8			
		Culvert Design (C 364)		20				4		8		8			
		Compensatory Storage Design (C 364)		32				4		16		12			
		Drainage Schedules (1 per contract)		16				2		6		8			
		Drainage Details (UPRR 1 sheet)		16				4		8		4			
		Erosion and Sediment Control / Landscaping Plans (24 hrs/sheet)		168				24	24	60		60			
	0360	**Permits**	**Subtotal:**	**180**		**18**		**4**	**54**			**104**			
		Permit - County (2)		82		8		2	24			48			
		Permit - USACE (2)		82		8		2	24			48			
		Permit - NPDES (2)		16		2			6			8			
4.		**Engineering Studies/Plans**	**Task Total:**	**800**		**4**		**33**	**117**	**44**		**255**		**287**	**60**
	0520	**Environmental Studies**	**Subtotal:**	**56**					**14**			**42**			
		Prepare ESR Exhibits (8 hrs/sheet)		56					14			42			
	0540	**Safety Studies**	**Subtotal:**	**16**					**4**			**12**			
		Barrier Warrant Analysis		16					4			12			
	0560	**Contract Plans**	**Subtotal:**	**212**		**4**		**12**	**36**			**36**		**64**	**60**
		Title Sheet (8 hrs/sheet)		16					2					14	
		Alignment, Ties and Benchmarks (16 hrs/sheet)		64					4						60
		Typical Sections (24 hrs/sheet)		48					8			20		20	
		General Notes/Index/Highway Standards/Commitments (8 hrs/sheet)		16					2					14	
		Summary of Quantities (4 hrs/sheet)		16					4			6		6	
		Schedule of Quantities (8 hrs/sheet)		16				2	2			6		6	
		Plan Assembly (2 hrs/submittal X total of 3 submittals X 2 contracts)		12					4			4		4	
		Disposition of Comments (4 hrs/submittal X total of 3 submittals X 2 contracts)		24		4		10	10						
	0570	**Roadway Plans**	**Subtotal:**	**516**				**21**	**63**	**44**		**165**		**223**	
		MOT General Notes and Description (8 hrs/sheet)		16					2			14			
		MOT Detour Plans (20 hrs/sheet)		140					28					112	
		Existing Conditions/and Proposed Plan (32 hrs/sheet)		224				21	21			91		91	
		Grading Plan (24 hrs/sheet)		24					4	20					
		Details (24 hrs/sheet)		48					8			20		20	
		Cross Sections (8 hrs/cross section)		64						24		40			
5.		**Structural Studies/Plans**	**Task Total:**	**374**			**18**		**40**		**68**		**112**		**136**
	0610	**Preliminary Culvert Engineering**	**Subtotal:**	**34**			**2**		**8**		**8**		**16**		
		Culvert Inspection-Inspect Skokie Valley Bike Path Under UPRR		8					4				4		
		Skokie Valley Culvert Inspection Report / Tech Memo		26			2		4		8		12		

CiorbaGroup
CONSULTING ENGINEERS

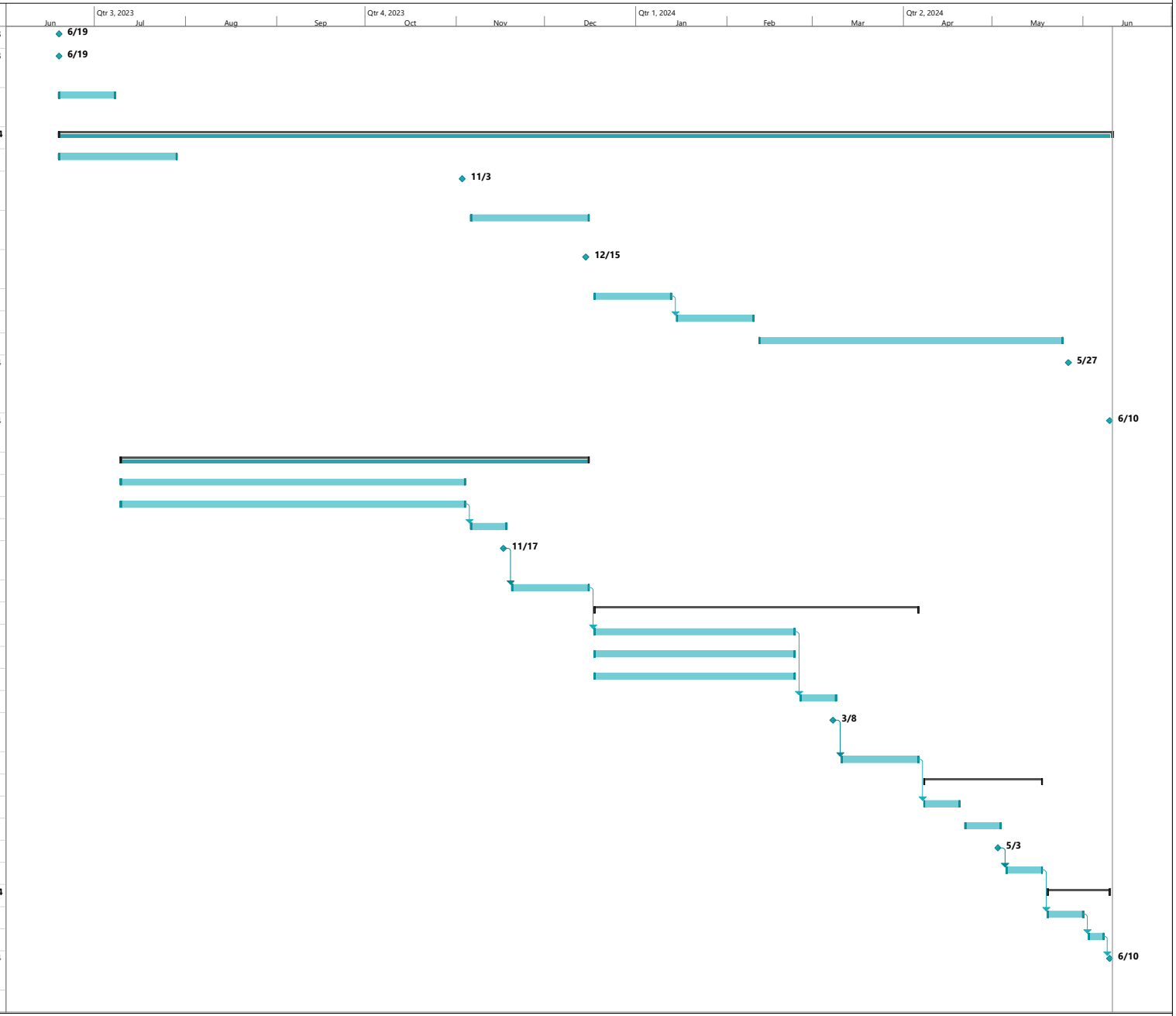
WORK BREAKDOWN STRUCTURE

1/19/2023

		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**	**Subtotal:**	**340**			**16**		**32**		**60**		**96**		**136**
		General Notes and Bill of Material (Skokie Valley Path)		66			2		4		12		16		32
		Culvert Repair Plans and Details (2 pages of repairs)-Skokie Valley Path		176			8		16		32		40		80
		Culvert Details (2 pages)-Culvert 1210, West Headwall		98			6		12		16		40		24
6.	**Quantity, Specifications & Estimates**		**Task Total:**	**106**			**6**	**32**	**40**	**16**		**12**			
	0700	**Subtotal**	**Subtotal:**	**106**			**6**	**32**	**40**	**16**		**12**			
		Quantity Calculations (Roadway)		16					2	8		6			
		Quantity Calculations (Water Resources)		16					2	8		6			
		Specifications (Roadway and General)		40				20	20						
		Specifications (Water Resources)		16				8	8						
		Specifications (Structural)		6			2		4						
		Estimate of Time		6			2	2	2						
		Estimate of Cost		6			2	2	2						
7.	**QC / QA**		**Task Total:**	**80**	**80**										
	0900	**QC / QA Subtotal**	**Subtotal:**	**80**	**80**										
		Roadway QC/QA		32	32										
		Water Resources QC/QA		32	32										
		Structural QC/QA		16	16										
8.	**Project Management & Administration**		**Task Total:**	**42**	**14**	**28**									
	1000	**Management Subtotal**	**Subtotal:**	**42**	**14**	**28**									
		Project Administration		14	14										
		Project Management		28		28									

EXHIBIT B
PROJECT SCHEDULE

ID	Task Name	Duration	Start	Finish
1	NTP	0 days	Mon 6/19/23	Mon 6/19/23
2	Kick-off Meeting w/LCDOT	0 days	Mon 6/19/23	Mon 6/19/23
3	Data Collection/Survey	15 days	Mon 6/19/23	Fri 7/7/23
4	**ROW Acquisition**	**256 days**	**Mon 6/19/23**	**Mon 6/10/24**
5	Data Collection	30 days	Mon 6/19/23	Fri 7/28/23
6	Finalize ROW Requirements	0 days	Fri 11/3/23	Fri 11/3/23
7	Plat of Highways Preparation	30 days	Mon 11/6/23	Fri 12/15/23
8	Plat & Legals Submittal	0 days	Fri 12/15/23	Fri 12/15/23
9	LCDOT Review	20 days	Mon 12/18/23	Fri 1/12/24
10	Appraisals	20 days	Mon 1/15/24	Fri 2/9/24
11	Negotiations	75 days	Mon 2/12/24	Fri 5/24/24
12	Final ROW Documents to LCDOT	0 days	Mon 5/27/24	Mon 5/27/24
13	ROW Certified by LCDOT	0 days	Mon 6/10/24	Mon 6/10/24
14	**Preliminary Submittal**	**115 days**	**Mon 7/10/23**	**Fri 12/15/23**
15	Environmental	85 days	Mon 7/10/23	Fri 11/3/23
16	Plan Preparation	85 days	Mon 7/10/23	Fri 11/3/23
17	QA/QC Review	10 days	Mon 11/6/23	Fri 11/17/23
18	Preliminary Plan Submittal	0 days	Fri 11/17/23	Fri 11/17/23
19	LCDOT Review	20 days	Mon 11/20/23	Fri 12/15/23
20	**Prefinal Submittal**	**80 days**	**Mon 12/18/23**	**Fri 4/5/24**
21	Plan Preparation	50 days	Mon 12/18/23	Fri 2/23/24
22	Environmental	50 days	Mon 12/18/23	Fri 2/23/24
23	Permitting	50 days	Mon 12/18/23	Fri 2/23/24
24	QA/QC Review	10 days	Mon 2/26/24	Fri 3/8/24
25	Prefinal Plan Submittal	0 days	Fri 3/8/24	Fri 3/8/24
26	LCDOT Review	20 days	Mon 3/11/24	Fri 4/5/24
27	**Final Submittal**	**30 days**	**Mon 4/8/24**	**Fri 5/17/24**
28	Plan Preparation	10 days	Mon 4/8/24	Fri 4/19/24
29	QA/QC Review	10 days	Mon 4/22/24	Fri 5/3/24
30	Final Plan Submittal	0 days	Fri 5/3/24	Fri 5/3/24
31	LCDOT Review	10 days	Mon 5/6/24	Fri 5/17/24
32	**Bid Documents**	**15 days**	**Mon 5/20/24**	**Mon 6/10/24**
33	Plan Update	10 days	Mon 5/20/24	Fri 5/31/24
34	QA/QC Review	5 days	Mon 6/3/24	Fri 6/7/24
35	Bid Package Submittal	0 days	Mon 6/10/24	Mon 6/10/24
36	**June 2024 Letting**			



Project: Project1
Date: Thu 5/11/23

Task | Summary | Inactive Milestone | Duration-only | Start-only | External Milestone | Manual Progress
Split | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Deadline
Milestone | Inactive Task | Manual Task | Manual Summary | External Tasks | Progress

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Lake County Div. of Transportation	Lake	

Prime Consultant (Firm) Name	Prepared By	Date
Ciorba Group, Inc.	DLD	4/3/2023

Consultant / Subconsultant Name	Job Number
Ciorba Group, Inc.	

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

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/5/2023	1/1/2024	7	58.33%
1	1/2/2024	6/1/2024	5	42.50%

The total escalation = 0.83%

Local Public Agency	County	Section Number
Lake County Div. of Transportation	Lake	

Consultant / Subconsultant Name	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	**0.83%**

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	$86.00	$86.00
Project Manager	$86.00	$86.00
Lead Structural Engineer	$86.00	$86.00
Sr. Project Engineer	$72.72	$73.33
Project Engineer	$56.94	$57.41
Senior Engineer	$47.25	$47.64
Structures Engineer II	$42.00	$42.35
Engineer II	$38.43	$38.75
Structures Engineer I	$37.00	$37.31
Engineer I	$35.92	$36.22
Senior Technician	$49.50	$49.91

Local Public Agency	County	Section Number
Lake County Div. of Transportation	Lake	

Consultant / Subconsultant Name	Job Number
Ciorba Group, Inc	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
American Surveying & Engineering	25,245.00	2,524.50
Rubino Engineering, Inc.	7,969.00	796.90
Huff & Huff	9,090.00	909.00
Sanchez & Associates, P.C.	4,090.00	409.00

Total	46,394.00	4,639.40

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

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	10	$65.00	$650.00
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
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
ComEd Review		1	$1,500.00	$1,500.00
IDNR Permit Review		1	$250.00	$250.00
				$0.00
				$0.00
			TOTAL DIRECT COSTS:	**$2,400.00**

Local Public Agency
Lake County Div. of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
Ciorba Group, Inc.

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 145.08%

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
Coordination & Meetings	1,565	118	8,669	12,577	2,861		24,107	4.16%
Topographic Survey	520	107	5,122	7,430	1,690		14,242	2.46%
Water Resouces	250	780	38,924	56,471	12,845		108,240	18.69%
Engineering Studies/Plans		800	34,849	50,558	11,500		96,907	16.73%
Structural Studies/Plans	65	374	17,691	25,666	5,838		49,195	8.49%
Quantity, Specifications & Estimates		106	6,386	9,265	2,107		17,758	3.07%
QC/QC		80	6,880	9,982	2,270		19,132	3.30%
Project Management & Admin.		42	3,612	5,240	1,192		10,044	1.73%
American Surveying and Eng.			-	-	-	116,518	116,518	20.12%
Rubino Engineering, Inc.			-	-	-	58,570	58,570	10.11%
Huff & Huff			-	-	-	48,531	48,531	8.38%
Sanchez			-	-	-	8,879	8,879	1.53%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
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			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
Subconsultant DL							$4,594.59	0.79%
Direct Costs Total ===>	$2,400.00						**$2,400.00**	0.41%
TOTALS		2407	122,133	177,189	40,303	232,498	579,118	100.00%

299,322

BLR 05514 (Rev. 02/09/23)

The subconsultant fee has been adjusted due to 15% fixed f

COST EST

Local Public Agency
Lake County Div. of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
Ciorba Group, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Coordination & Meetings			Topographic Survey			Water Resouces			Engineering Studies/Plans			Structural 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	94.0	3.91%	3.36															
Project Manager	86.00	100.0	4.15%	3.57	44	37.29%	32.07				24	3.08%	2.65	4	0.50%	0.43			
Lead Structural Engineer	86.00	24.0	1.00%	0.86													18	4.81%	4.14
Sr. Project Engineer	73.33	209.0	8.68%	6.37	40	33.90%	24.86				104	13.33%	9.78	33	4.13%	3.02			
Project Engineer	57.41	335.0	13.92%	7.99	34	28.81%	16.54				104	13.33%	7.66	117	14.63%	8.40	40	10.70%	6.14
Senior Engineer	47.64	288.0	11.97%	5.70							228	29.23%	13.93	44	5.50%	2.62			
Structures Engineer II	42.35	68.0	2.83%	1.20													68	18.18%	7.70
Engineer II	38.75	587.0	24.39%	9.45							320	41.03%	15.90	255	31.88%	12.35			
Structures Engineer I	37.31	112.0	4.65%	1.74													112	29.95%	11.17
Engineer I	36.22	303.0	12.59%	4.56				16	14.95%	5.42				287	35.88%	12.99			
Senior Technician	49.91	287.0	11.92%	5.95				91	85.05%	42.45				60	7.50%	3.74	136	36.36%	18.15
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
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		0.0																	
		0.0																	
TOTALS		2407.0	100%	$50.74	118.0	100.00%	$73.47	107.0	100%	$47.86	780.0	100%	$49.90	800.0	100%	$43.56	374.0	100%	$47.30

Local Public Agency
Lake County Div. of Transportation

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Consultant / Subconsultant Name
Ciorba Group, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Quantity, Specifications & Estimates			QC/QC			Project Management & Admin.			American Surveying and Eng.			Rubino Engineering, Inc.			Huff & Huff		
		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				80	100.00%	86.00	14	33.33%	28.67									
Project Manager	86.00							28	66.67%	57.33									
Lead Structural Engineer	86.00	6	5.66%	4.87															
Sr. Project Engineer	73.33	32	30.19%	22.14															
Project Engineer	57.41	40	37.74%	21.67															
Senior Engineer	47.64	16	15.09%	7.19															
Structures Engineer II	42.35																		
Engineer II	38.75	12	11.32%	4.39															
Structures Engineer I	37.31																		
Engineer I	36.22																		
Senior Technician	49.91																		
TOTALS		106.0	100%	$60.25	80.0	100%	$86.00	42.0	100%	$86.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Scope of Work

PROJECT SUMMARY

Project Name Culvert Replacement Program Survey & Services ASE Proposal No. 223004

Owner Lake County Department of Transportation (LCDOT) Date January 18, 2023

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

Project Description – ASE will provide professional services including control survey, boundary survey and plats and legal descriptions for Lake County Department's Culvert Replacement Survey. ASE will also provide appraisals, negotiations, and closing services. ASE assumes there will be four acquisition easement plats which will include permanent and temporary easements, and legal descriptions. The PINS for easement plats assumed are: 10-33-201-118; 10-34-100-040; 13-10-400-011; 13-15-200-003. ASE will provide appraisals, negotiation services, and arrange for closing services for these same four parcels.

Project Location: The project is for seven culvert replacement locations in Lake County, Illinois.

Project Limits: See Location Map as provided by CLIENT for specific locations and additional information.

- Skokie Valley Bike Path/UPRR Underpass
- Culvert 364
- Culvert 568
- Culvert 1210
- Culvert 1215
- Culvert 1223
- Culvert 1241

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. American Surveying & Engineering shall not be responsible for any erroneous or missing information provided by underground utility providers.
3. All previous and relevant survey information such as 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.
4. Owner/Agent will provide a Letter of Introduction to facilitate field operations.
5. Hazardous Waste sites designated as requiring protective equipment of "Class D" or greater will not be entered unless provided for otherwise in the Scope of Work Tasks.
6. American Surveying & Engineering is not signatory to any organized labor agreements. We will not provide services in any capacity where labor disputes may exist. We will not be responsible for costs or delays associated with labor disputes relevant to work on this project.

7. Field work performed on this project are subject to the vagaries of weather. In the event weather impairs our ability to perform any specified professional services, we will contact the Owner/Agent to determine changes in schedule or cost. No additional work will be performed until the owner/agent has reviewed and approved a revised cost or schedule.
8. For underground drainage, sewerage and utility features, reduced field detail sketches will be the final deliverables provided for underground/structural details (no CADD annotations or connections will be given on final deliverables). *Manholes or other confined spaces (as defined by OSHA) will not be entered or cleaned. Invert elevation, pipe size/type were obtained from surface level and should be used as a check on plan information only. For design purposes field verification by below grade examination (SUE) should be performed.*
9. This proposal assumes the flowlines of project drainage structures (culverts, manholes, inlets, etc.) will be surveyed as existing conditions. ASE will not clean, excavate, pump or otherwise remove debris, silt, trash or other material from project structures.
10. ASE will begin work after Notice to Proceed at a mutually agreed upon date.
11. This SOW shall become part of the contract between Owner/Agent and ASE.

PROPOSED 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. Perform Lake County/IDOT parcel and Right of Way research as required.
   2.2. Compile, review, and index information
   2.3. Prepare compiled information for field and office tasks.

3. Horizontal and Vertical Control– Datum assumed is Illinois State Plane East Zone (2011 Adjustment), and Vertical Datum will be NAVD88. Control for each site will be recovered and verified independent of the other sites.
   3.1. Site Horizontal (H) and Vertical (V) Datum will be established by GPS observations. No level circuits will be run between sites to adjust elevations.
   3.2. Set additional control points and benchmarks required to facilitate the survey.
   3.3. Office calculations, adjustment, tabulations of coordinates, and working drawings.

4. Establish Existing ROW and property lines for parcels immediately adjacent to the 7 culvert locations.
   4.1. Review Title Commitments. (ASE will order title commitments)
   4.2. Search and survey existing ROW and property boundary monuments and other evidence.
   4.3. Office calculations of boundaries. Use property owner deed boundary information and record documents to prepare calculations. Perform office calculations to determine location of property owner deed boundaries & existing ROW.

5. Land Acquisition Documents – ASE assumes four (4) acquisition easement plats which will include permanent and temporary easements, and legal descriptions. The PINS for easement plats assumed are: 10-33-201-118; 10-34-100-040; 13-10-400-011; 13-15-200-003.
    5.1. Boundary survey for 4 acquisition parcels
        5.1.1.Survey parcels for acquisition parcels
    5.2. Land Acquisition Documents – Plats will be to IDOT standards.
        5.2.1.Prepare Parcel Plats
        5.2.2. Parcel calculations.
        5.2.3. Parcel descriptions.
    5.3. Stake Right-of-Way. (Assume 42 points – 6 at each location)
        5.3.1. Calculations and staking plans.
        5.3.2. Field staking of acquisitions.
    5.4. Prepare Deliverables
        5.4.1. MicroStation file of existing right of way and adjacent parcel boundaries.
        5.4.2. Parcel Plats and Legal Descriptions (both permanent and temporary easements) for four (4) acquisition easement parcels.

6. Appraisals (Assume 4 appraisals on 4 affected PINs.)
    6.1. Coordinate Owner contact with Appraiser.
    6.2. Market Data Analysis of Subject property.
    6.3. Market Data Research.
    6.4. Meet with owner and conduct property inspection.
    6.5. Inspection and verification of comparable sale properties.
    6.6. Valuation Analysis.
    6.7. Preparation of Appraisal reports.
    6.8. Coordination with Review appraiser.

7. Negotiations (Assume 4 parcels)
    7.1. Assemble and review title, plat, appraisal, contract plans and conveyance documents.
    7.2. Prepare Introductory Letter in name of County.
    7.3. Schedule and conduct meeting with property owner to present Offer to Purchase.
    7.4. Negotiate with owner, communicate owner concerns to County, focused on settlement.
    7.5. Present counteroffers, limited to three.
    7.6. After 3 contacts with owner, if not accepted send 60-day letter.
    7.7. Secure proper conveyance documents.
    7.8. Maintain Negotiator's Log.
    7.9. Secure IDOT Certification.

8. Land Acquisition Closing Services [By Others] (Assume 4 parcels)
    8.1. Coordinate with Title Service to perform closing.
    8.2. Coordinate with Title Service to record conveyance documents.

9. QA/QC
    9.1. Review contract documents and survey requirements to verify ASE project QA/QC requirements.
    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 in MicroStation V8i/SS10
C. Parcel Plats and legal descriptions for land acquisition parcels to IDOT Acquisition Plat Requirements.
D. Existing ROW base file.
E. Appraisal report.
F. Negotiator's log and report.
G. Receipt of the recording conveyance documents.

DIRECT COST ITEMS

- Title Commitments (if required) – Cost each list below:
    - 10-33-201-008 $550.00 (Res)
    - 10-34-100-040 $650.00 (Com)
    - 12-29-100-014 $650.00 (Com)
    - 12-29-100-018 $1,450.00 (RR)
    - 13-10-400-011 $550.00 (Res)
    - 13-15-200-003 $650.00 (Com)
    - 16-05-200-005 $1,450.00 (RR)
    - 16-05-400-002 $650.00 (Com)
    - 16-22-300-031 $650.00 (Com)
    - 16-34-200-001 $650.00 (Com)
    - 16-34-200-002 $650.00 (Com)
    - 16-35-100-015 $650.00 (Com)
    - 16-35-300-021 $1,450.00 (RR)

    Total = $10,650.00

Direct & Unit Costs					
Courthouse Records Research		Each	$10.00	4	$40.00
Title Commitments (See Above for Breakout)		Total	$10,650.00	1	$10,650.00
Appraisals (Unit)		Each	$2,744.00	4	$10,976.00
Review Appraisals (Unit)		Each	$1,492.00	0	$0.00
Negotiations (Unit)		Each	$4,477.00	4	$17,908.00
Closings		Each	$740.00	4	$2,960.00
				TOTAL	**$42,534.00**

ITEMS SUPPLIED BY OTHERS

A. Record plans, including any previous survey information (if available).
B. All pertinent site information including, but not limited to previous horizontal and vertical survey control survey information, 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.

AMERICAN SURVEYING & ENGINEERING, P.C.

PROJECT: Culvert Replacement Program - Survey and Services

LOCATION: Lake County **PROPOSAL No.: 223004**
CLIENT: Ciorba **DATE: 4/3/2023**

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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
1.1	Meetings, reports, scheduling, etc.		2		4																	6
1.2	Technical Direction of Staff		2		4																	6
1.3	Project management & coord.		2		4																	6
1.4																						0
1.5																						0
1.6																						0
1.7																						0
1.8																						0
1.9																						0
																						0
	TOTAL HOURS	0	6	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18

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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
2.1	Courthouse & Data Research		2		5																	7
2.2	Compile & Review data		4		5																	9
2.3	Catalog and transfer to field		2		6																	8
2.4																						0
2.5																						0
2.6																						0
2.7																						0
2.8																						0
2.9																						0
																						0
	TOTAL HOURS	0	8	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24

TASK	3.0 Horizontal & Vertical 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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
3.1	Recon. & locate existing mon's.		1		2					7	7											17
3.2	Traverse/GPS		1		2					7	7											17
3.3	Office Calc's.		1		2																	3
3.4																						0
3.5																						0
3.6																						0
3.7																						0
3.8																						0
3.9																						0
																						0
	TOTAL HOURS	0	3	0	6	0	0	0	0	14	14	0	0	0	0	0	0	0	0	0	0	37

TASK	4.0 Establish Existing ROW	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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
4.1	Review title commitment		4		8																	12
4.2	Search & survey monuments		2		4					60	60											126
4.3	Office calcs		8		50																	58
4.4																						0
4.5																						0
4.6																						0
4.7																						0
4.8																						0
4.9																						0
																						0
	TOTAL HOURS	0	14	0	62	0	0	0	0	60	60	0	0	0	0	0	0	0	0	0	0	196

AMERICAN SURVEYING & ENGINEERING, P.C.

PROJECT: Culvert Replacement Program - Survey and Services
LOCATION: Lake County **PROPOSAL No.** 223004
CLIENT: Ciorba **DATE:** 4/3/2023

TASK	5.0 Land Acq Documents	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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
5.1	Boundary surveys for 4 parcels		2							56	56											114
5.2	Land Acq. Documents		2			10		40														52
5.3	Stake ROW		2			2				24	24											52
5.4	Prepare Deliverables	2	4			4		10														20
5.5																						0
5.6																						0
5.7																						0
5.8																						0
5.9																						0
																						0
	TOTAL HOURS	2	10	0	0	16	0	50	0	80	80	0	0	0	0	0	0	0	0	0	0	238

TASK	6.0 Appraisals (4 parcels)[See Unit Costs]	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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
6.1	Coordinate with Owner																					0
6.2	Market Data Analysis																					0
6.3	Market Data Research																					0
6.4	Meet with owner - inspection																					0
6.5	Comparable sales																					0
6.6	Valuation analysis																					0
6.7	Preparation of Appraisal Reports																					0
6.8	Cooridinate with Negotiator																					0
6.9																						0
																						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 Negotiations (4 parcels)[See Unit Costs]	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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
7.1	Assemble & Review																					0
7.2	Prepare introductory letter																					0
7.3	Meet with owner to present offer																					0
7.4	Negotiate with owner																					0
7.5	Present counter offers (limit 3)																					0
7.6	Secure conveyance documents																					0
7.7	Maintain Negotiator's Log																					0
7.8	Secure IDOT Certification																					0
7.9																						0
																						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 Land Acq Closing Services[See Unit Costs]	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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
8.1	Coordinate the closing																					0
8.2	Coordinate the recordation																					0
8.3																						0
8.4																						0
8.5																						0
8.6																						0
8.7																						0
8.8																						0
8.9																						0
																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AMERICAN SURVEYING & ENGINEERING, P.C.

PROJECT: Culvert Replacement Program - Survey and Services
LOCATION: Lake County **PROPOSAL No.:** 223004
CLIENT: Ciorba **DATE:** 4/3/2023

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	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
9.1	Review Documents & prepare plan		2		4																	6
9.2	Periodic review		2		4																	6
9.3	Final review & report		2		4																	6
9.4																						0
9.5																						0
9.6																						0
9.7																						0
9.8																						0
9.9																						0
																						0
	TOTAL HOURS	0	6	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18

TASK	10	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	ROW2	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
																						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	11	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	ROW2	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
																						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	12	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	ROW2	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
																						0
	TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AMERICAN SURVEYING & ENGINEERING, P.C.

PROJECT: Culvert Replacement Program - Survey and Services

LOCATION: Lake County

CLIENT: Ciorba

PROPOSAL No. : 223004

DATE: 4/3/2023

SUMMARY OF TASKS — MANHOURS

TASK	PIC	PM	P S/E 4	P S/E 3	P S/E 2	P S/E 1	CADD	ST4	ST3	ST2	ST1	ROW 4	ROW 3	ROW2	ROW 1	SUE 3	SUE 2	SUE 1	A/C 3	A/C 2	TOTAL
1.0 Administration	0	6	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
2.0 Data Compilation	0	8	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
3.0 Horizontal & Vertical Control	0	3	0	6	0	0	0	0	14	14	0	0	0	0	0	0	0	0	0	0	37
4.0 Establish Existing ROW	0	14	0	62	0	0	0	0	60	60	0	0	0	0	0	0	0	0	0	0	196
5.0 Land Acq Documents	2	10	0	0	16	0	50	0	80	80	0	0	0	0	0	0	0	0	0	0	238
6.0 Appraisals (4 parcels)[See Unit Costs]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0 Negotiations (4 parcels)[See Unit Costs]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0 Land Acq Closing Services[See Unit Costs]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0 QA/QC	0	6	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hours	2	47	0	108	16	0	50	0	154	154	0	0	0	0	0	0	0	0	0	0	531

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	

Prime Consultant (Firm) Name	Prepared By	Date
Ciorba	Tom Balser	3/27/2023

Consultant / Subconsultant Name	Job Number
American Surveying & Engineering, P.C.	

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

Remarks

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

PAYROLL ESCALATION TABLE

CONTRACT TERM	12	MONTHS	OVERHEAD RATE	160.06%
START DATE	4/1/2023		COMPLEXITY FACTOR	
RAISE DATE			% OF RAISE	2.00%
END DATE	3/31/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	4/1/2023			

The total escalation = 0.00%

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	**0.00%**

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	$77.17
PROJECT SURVEYOR/ENGINEER 3	$65.92	$65.92
PROJECT SURVEYOR/ENGINEER 2	$48.28	$48.28
PROJECT SURVEYOR/ENGINEER 1	$40.00	$40.00
CADD TECHNICIANS	$43.83	$43.83
ENGINEERING/SURVEY TECHNICIAN 4	$64.66	$64.66
ENGINEERING/SURVEY TECHNICIAN 3	$42.17	$42.17
ENGINEERING/SURVEY TECHNICIAN 2	$31.47	$31.47
ENGINEERING/SURVEY TECHNICIAN 1	$19.96	$19.96
RIGHT-OF-WAY SPECIALIST 4	$63.17	$63.17
RIGHT-OF-WAY SPECIALIST 3	$43.83	$43.83
RIGHT-OF-WAY SPECIALIST 2	$33.82	$33.82
RIGHT-OF-WAY SPECIALIST 1	$24.60	$24.60
SUBSURFACE UTILITY SPECIALIST 3	$44.00	$44.00
SUBSURFACE UTILITY SPECIALIST 2	$29.50	$29.50
SUBSURFACE UTILITY SPECIALIST 1	$24.55	$24.55
ADMINISTRATIVE/CLERICAL 3	$30.00	$30.00
ADMINISTRATIVE/CLERICAL 2	$22.75	$22.75
ADMINISTRATIVE/CLERICAL 1	$16.60	$16.60

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	

Consultant / Subconsultant Name	Job Number
American Surveying & Engineering, P.C.	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant

Total **0.00** **0.00**

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

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

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
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Appraisals	Unit Cost	4	$2,744.00	$10,976.00
Negotiations	Unit Cost	4	$4,477.00	$17,908.00
Closings (Services by Others)	Unit Cost	4	$740.00	$2,960.00
Title Commitments + Records Fee- Total - See Scope for Breakout	Varies	1	$10,690.00	$10,690.00
			TOTAL DIRECT COSTS:	**$42,534.00**

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
American Surveying & Engineering, P.C.

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 160.06%

COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
1.0 Administration		18	1,259	2,015	415		3,689	3.17%
2.0 Data Compilation		24	1,679	2,687	554		4,920	4.22%
3.0 Horizontal & Vertical Control		37	1,660	2,658	548		4,866	4.18%
4.0 Establish Existing ROW		196	9,597	15,362	3,167		28,126	24.14%
5.0 Land Acq Documents	10,690	238	9,791	15,672	3,231		28,694	24.63%
6.0 Appraisals (4 parcels)[See Unit Costs]	10,976		-	-	-		-	0.00%
7.0 Negotiations (4 parcels)[See Unit Costs]	17,908		-	-	-		-	0.00%
8.0 Land Acq Closing Services[See Unit Costs]	2,960		-	-	-		-	0.00%
9.0 QA/QC		18	1,259	2,015	415		3,689	3.17%
10			-	-	-		-	0.00%
11			-	-	-		-	0.00%
12			-	-	-		-	0.00%
13			-	-	-		-	0.00%
14			-	-	-		-	0.00%
15			-	-	-		-	0.00%
16			-	-	-		-	0.00%
17			-	-	-		-	0.00%
18			-	-	-		-	0.00%
19			-	-	-		-	0.00%
20			-	-	-		-	0.00%
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
			-	-	-		-	
Subconsultant DL							$0.00	
Direct Costs Total ===>	$42,534.00						**$42,534.00**	36.50%
TOTALS		531	25,245	40,409	8,330	-	116,518	63.50%

65,654

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
American Surveying & Engineering, P.C.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1.0 Administration			2.0 Data Compilation			3.0 Horizontal & Vertical Control			4.0 Establish Existing ROW			5.0 Land Acq Documents		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
PRINCIPAL IN CHARGE	78.00	2.0	0.38%	0.29	0			0			0			0			2	0.84%	0.66
PROJECT MANAGER	78.00	47.0	8.85%	6.90	6	33.33%	26.00	8	33.33%	26.00	3	8.11%	6.32	14	7.14%	5.57	10	4.20%	3.28
PROJECT SURVEYOR/EN	77.17	0.0			0			0			0			0			0		
PROJECT SURVEYOR/EN	65.92	108.0	20.34%	13.41	12	66.67%	43.95	16	66.67%	43.95	6	16.22%	10.69	62	31.63%	20.85	0		
PROJECT SURVEYOR/EN	48.28	16.0	3.01%	1.45	0			0			0			0			16	6.72%	3.25
PROJECT SURVEYOR/EN	40.00	0.0			0			0			0			0			0		
CADD TECHNICIANS	43.83	50.0	9.42%	4.13	0			0			0			0			50	21.01%	9.21
ENGINEERING/SURVEY T	64.66	0.0			0			0			0			0			0		
ENGINEERING/SURVEY T	42.17	154.0	29.00%	12.23	0			0			14	37.84%	15.96	60	30.61%	12.91	80	33.61%	14.17
ENGINEERING/SURVEY T	31.47	154.0	29.00%	9.13	0			0			14	37.84%	11.91	60	30.61%	9.63	80	33.61%	10.58
ENGINEERING/SURVEY T	19.96	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	63.17	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	43.83	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	33.82	0.0			0			0			0			0			0		
RIGHT-OF-WAY SPECIAL	24.60	0.0			0			0			0			0			0		
SUBSURFACE UTILITY SP	44.00	0.0			0			0			0			0			0		
SUBSURFACE UTILITY SP	29.50	0.0			0			0			0			0			0		
SUBSURFACE UTILITY SP	24.55	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERIC	30.00	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERIC	22.75	0.0			0			0			0			0			0		
ADMINISTRATIVE/CLERIC	16.60	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		531.0	100%	$47.54	18.0	100.00%	$69.95	24.0	100%	$69.95	37.0	100%	$44.88	196.0	100%	$48.97	238.0	100%	$41.14

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
American Surveying & Engineering, P.C.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	6.0 Appraisals (4 parcels)[See Unit Costs]			7.0 Negotiations (4 parcels)[See Unit Costs]			8.0 Land Acq Closing Services[See Unit Costs]			9.0 QA/QC			10			11		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
PRINCIPAL IN CHARGE	78.00	0			0			0			0			0			0		
PROJECT MANAGER	78.00	0			0			0			6	33.33%	26.00	0			0		
PROJECT SURVEYOR/ENG	77.17	0			0			0			0			0			0		
PROJECT SURVEYOR/ENG	65.92	0			0			0			12	66.67%	43.95	0			0		
PROJECT SURVEYOR/ENG	48.28	0			0			0			0			0			0		
PROJECT SURVEYOR/ENG	40.00	0			0			0			0			0			0		
CADD TECHNICIANS	43.83	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	64.66	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	42.17	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	31.47	0			0			0			0			0			0		
ENGINEERING/SURVEY TE	19.96	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	63.17	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	43.83	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	33.82	0			0			0			0			0			0		
RIGHT-OF-WAY SPECIALIS	24.60	0			0			0			0			0			0		
SUBSURFACE UTILITY SPE	44.00	0			0			0			0			0			0		
SUBSURFACE UTILITY SPE	29.50	0			0			0			0			0			0		
SUBSURFACE UTILITY SPE	24.55	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICA	30.00	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICA	22.75	0			0			0			0			0			0		
ADMINISTRATIVE/CLERICA	16.60																		
TOTALS		0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	18.0	100%	$69.95	0.0	0%	$0.00	0.0	0%	$0.00

Huff & Huff incorporated
A Subsidiary of GZA

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

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www.huffnhuff.com
www.gza.com

January 19, 2023 via email: ddecker@ciorba.com

Ms. Diana Decker, P.E. – Vice President - Roadway
Ciorba Group
8725 W. Higgins Road – Suite 600
Chicago, IL 60631

Re: CCDD Spoils Management Assistance, Wetland and Bat Surveys
2024 Culvert Replacement Projects, Various Locations, Lake County, Illinois
Proposal No.: 81.P002025.23

Dear Ms. Decker:

Huff & Huff, Inc. a subsidiary of GZA, Inc. (H&H) is pleased to submit this proposal to Ciorba Group (Client) to perform soil management documentation for final disposition at Clean Construction and Demolition Debris (CCDD) facilities, wetland delineation/reporting, and assessment of bat habitat for culvert structures greater or equal to 48" diameter. This proposal presents our project approach, the scope of services, cost, and schedule for completing the project.

1. INTRODUCTION

Client has provided details of the project areas in a 19-page document from the Lake County Division of Transportation (LCDOT) which includes a series of project location figures and various project details which shall serve as the basis of our understanding to prepare this scope and fee and are attached to this document for reference. We understand the drainage improvements at the Skokie Valley Bike Path (SVBP) and the Union Pacific Railroad (UPRR) underpass and replacement includes seven (7) separate project areas, as follows:

- Culvert 364 (Gilmer Rd- 250 feet north of Chevy Chase Rd);
- Culvert 568 (Miller Rd- 900 feet east of Wedgewood Ln);
- Culvert 1210 (SVBP between Lake Cook Rd & Clavey Rd);
- Culvert 1215 (SVBP between Clavey Rd & Old Deerfield Rd);
- Culvert 1223 (SVBP between Old Deerfield Rd & Park Ave W);
- Culvert 1241 (SVBP between Westleigh Rd & Deerpath Rd); and
- Skokie Valley Bike Path Underpass (21027).

Further, we understand that there will be two (2) separate contracts awarded, one including culverts for Miller Road and Gilmer Road and the second for the culverts and underpass associated with the SVBP. This proposal assumes that all work will be completed within the right-of-way ROW) for the trail and that we will not need to access the Railroad or ComEd ROWs. If access to either of these becomes necessary a change order will be needed for coordination to obtain access which may include fees for request and right-of-entry, additional insurance, and/or flaggers.

We anticipate that excavation and off-site final disposition of spoils, including soil and sediment is anticipated to accommodate these improvements. Since these involve culverts and sediments that include roadway runoff, we anticipate this project requiring the LPC-663 Form approach with sampling for potential contaminants of concern, regardless of if adjacent sites are identified as potentially impacted properties (PIPs).

2. SCOPE OF SERVICES

Task 1: CCDD Assessment and LPC-663 Form Documentation

Each of the seven (7) project areas will include the following sub-tasks to complete the CCDD assessment and LPC-Form documentation:

Sub-Task A: Research and Listing Confirmation

A database will be ordered for each of the seven (7) project locations to review for PIPs that would indicate a potential for contaminated soil in the project corridor(s). It will include a search of standard state and federal environmental record databases in accordance with the specifications of ASTM standards. This information is utilized to determine if sites exist within close-enough proximity to impact the project corridor and to identify the potential contaminants of concern that would require laboratory analysis to confirm or deny the presence of contaminants that may affect soil disposal considerations. Based on a preliminary review of limited database information, H&H has identified that it is possible that traditional PIPs do not exist associated with all of the project locations. However, given the anticipated conditions of sediments/culverts receiving roadway runoff and several locations within and/or adjacent to a former railroad right-of-way most CCDD facilities consider the nature of these project conditions to be PIPs requiring the LPC-663 Form approach. We will also pre-mark locations for the required JULIE notification during the site visit.

Sub-Task B: Soil and Sediment Sampling

An initial site visit will be conducted to mark boring locations for utility locates and to assess the project corridor. H&H proposes to conduct up to two (2) soil borings for each of the culvert replacement projects, to depths generally consistent with the proposed improvements, currently assumed to a depth of up to approximately four (4) feet deep via hand auger. Soil samples will be collected continuously to terminal depth and field assessed with a photo-ionization detector (PID) to aid in determining which samples to submit for laboratory analysis.

In addition, we propose to collect two (2) sediment samples from each culvert replacement project, from within the drainage ditches on either side of the culverts to be replaced. These will be collected by hand using a hand auger and/or shovel to a maximum depth of two (2) feet deep.

Sub-Task C: Laboratory Analytical

Soil samples will be collected continuously at each location to terminal depth with field screening of samples in 2 to 4-foot depth increments, depending on the depth of the boring or sampling location. One (1) sample per boring or sediment sampling location will be laboratory analyzed specifically to characterize the soils according to classifications established in IDOT Article 669.05. A total of twenty--eight (28) soil/sediment samples are therefore proposed for laboratory analysis 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

Sub-Task D: Prepare LPC Forms (7)

H&H will prepare the LPC-663 Form documentation based on the results of the due diligence performed and laboratory analysis, assumed to be one document for both of the seven (7) culvert improvement project locations. The deliverables to Client will include a cover memo summarizing the research, sampling, and results, the LPC-Form (signed and stamped by a P.E or P.G.) and supporting documentation including a narrative of the due diligence, sampling and analytical results, photo-log, database, figures, aerial photos, and pre-authorization documentation discussed in Sub-Task E below. Analytical results that do not achieve the MAC values (ineligible for CCDD disposal) and/or are not within the required soil pH range of 6.25 to 9.0 will be cited as exclusion zones and referenced as the appropriate IDOT Soil Classification per Article 669.05. Based on the results, we will provide recommendations regarding options for handling, reuse (if possible) and/or disposal (if necessary) at a Sanitary Landfill. It should be noted that if Sanitary Landfill disposal is necessary, additional analytical parameters will be required to obtain a profile to dispose of material as non-special waste. Landfill disposal characterization costs are not included with this proposal and will require a supplement, if necessary, to complete.

Sub-Task E: CCDD Facility Coordination

Time under this task will be used to coordinate with various CCDD and/or uncontaminated soil fill operation (USFO) facilities that are pre-approved for receiving uncontaminated soil and/or CCDD from Client projects. H&H will submit LPC-Form documentation from this specific project to the facilities in order to secure a minimum of three (3) project-specific, pre-approval letters for incorporation into the bidding specifications. However, it should be noted that CCDD and USFO facility response is beyond our control and in some cases, it may be problematic to receive a minimum of three (3) pre-authorizations. We understand Client will include language within the bidding specifications to encourage bidding contractors to utilize one of the pre-approved facilities for off-site final disposition of spoils from this project.

Task 2: Wetland and Surface Waters Delineation

H&H understands that regulated wetlands and waterways are potentially located within or adjacent to the limits of the proposed project locations. H&H proposes to conduct delineations for all areas within the project limits in accordance with:

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

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

- The completion of Preliminary Jurisdictional Determination (PJD) and Boundary Verification (BV), if required, is not included in this scope of work.
- Wetland and other permitting, mitigation design, plan preparation, monitoring, and management services are not included within this scope of work. If permitting with any agency related to impacts to wetlands or surface waters, or other natural resources are required, a separate scope of services and cost estimate will be prepared.

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:

- Current and historic 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 Advanced Identification of Wetlands (ADID) 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 proposes to conduct on-site investigations of all potential wetlands and surface waters within the project limits. Proposed services include the identification and delineation of wetlands. 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. H&H will flag boundaries of wetlands located within the Lake County portion of the project limits in accordance with the WDO, if appropriate. H&H will provide global positioning system (GPS) data for wetland and waterway boundaries.

C. Wetland Report

Upon completion of the field delineation, a Wetland Delineation Report will be prepared summarizing the findings of the offsite record/desktop review and the on-site investigation. Two separate wetland reports will be prepared as part of this task; one for the five culverts along the Skokie Valley Trail and one for the two culverts at Miller Road and Gilmer Road. The reports will be submitted to the Client as a PDF only. Separate reports for each culvert crossing are not included within this scope of services. The Shapefiles of the wetland and surface waters 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 showing the location, limits, and wetland boundaries within the project limits;
- Aerial photography depicting the appropriate limits of the delineated wetlands and surface waters;
- USACE data sheets with FQAs, as required;
- Color photographs of the wetlands and the data points; and
- Written description of wetland functional classification.

Task 3: Bat Bridge/Structure Habitat Assessment

This proposal includes an assessment of bat habitat within the project limits, specifically related to culvert structures. The bat assessment entails only the assessment of bridge, culverts, and any other structure over four (4) feet in height that have the potential to provide roosting habitat for bats; and expressly does not constitute surveys, mist netting, echolocation, or other, for presence of bats within the project or adjacent areas, or specific tree surveys to identify trees

that may provide suitable habitat for the northern long-eared bat (NLEB; *Myotis septentrionalis*), the Indiana bat (*Myotis sodalis*), or other listed bat species.

The USFWS and FHWA with the FRA and FTA standardized their approach to assessing impacts to federally listed bat species from highway construction and expansion projects, and for developing avoidance, minimization, and mitigation strategies. For projects with bridges, culverts, or any other structures over four (4) feet tall that have the potential to provide suitable roosting habitat, a preliminary assessment of the structure is required to confirm the presence or absence of evidence of bats. The methodology for the assessment follows guidelines from *"Appendix D: Bridge Inspection Guidance of the User's Guide for the Range-wide Programmatic Informal Consultation for Indiana Bat and Northern Long-eared Bat."* An inspection of the bridge, culverts, and any other structures over four (4) feet tall that has the potential to provide suitable roosting habitat for NLEB, present within survey limits will be conducted to confirm evidence for the potential presence of bats.

Bridges and structures located along large bodies of water associated with wide floodplains generally provide suitable habitat for the NLEB and other bat species by providing areas to roost, sources of food, and opportunities to mate. Suitable roosting habitat for the NLEB includes cracks in concrete and expansion joints and congregate in areas where a cave-like environment is present. These specific areas are mostly associated with the substructure or lower portion of a bridge.

The bridge/structure assessment guidelines focus on four indicators of bats, which include the following;

- Visual – bats flying or roosting;
- Audible – chirping or high-pitched squeaking;
- Physical – droppings, referred to as guano, consisting of black or brown pellets, which accumulate underneath roosting location. Older guano appears grey in color. Guano can adhere to support beams, columns, and walls; and
- Staining – "wet" and dark looking stains may be visible on the walls, support beams, columns, beneath joints, and on the ceiling of bridge. Stains are typically in dark places. Stains are approximately four to six inches wide.

The identification of any of the above listed indicators is sufficient documentation to confirm recent bat usage. All indicators and observations of live or dead bats and their approximate location on the bridge or structure will be recorded on the bridge/structure inspection form. Time under this task includes the field assessment and the completion of the formal IDOT BBA Form and an associated photographic log of each structure assessed. Time under this task does not include formal coordination with any agency for impacts to listed species.

The following limitations apply to this task:

- Bridge and structure inspections can typically only be completed during non-flood conditions, and/or conditions when water levels safely allow for human passage within culverts and beneath bridge structures.
- Bridge and structure inspections typically cannot be completed within traditional navigable waterways without use of a boat or other mechanical means and are not included within this scope of services.
- Bridge and structure inspections cannot typically be conducted within gated or fenced structures.
- In some cases, debris build-up within culverts and other structures may not allow for physical inspection.
- The USFWS and IDNR have the authority to require additional assessments.
- This task assumes that access to all structures will be provided by the client and that flaggers for surveys within railroad rights-of-way or on other railroad properties will not be required. If coordination with any railroad agency is required, a supplement will be needed to obtain access to railroad properties, if needed.

Task 4: Project Administration

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. This task includes preparing a Health and Safety Plan as appropriate for the project and tasks therein.

Task 5: QA/QC

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

3. PROJECT COSTS AND SCHEDULE

The fee for the currently proposed scope of services is included on the attached IDOT cost plus fixed fee (CPFF) worksheets. The CCDD documentation work will require 8 to 10 weeks to complete field work and reporting, asuming that sampling will commence in Spring 2023 since hand auger sampling is proposed. The wetland and surface waters delineation will be completed during the 2023 growing season, between May 15th and October 1st, and anticipated completion of the Wetland Delineation Reports within six weeks of completion of the field work. The bat surveys will be completed as soon as possible with an anticipated completion of the BBA Forms dependent on Client need and schedules. If an expedited schedule is necessary, H&H/GZA will coordinate with Client to establish a schedule that is appropriate for the project needs.

4. TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

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,

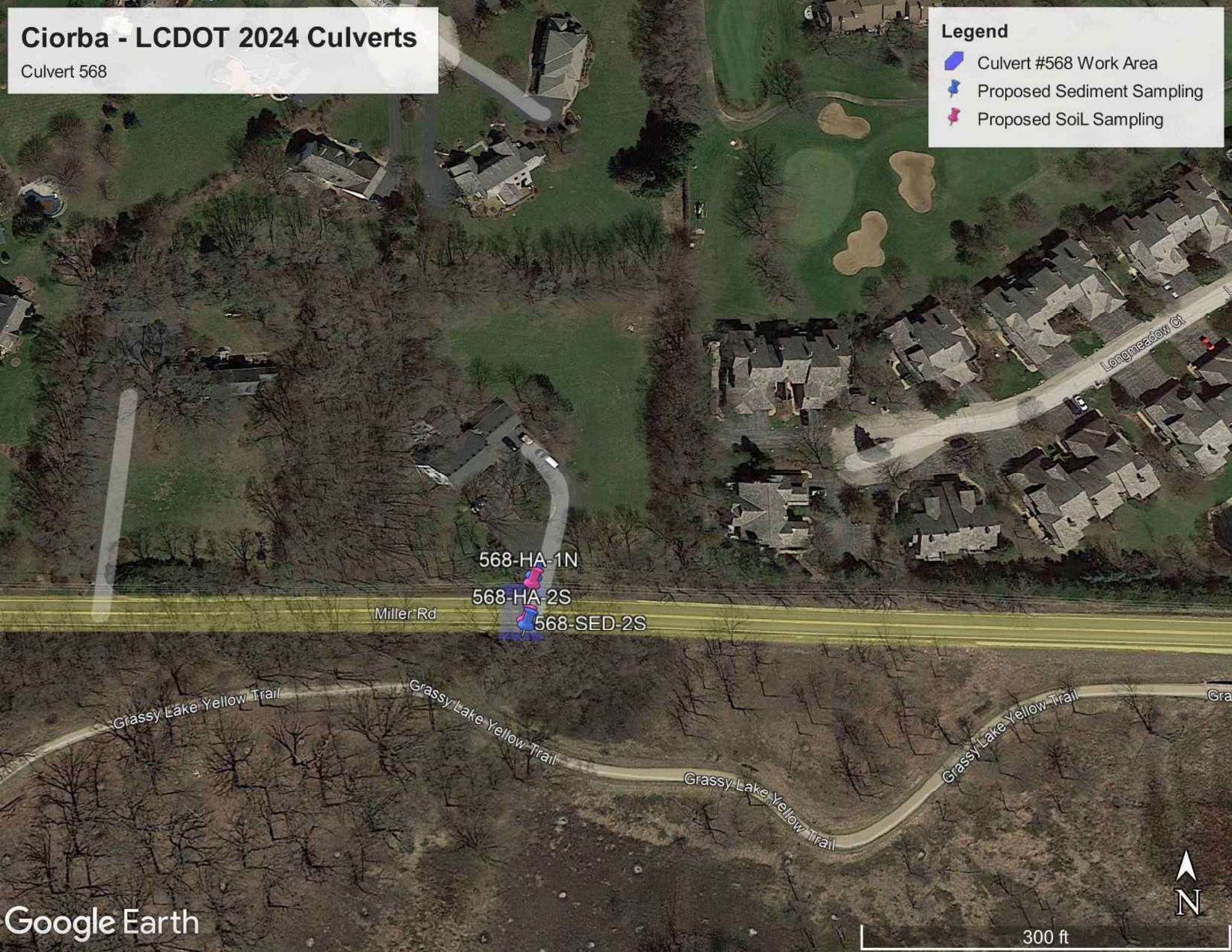
Huff & Huff, Inc.

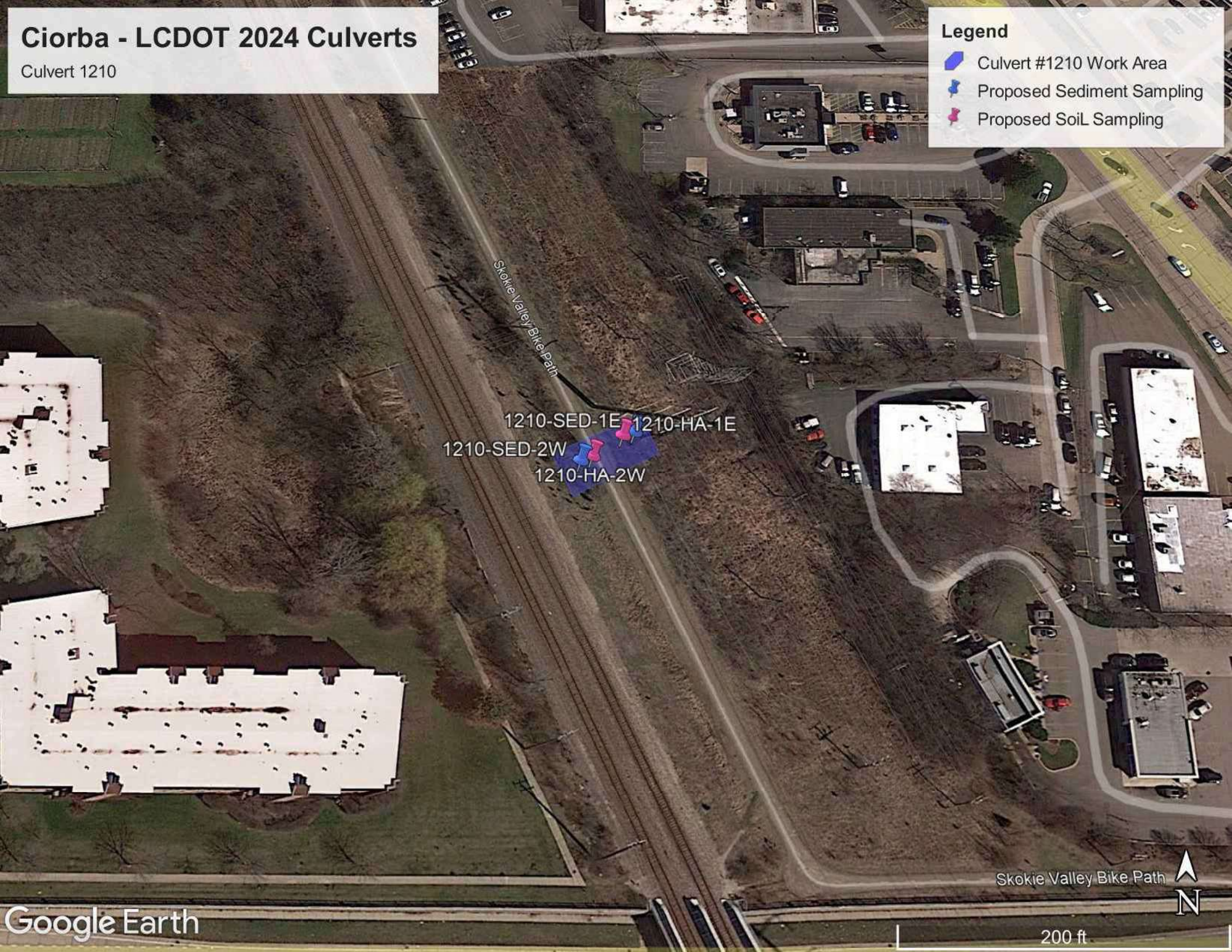
Jeremy J. Reynolds, P.G.
Associate Principal

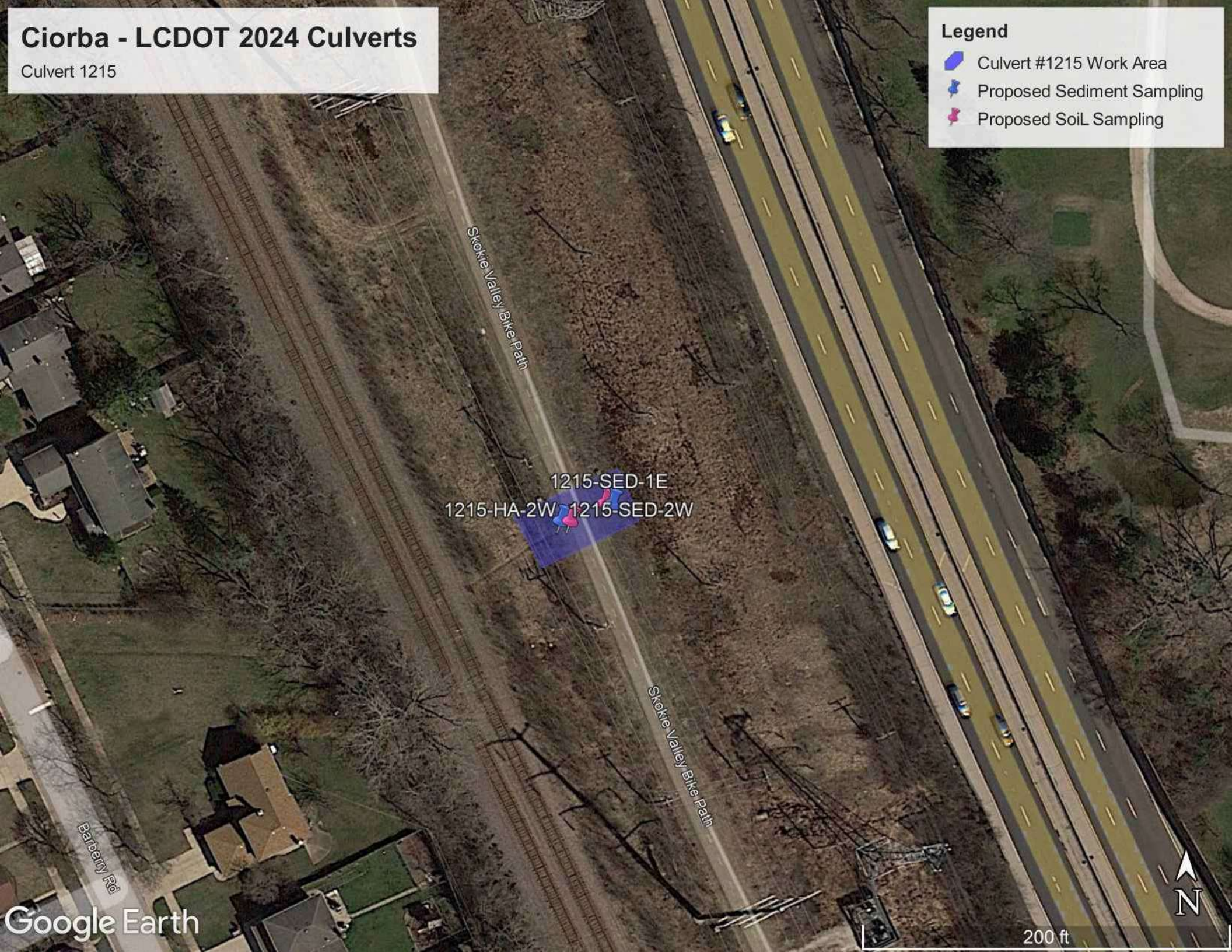
James Novak, PWS
Associate Principal

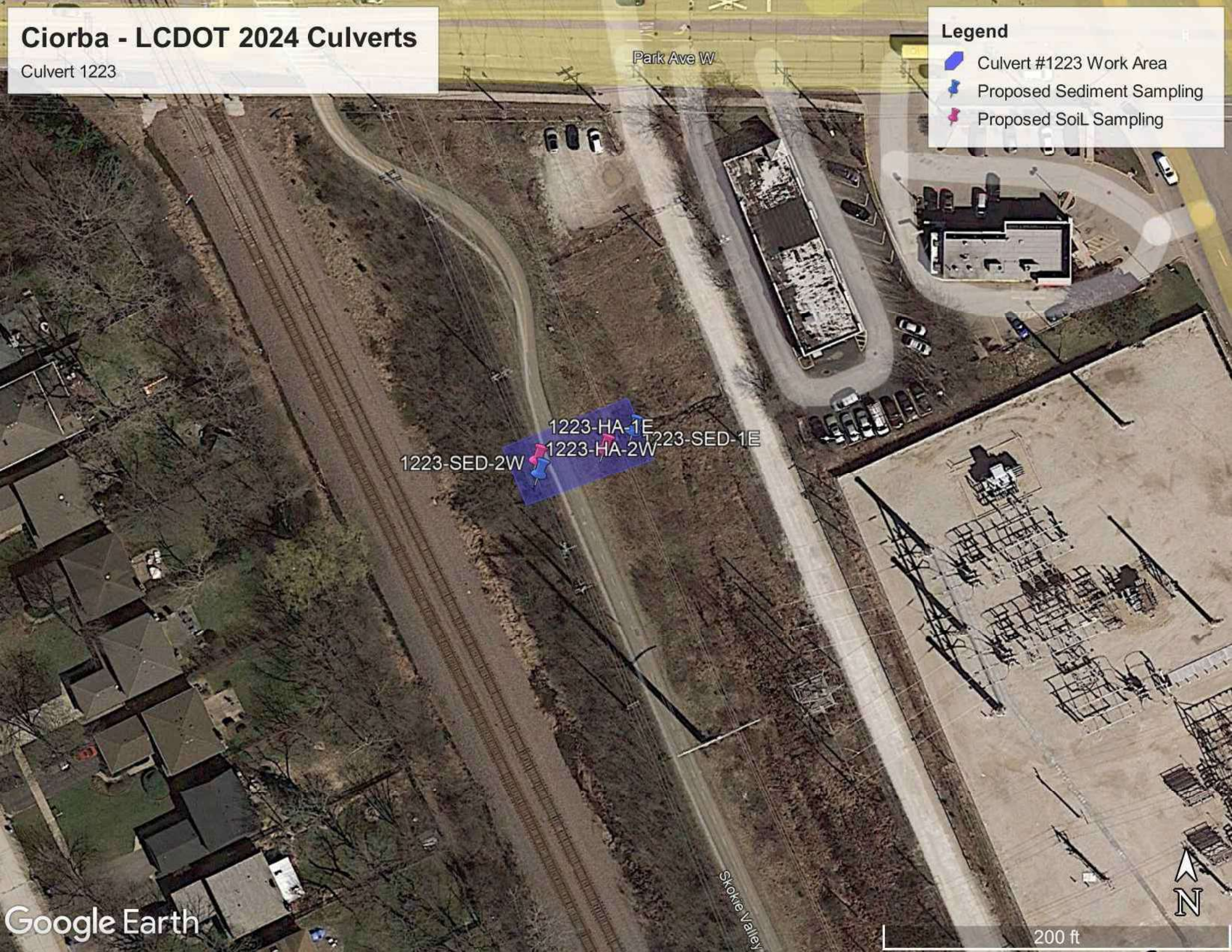
Attachments: Terms and Conditions


Ciorba - LCDOT 2024 Culverts
Culvert 364
Legend
Culvert #364 Work Area
Proposed Sediment Sampling
Proposed SoiL Sampling
N Gilmer Rd
364-HA-1E
364-SED-1-E
364-HA-2W
364-SED-2
Google Earth
N
100 ft

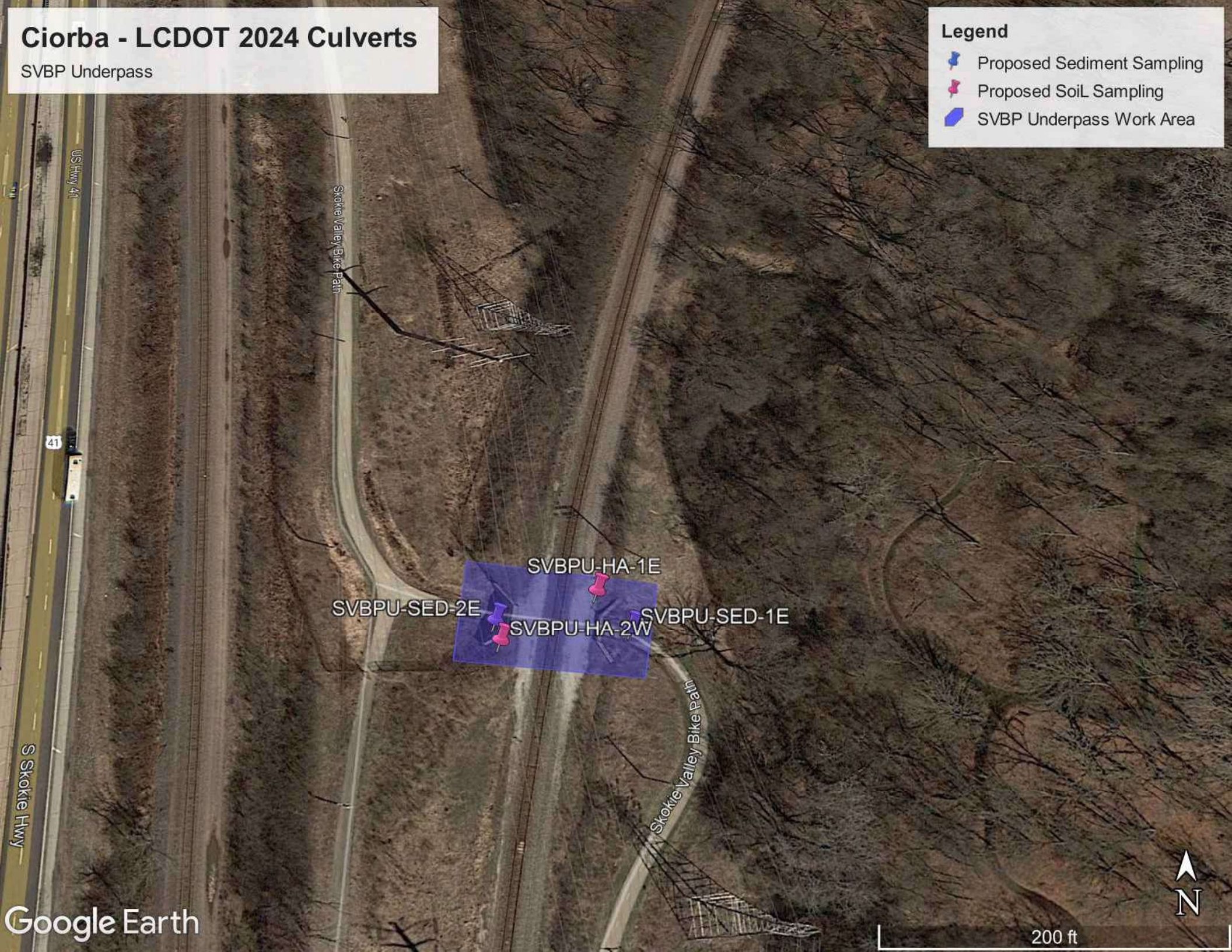

Ciorba - LCDOT 2024 Culverts
Culvert 568
Legend
Culvert #568 Work Area
Proposed Sediment Sampling
Proposed SoiL Sampling
568-HA-1N
568-HA-2S
568-SED-2S
Miller Rd
Longmeadow Ct
Grassy Lake Yellow Trail
Grassy Lake Yellow Trail
Grassy Lake Yellow Trail
Grassy Lake Yellow Trail
N
300 ft
Google Earth


Ciorba - LCDOT 2024 Culverts
Culvert 1210
Legend
Culvert #1210 Work Area
Proposed Sediment Sampling
Proposed SoiL Sampling
Skokie Valley Bike Path
1210-SED-1E
1210-HA-1E
1210-SED-2W
1210-HA-2W
Skokie Valley Bike Path
N
Google Earth
200 ft


Ciorba - LCDOT 2024 Culverts
Culvert 1215
Legend
Culvert #1215 Work Area
Proposed Sediment Sampling
Proposed SoiL Sampling
Skokie Valley Bike Path
1215-SED-1E
1215-HA-2W
1215-SED-2W
Skokie Valley Bike Path
Barberry Rd
Google Earth
N
200 ft


Ciorba - LCDOT 2024 Culverts
Culvert 1223
Legend
Culvert #1223 Work Area
Proposed Sediment Sampling
Proposed SoiL Sampling
Park Ave W
1223-HA-1E
1223-HA-2W
1223-SED-1E
1223-SED-2W
Skokie Valley
N
200 ft
Google Earth


Ciorba - LCDOT 2024 Culverts
Culvert 1241
Legend
Culvert #1241 Work Area
Proposed Sediment Sampling
Proposed SoiL Sampling
Skokie Valley Bike Path
Skokie Hwy
US Hwy 41
41
1241-HA-1E
1241-HA-2W
1241-SED-2W
N
Google Earth
300 ft


Ciorba - LCDOT 2024 Culverts
SVBP Underpass
Legend
Proposed Sediment Sampling
Proposed SoiL Sampling
SVBP Underpass Work Area
US Hwy 41
41
Skokie Valley Bike Path
SVBPU-HA-1E
SVBPU-SED-2E
SVBPU-SED-1E
SVBPU-HA-2W
Skokie Valley Bike Path
S Skokie Hwy
N
200 ft
Google Earth

ATTACHMENT A – COSTS

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD

Prime Consultant (Firm) Name	Prepared By	Date
Ciorba Group	JJR/LR	1/19/2023

Consultant / Subconsultant Name	Job Number
Huff & Huff, Inc., a subsidiary of GZA	

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	12	MONTHS	OVERHEAD RATE	190.00%
START DATE	2/15/2023		COMPLEXITY FACTOR	0
RAISE DATE	3/1/2023		% OF RAISE	2.00%
END DATE	2/14/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	2/15/2023	3/1/2023	0	0.00%
1	3/2/2023	3/1/2024	12	102.00%

The total escalation = 2.00%

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD

Consultant / Subconsultant Name	Job Number
Huff & Huff, Inc., a subsidiary of GZA	

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	**78.00**
ESCALATION FACTOR	**2.00%**

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Associate Principal III	$76.69	$78.00
Associate Principal II	$69.75	$71.15
Associate Principal I	$63.91	$65.19
Seniort Consultant II	$77.36	$78.00
Senior Consultant I	$43.81	$44.69
Senior Project Manager III	$66.11	$67.43
Senior Project Manager II	$53.81	$54.89
Senior Project Manager I	$50.82	$51.84
Senior Landscape Architect	$57.23	$58.37
Senior Planning PM	$53.97	$55.05
Senior Technical Specialist I	$50.61	$51.62
Senior Scientist PM II	$53.71	$54.78
Senior Technical Scientist	$51.13	$52.15
Scientist PM II	$48.38	$49.35
Scientist PM I	$42.00	$42.84
Assistant PM Scientist	$35.09	$35.79
Environmental Engineer PM I	$46.21	$47.13
Geotechnical Engineer PM I	$43.14	$44.00
Architect PM	$48.56	$49.53
Assistant PM Engineert I	$42.02	$42.86
Engineer II	$29.21	$29.79
Engineer I	$32.16	$32.80
Scientist E1	$29.75	$30.35
Technical Graphics Technician	$25.15	$25.65
Administrative Manager	$46.64	$47.57
Senior Administrative Assistant	$32.81	$33.47
Lead Word Processor	$40.46	$41.27

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD

Consultant / Subconsultant Name	Job Number
Huff & Huff, Inc., a subsidiary of GZA	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	**0.00**	**0.00**

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

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD

Consultant / Subconsultant Name	Job Number
Huff & Huff, Inc., a subsidiary of GZA	

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	700	$0.66	$458.50
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	30	$1.50	$45.00
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
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)	28	$610.00	$17,080.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Field Kit - Expendible Materials	Daily Rate	2	$30.00	$60.00
Photoionization Detector (PID) / GPS Unit	Daily Rate	3	$100.00	$300.00
Database Package	Each	7	$175.00	$1,225.00
VOC$90/SVOC@$155/Metals @$125/SPLP/TCLP	Each @ $120 = $610/Sample			$0.00
			TOTAL DIRECT COSTS:	**$19,168.50**

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	TBD

Consultant / Subconsultant Name	Job Number
Huff & Huff, Inc., a subsidiary of GZA	

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: CCDD Assessment & LPC Forms	18,889	100	3,363	6,389	1,110	0	10,862	22.38%
Task 2: Wetland Deineation & Report	140	92	3,061	5,817	1,010	0	9,888	20.37%
Task 3: Bat Bridge Assessment	140	36	1,403	2,666	463	0	4,532	9.34%
Task 4: Project Administration	0	7	397	755	131	0	1,283	2.64%
Task 5: QAQC	0	14	866	1,645	286	0	2,797	5.76%
Subconsultant DL							$0.00	
Direct Costs Total ===>	$19,168.50						**$19,168.50**	39.50%
TOTALS		249	9,090	17,272	3,000	-	48,531	60.50%

26,362

Local Public Agency
Lake County Division of Transportation

County
Lake

Section Number
TBD

Consultant / Subconsultant Name
Huff & Huff, Inc., a subsidiary of GZA

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 1: CCDD Assessment & LPC Forms			Task 2: Wetland Deineation & Report			Task 3: Bat Bridge Assessment			Task 4: Project Administration			Task 5: QAQC		
		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	78.00	0.0																	
Associate Principal II	71.15	6.0	2.41%	1.71										2	28.57%	20.33	4	28.57%	20.33
Associate Principal I	65.19	7.0	2.81%	1.83										1	14.29%	9.31	6	42.86%	27.94
Seniort Consultant II	78.00	0.0																	
Senior Consultant I	44.69	0.0																	
Senior Project Manager III	67.43	0.0																	
Senior Project Manager II	54.89	0.0																	
Senior Project Manager I	51.84	0.0																	
Senior Landscape Architect	58.37	0.0																	
Senior Planning PM	55.05	0.0																	
Senior Technical Specialist I	51.62	0.0																	
Senior Scientist PM II	54.78	4.0	1.61%	0.88				2	2.17%	1.19	2	5.56%	3.04						
Senior Technical Scientist	52.15	30.0	12.05%	6.28				14	15.22%	7.94	12	33.33%	17.38	2	28.57%	14.90	2	14.29%	7.45
Scientist PM II	49.35	0.0																	
Scientist PM I	42.84	14.0	5.62%	2.41	10	10.00%	4.28							2	28.57%	12.24	2	14.29%	6.12
Assistant PM Scientist	35.79	10.0	4.02%	1.44	10	10.00%	3.58												
Environmental Engineer PM I	47.13	0.0																	
Geotechnical Engineer PM I	44.00	0.0																	
Architect PM	49.53	0.0																	
Assistant PM Engineert I	42.86	5.0	2.01%	0.86	5	5.00%	2.14												
Engineer II	29.79	0.0																	
Engineer I	32.80	58.0	23.29%	7.64	58	58.00%	19.03												
Scientist E1	30.35	80.0	32.13%	9.75				58	63.04%	19.13	22	61.11%	18.54						
Technical Graphics Technician	25.65	32.0	12.85%	3.30	14	14.00%	3.59	18	19.57%	5.02									
Administrative Manager	47.57	0.0																	
Senior Administrative Assistant	33.47	3.0	1.20%	0.40	3	3.00%	1.00												
Lead Word Processor	41.27	0.0																	
TOTALS		249.0	100%	$36.51	100.0	100.00%	$33.63	92.0	100%	$33.28	36.0	100%	$38.97	7.0	100%	$56.78	14.0	100%	$61.84

HUFF & HUFF, INC.
SUMMARY OF DIRECT COSTS
Project: Ciorba LCDOT 2024 Culverts

										DIRECT
Task 1 - CCDD										
Trips	100	miles	x	3	x	$	0.655	=	$	196.50
Tolls				18	x	$	1.50	=	$	27.00
VOC+5035	1	ea	x	28	x	$	90.00	=	$	2,520.00
SVOC	1	ea	x	28	x	$	155.00	=	$	4,340.00
Total metals (22)	1	ea	x	28	x	$	125.00	=	$	3,500.00
TCLP Metals	1	ea	x	28	x	$	120.00	=	$	3,360.00
SPLP metals	1	ea	x	28	x	$	120.00	=	$	3,360.00
pH	1	ea	x	28	x	$	-	=	$	-
Cost/IDOT Sample						*$*	*610.00*		$	-
Field Kit	1	day	x	2	x	$	30.00	=	$	60.00
PID	1	day	x	2	x	$	100.00	=	$	200.00
GPS	1	day	x	1	x	$	100.00	=	$	100.00
Database Package				7	x	$	175.00	=	$	1,225.00
						Task Total			**$**	**18,888.50**
Task 2 - Wetland Delineation & Report										
Trips	100	miles	x	1	x	$	0.66	=	$	65.50
Trips	100	miles	x	1	x	$	0.66	=	$	65.50
Tolls				6	x	$	1.50	=	$	9.00
				0	x	$	-	=	$	-
						Task Total			**$**	**140.00**
Task 3 - BBA Surveys										
Trips	100	miles	x	1	x	$	0.66	=	$	65.50
Trips	100	miles	x	1	x	$	0.66	=	$	65.50
Tolls				6	x	$	1.50	=	$	9.00
				0	x	$	-	=	$	-
						Task Total			**$**	**140.00**
Task 4 - Project Admin										
									$	-
					x	$	-	=	$	-
						Task Total			**$**	**-**
Task 5 - QAQC										
				0	x	$	-	=	$	-
						Task Total			**$**	**-**
						GRAND TOTAL			**$**	**19,168.50**

F:\Proposal-FY2023\Ciorba\LCDOT Culverts\[81.P002025.23 Ciorba LCDOT 2024 Culverts Direct Costs.xls]Direct Costs

HUFF & HUFF, INC.
SUMMARY OF SERVICES BY OTHERS
Project: Ciorba LCDOT 2024 Culverts

		OUTSIDE
Task 1 - CCDD		
Task Total	**$**	**-**
GRAND TOTAL	**$**	**-**

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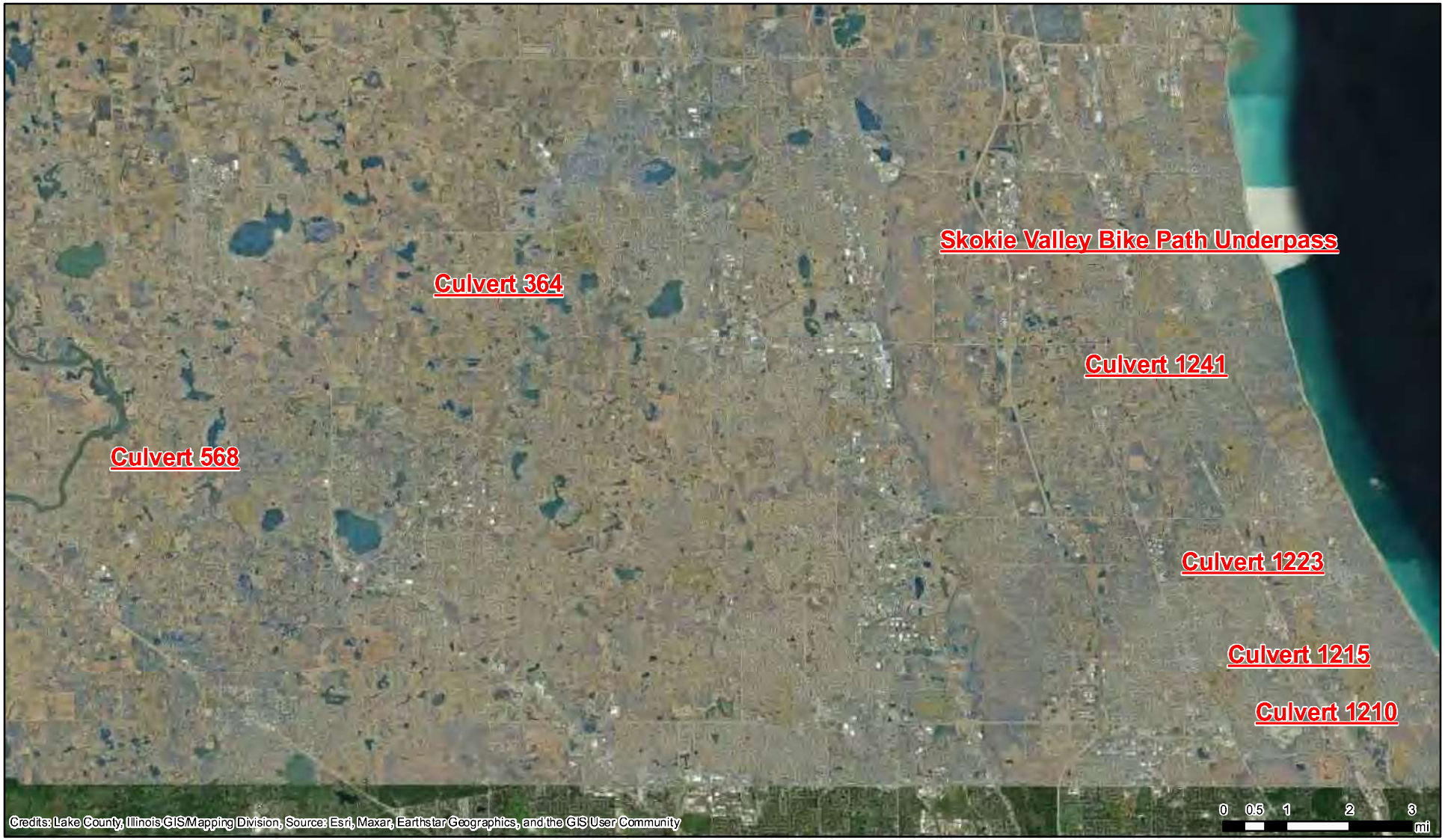
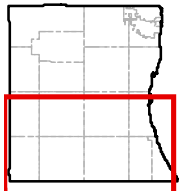
ATTACHMENT B
LAKE COUNTY PROVIDED PROJECT INFORMATION

Location Map





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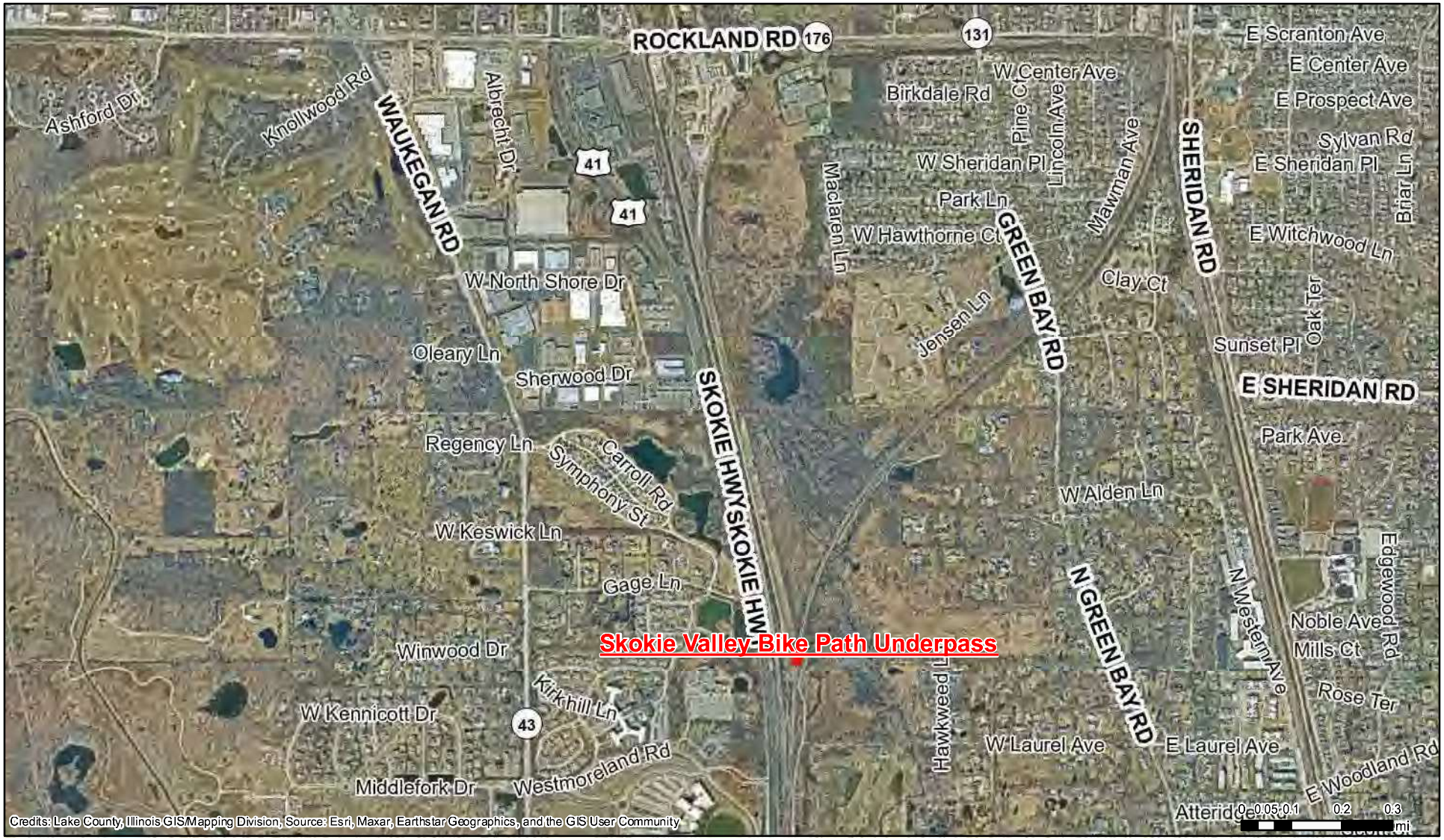
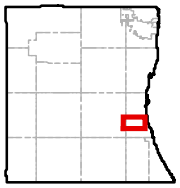
LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Underpass (SVBP) Location Map



Bike Path Underpass to cross the Union Pacific Railway
13' x 12' Box Culvert with headwalls used for Underpass
Drainage issue with standing and flowing water on path through underpass



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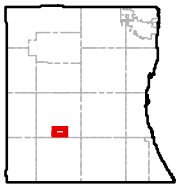
LakeCounty
Division of Transportation

Culvert 364 (Gilmer) Location Map

Culvert 364 - Gilmer Road (North of Chevy Chase Road)
30" Concrete Pipe - Installed 1993
Flared End Section to No End Section
Unable to rate due to both end sections being under water (2022)
*Consider Upsizing and Raising Culvert
*Verify Culvert is Within R.O.W.



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LCDOT GIS
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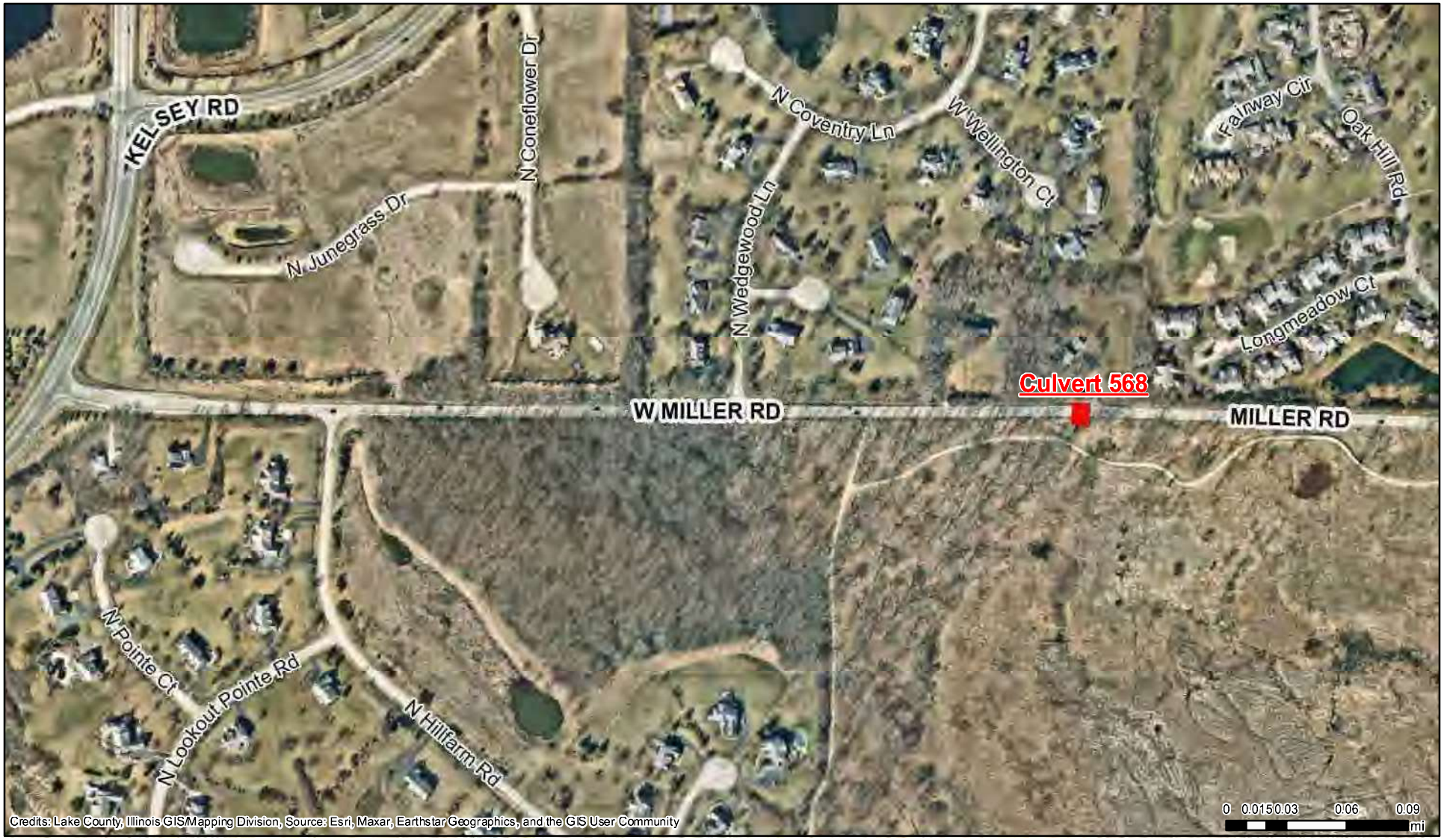
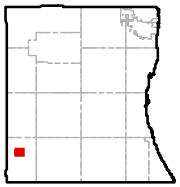
LakeCounty
Division of Transportation

Culvert 568 (Miller) Location Map



Culvert 568 - Miller Road (East of Kelsey Road)
15" Corrugated Metal Pipe
Catch Basin with Type 8 Frame to Unknown End
Rated 4 (Severe) Bottom is heavily rusted with visible holes (2022)
*Adjacent tree will need to be removed to replace culvert
*Consider culvert lining if possible



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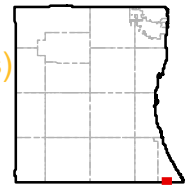
LakeCounty
Division of Transportation

Culvert 1210 (SVBP) Location Map

Culvert 1210 Skokie Valley Bike Path (North of Lake Cook Road)
Double 42" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
*Consider raising top of headwall to allow for support of the edge of the bike path
*Fence will need to be removed and replaced



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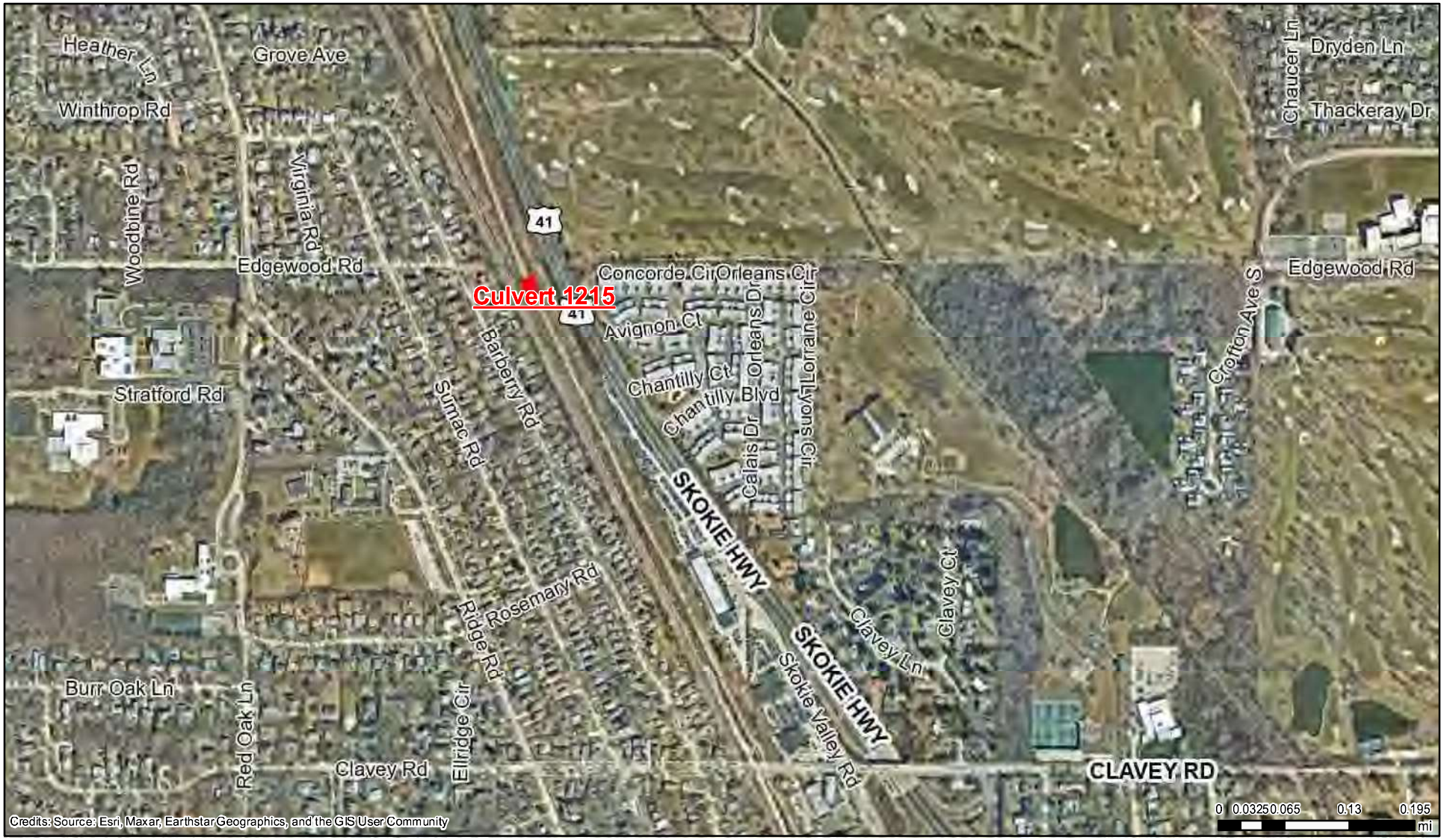
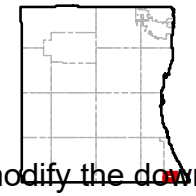
Division of Transportation

Culvert 1215 (SVBP) Location Map



Culvert 1215 Skokie Valley Bike Path (North of Clavey Road)
48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
*Down Guys for a wood ComEd Pole (#4866) near the headwall - May need to modify the down guys or brace the pole during construction



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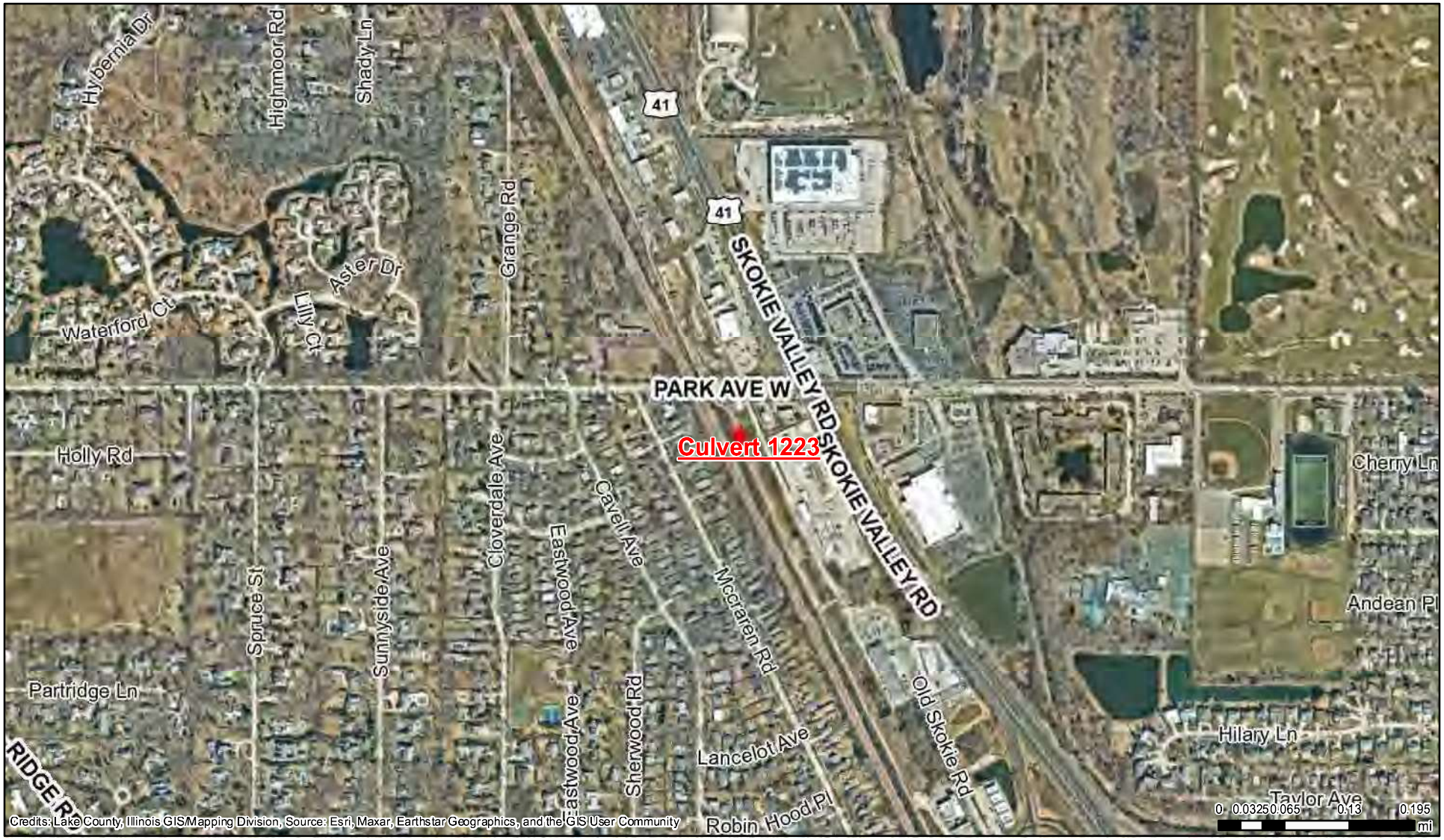
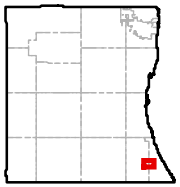
LCDOT GIS
8/10/2022

Culvert 1223 (SVBP) Location Map



Culvert 1223 Skokie Valley Bike Path (South of West Park Ave)
48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
There are sink holes east of the path (in vegetated area)



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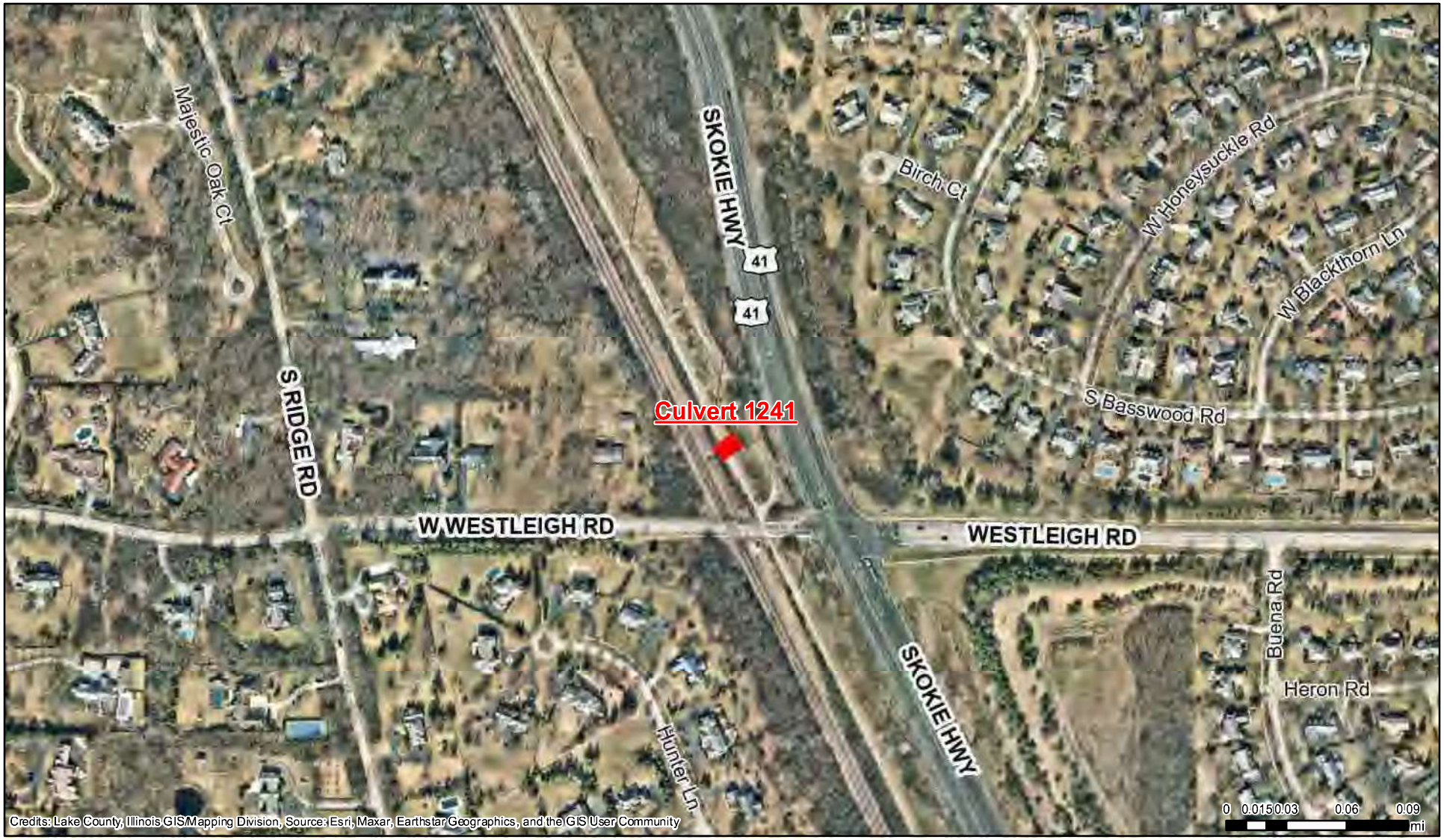
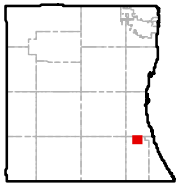
LakeCounty
Division of Transportation

Culvert 1241 (SVBP) Location Map



Culvert 1241 Skokie Valley Bike Path (North of Westleigh Road)
36" Concrete Pipe - Installed 1994
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
There are sink holes east of the path (in vegetated area)



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LakeCounty
Division of Transportation

Project Description

This project consists of drainage improvements at the Skokie Valley Bike Path and the Union Pacific Railroad underpass and the replacement of the following culverts:

- Culvert 364 (Gilmer Rd- 250 feet north of Chevy Chase Rd)
- Culvert 568 (Miller Rd- 900 feet east of Wedgewood Ln)
- Culvert 1210 (SVBP between Lake Cook Rd & Clavey Rd)
- Culvert 1215 (SVBP between Clavey Rd & Old Deerfield Rd)
- Culvert 1223 (SVBP between Old Deerfield Rd & Park Ave W)
- Culvert 1241 (SVBP between Westleigh Rd & Deerpath Rd)

Location maps are attached with inspection details noted.

Municipal and Political Boundaries

- Culvert 364 is located in Hawthorn Woods and in County Board District 10, Jessica Vealitzek (2012) and County Board District 2 (2022).
- Culvert 568 is located in Lake Barrington and in County Board 17, Michael Danforth (2012 & 2022)
- Culverts 1210, 1215, and 1223 are located in Highland Park and County Board District 11, Paul Frank (2012) and County Board District 12 (2022).
- Culvert 1241 and the UPRR underpass are located in Lake Forest and in County Board district 12, Paras Parekh (2012 & 2022).

Existing Conditions/ Drainage

- UPRR Underpass
    - 12H' x13W' box culvert tunnel with ~2' PCC pavement in bottom. Form lined wingwalls are present. Water collects in the north edge of the box culvert and on both sides of the tunnel.
    - On the east side, there is a flared end section that drains to the north. The flared end section is about 0.3' lower than the NE corner of the path through the box but the water does not make it there due to grading.
    - On the west side, there is a flared end section that drains to the northeast. The flared end is about 0.8' lower than the NW corner of the path through the box but there is about 0.8' of water that is sitting within the culvert and the surrounding area.
    - See attached plan sheet for additional information
- Culvert 364 is a 30" RCP that was installed in 1993. There is a FES on the west end and no end section on the east end. This culvert appears to be too low and not sized appropriately for the amount of flow. This culvert has not been able to be inspected due to being underwater.
- Culvert 568 is a 15" CMP. Install date is unknown. There is a catch basin with a type 8 frame on the north end and no end section on the south end. This culvert is rated a 4 (Severe). There is a large tree near the south end of the culvert (*Siberian Elm, approx. 30" DBH, it has*

some dead branches throughout the crown and there is a wound with some decay at the base. The tree has a heavy lean toward the south and is leaning into some of the other forest preserve trees). If this culvert is replaced, the tree will likely need to be removed. This culvert is in the Fox River drainage basin, Flint Creek sub-basin.

  - Culvert 1340 is 850 feet west of culvert 568. This culvert is a 12″ CMP and has not been rated due to being underwater but appears to be in poor condition. If this culvert has not been replaced prior, it should be replaced as part of this project or by LCDOT Maintenance while the road is closed, and access would only have to be provided for one driveway.

- Culvert 1210 is a double 42″ RCP installed around 1980. There is a concrete headwall on the west end and no end section on the east end. This culvert is rated a 3 (Poor).
- Culvert 1215 is 48″ RCP installed around 1980. There is a concrete headwall on the west end and no end section on the east end. This culvert is rated a 3 (Poor).
- Culvert 1223 is a 48″ RCP installed around 1980. There is a concrete headwall on the west end and no end section on the east end. This culvert is rated a 3 (Poor).
- Culvert 1241 is a 36″ RCP installed in 1994. There is a concrete headwall on the west end and no end section on the east end. This culvert is rated a 3 (Poor).

Wetlands and Flood Plains

Culvert 364 is in a floodplain and floodway and has wetland areas on both sides. Wetland and floodplain impacts are expected for this culvert.

Culverts 1210, 1215, 1241, and the UPRR underpass are in wetland areas. Wetland impacts are expected.

Adjacent Projects

- Skokie Valley Bike Path over Lake Cook Rd (Cook County Project) (B-01150)

Functional Classification

Gilmer Rd and Miller Rd are classified as Minor Arterials.

Traffic Data

The ADT information is below:

Culvert Replacements 2024						
Location	**ADT**	**Year**	**PV %**	**SU %**	**MU%**	**Speed Limit**
Gilmer Rd (Culvert 364)	12,600	2019	95.92	1.62	2.46	45 MPH
Miller Rd (Culvert 568)	3,200	2018	97.1	1.33	1.58	35 MPH

Detours will be required for each of the locations. Proposed detour routes:

- Culvert 364: Hawley St- IL 60- Midlothian Rd
- Culvert 568: Kelsey Rd- IL 59
- Culvert 1210: Sidewalks along Lake Cook Rd- Skokie Valley Rd- Clavey Rd
- Culvert 1215: Sidewalks along Clavey Rd- Ridge Rd- Old Deerfield Rd (Use map from Culvert 1212 replacement)
- Culvert 1223: Sidewalks along Old Deerfield Rd- Highland Park Bike Path- Fredrickson Pl- Beverly Pl- Park Ave West (Use map from Culvert 1221 replacement)
- Culvert 1241: Sidewalks along Westleigh Rd- IL 43- Deerpath Rd
- UPRR Underpass: Laurel Ave- Sidewalk along Green Bay Rd- North Shore Bike Path

Aesthetics

None

Agreements

Possible ComEd & UPRR

Proposed Project

- UPRR Underpass
  - Propose raising bottom of bike path tunnel 6″ with either PCC or HMA overlay. Tying into existing will require path replacement on either side of the tunnel.
  - Install 6″ trench drain along north side of tunnel out letting to a headwall on east side.
  - Regrade east and west sides to get water to drain to existing flared end sections. Note that there are underdrain headwalls at all four corners to drain the wing walls that will need to be left exposed.
  - Coordinate with ComEd for emergency vehicle access between bike path tunnel and Deerpath Rd either with existing UPRR crossing access south of tunnel or new emergency access off Deerpath Rd.
  - Alternatives
    - Concrete swale on the northeast side to drain to the existing culvert
    - Rain gardens to allow the water in the area to dissipate naturally
- Culvert 364 (Gilmer Rd- 250 feet north of Chevy Chase Rd)
  - Replace culvert. Recommend upsizing and raising inverts to flowline. Easements may be required.
  - Install 12″ HMA patch (10″ N70 binder, 2″ N70 surface)
  - Use excess spoils to create smother slopes from the edge of the road – If allowed due to permitting
- Culvert 568 (Miller Rd- 900 feet east of Wedgewood Ln)

  - Option 1- Remove and Replace
    - Remove/replace culvert with RCP and flared end section on south end and replace/ adjust catch basin on north end to bring to grade.
    - Large tree will need to be removed next to south end of culvert in order to replace
    - Guardrail or modifications to the embankment may needed due to steep slopes
    - Install 8″ HMA patch (6.5″ N70 binder, 1.5″ N70 surface)
  - Option 2- Cured-in-place pipe liner
    - Look into the possibility of lining existing culvert in lieu of replacement
    - Catch basin could still be adjusted to grade
  - Culvert 1340 should be replaced during road closure under the contract or by LCDOT maintenance
- Culvert 1210 (SVBP between Lake Cook Rd & Clavey Rd)
  - Replace in kind per ComEd requirements.
  - Double 42″ RCP
  - Headwall on west side
  - Install FES on east side
  - There is a fence on the west side that will need to be removed/ replaced. Consider installing ornamental fence.
  - Consider raising the top of the headwall on the west side to stabilize the slope adjacent to the bike path.
  - Install 4.5″ HMA patch (3″ binder, 1.5″ surface)
- Culvert 1215 (SVBP between Clavey Rd & Old Deerfield Rd)
  - Replace in kind per ComEd requirements.
  - 48″ RCP
  - Headwall on west side
  - Install FES on east side
  - ComEd wood pole down guys above existing culvert. Coordinate with ComEd to relocate down guy or to stabilize pole during construction.
  - Install 4.5″ HMA patch (3″ binder, 1.5″ surface)
- Culvert 1223 (SVBP between Old Deerfield Rd & Park Ave W)
  - Replace in kind per ComEd requirements.
  - 48″ RCP
  - Headwall on west side
  - Install FES on east side
  - Install 4.5″ HMA patch (3″ binder, 1.5″ surface)
- Culvert 1241 (SVBP between Westleigh Rd & Deerpath Rd)
  - Replace in kind per ComEd requirements.
  - 36″ RCP
  - Headwall on west side
  - Install FES on east side
  - Install 4.5″ HMA patch (3″ binder, 1.5″ surface)

A = Northwest Corner of Box Culvert
Elev. = 662.88'

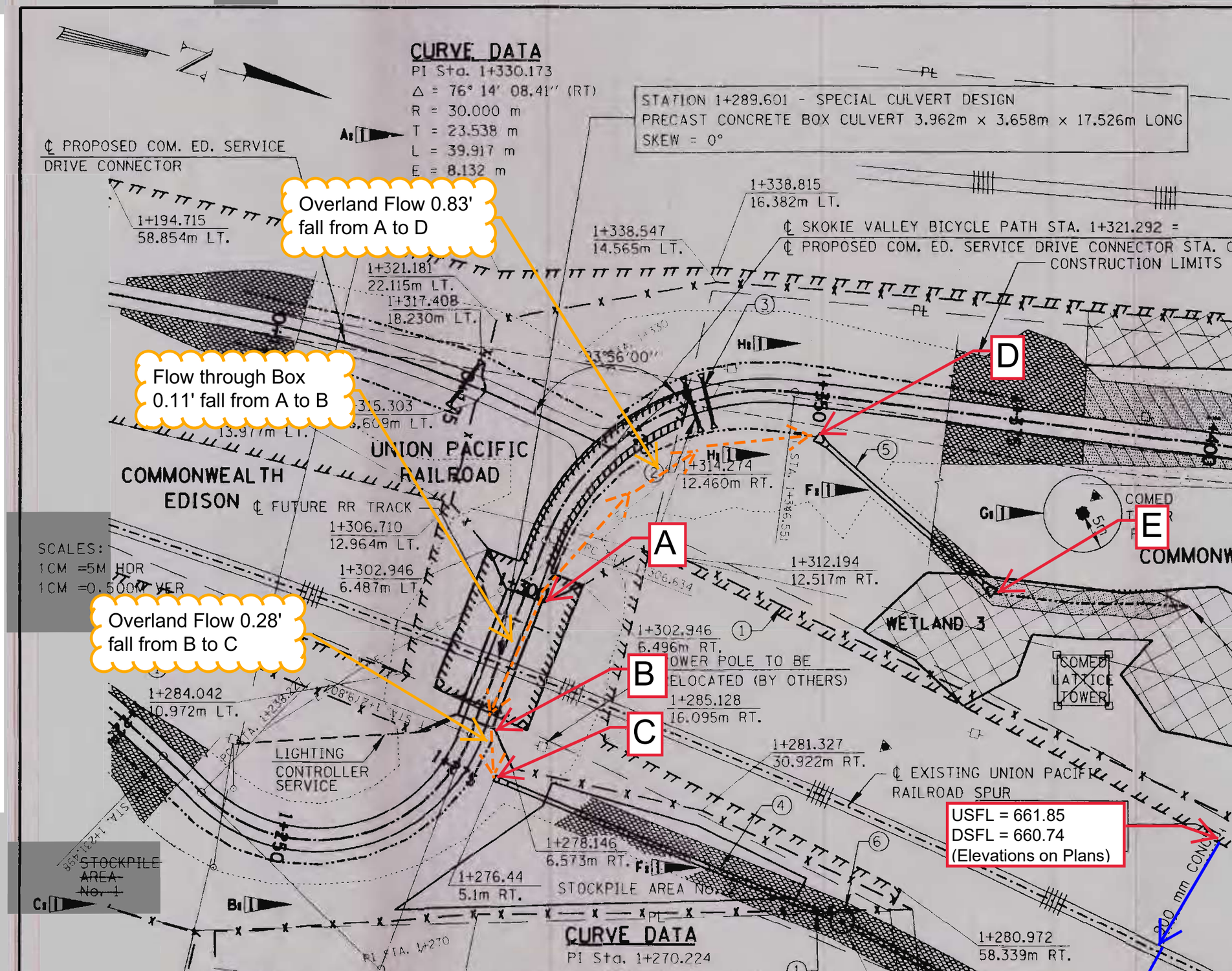
B = Northeast Corner of Box Culvert
Elev. = 662.77'

C = South End of FES on Northeast Side
Elev. = 662.49'

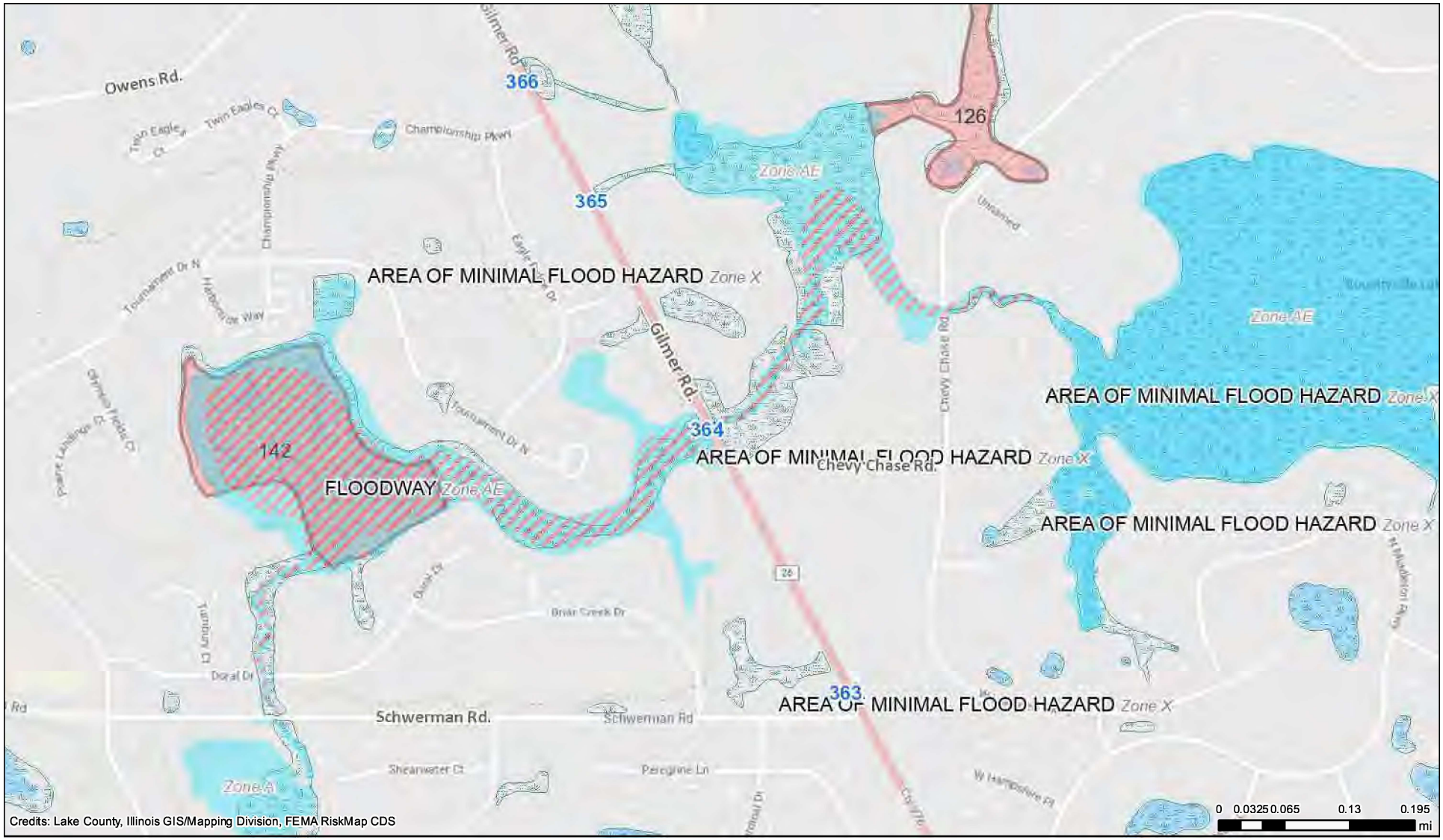
D = Southwest FES of Culvert Through Berm
Elev. = 662.05'

E = Northeast FES of Culvert Through Berm
Elev. = 661.85'

F = As-Built - North End of Culvert on East Side
Elev. = 661.95'



Gilmer Culvert 364 Flood & Wetland



Culverts

- Culvert
- Culvert Part of Storm Sewer System
- Bike Tunnel

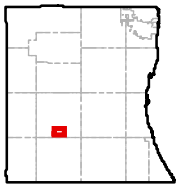
LCDOT Bike Paths

- Paved
- Unpaved
- On Road Bike Lane

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- Area of Minimal Flood Hazard

- ADvanced IDentification Wetlands
- Lake County Wetland Inventory



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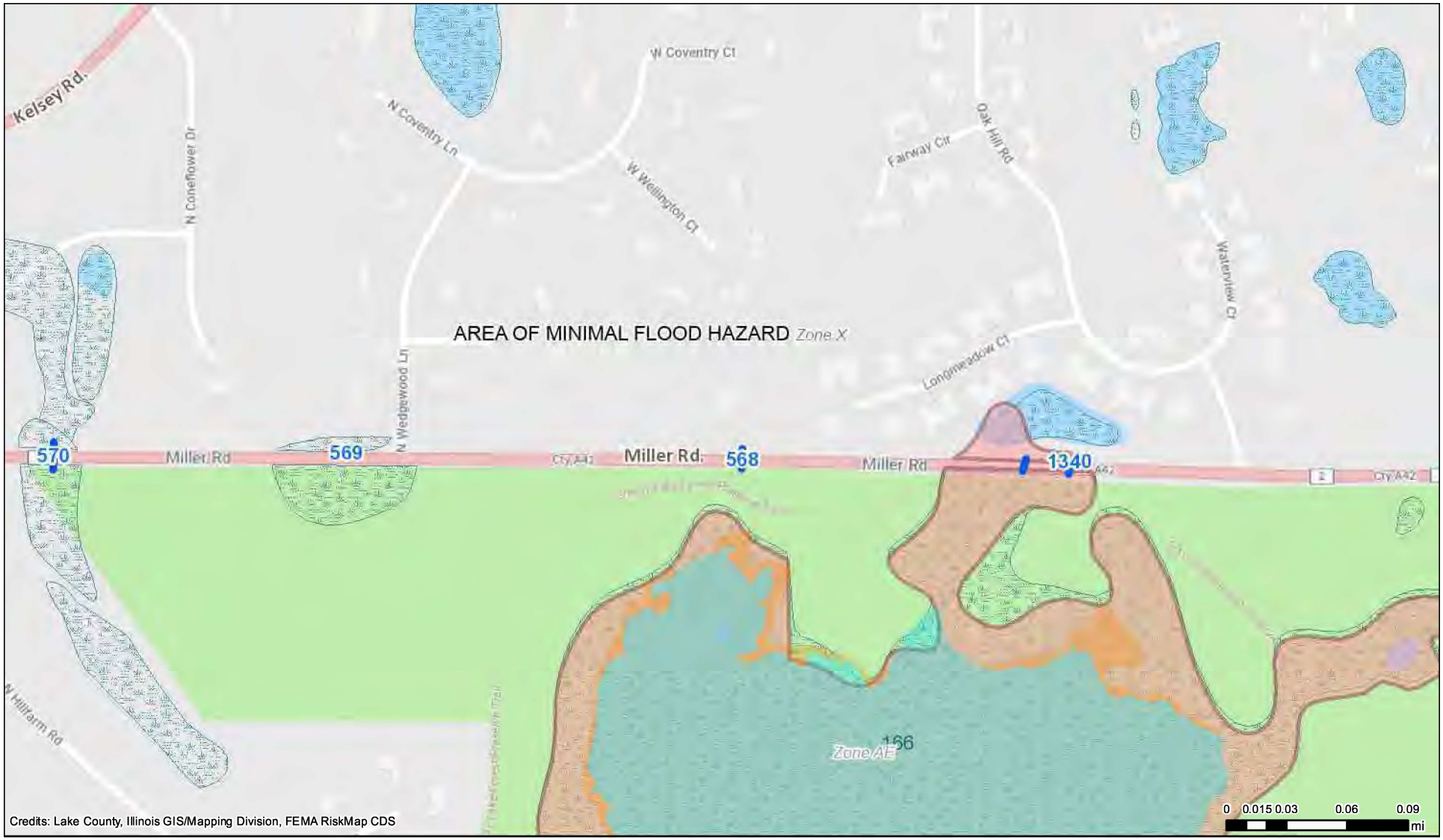
LCDOT GIS
8/16/2022

LakeCounty
Division of Transportation

Miller Culvert 568 Flood & Wetland



Culverts

- Culvert
- Culvert Part of Storm Sewer System
- Bike Tunnel

LCDOT Bike Paths

- Paved
- Unpaved
- On Road Bike Lane

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- Area of Minimal Flood Hazard

- ADvanced IDentification Wetlands
- Lake County Wetland Inventory

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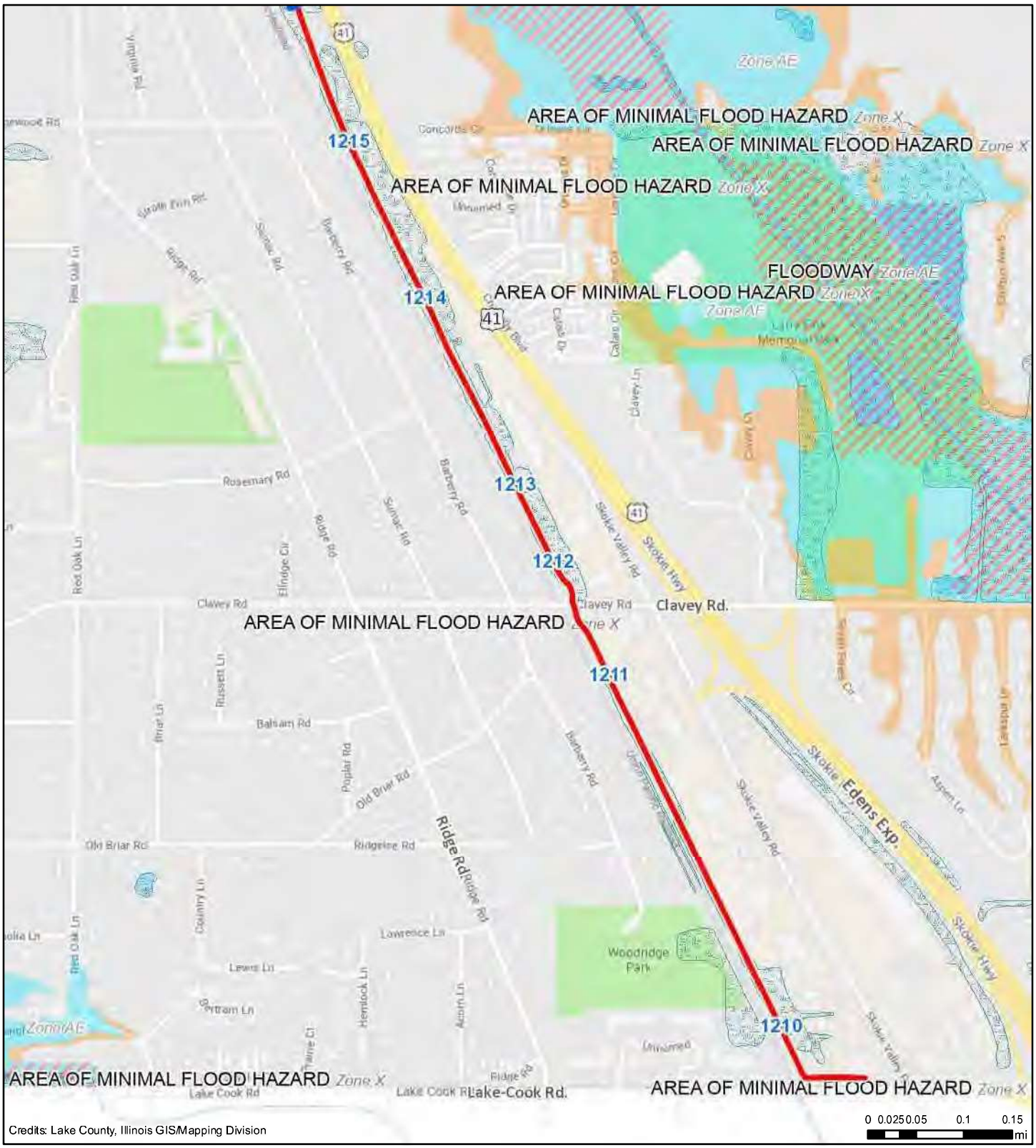
LCDOT GIS
8/16/2022

LakeCounty
Division of Transportation

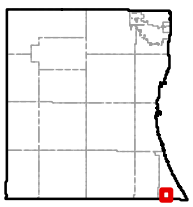
SVBP Culvert 1210 & 1215 Flood & Wetland



Culverts
- Culvert
- Culvert Part of Storm Sewer System
- Bike Tunnel

LCDOT Bike Paths
- Paved
- Unpaved
- On Road Bike Lane

Flood Hazard Zones
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- Area of Minimal Flood Hazard



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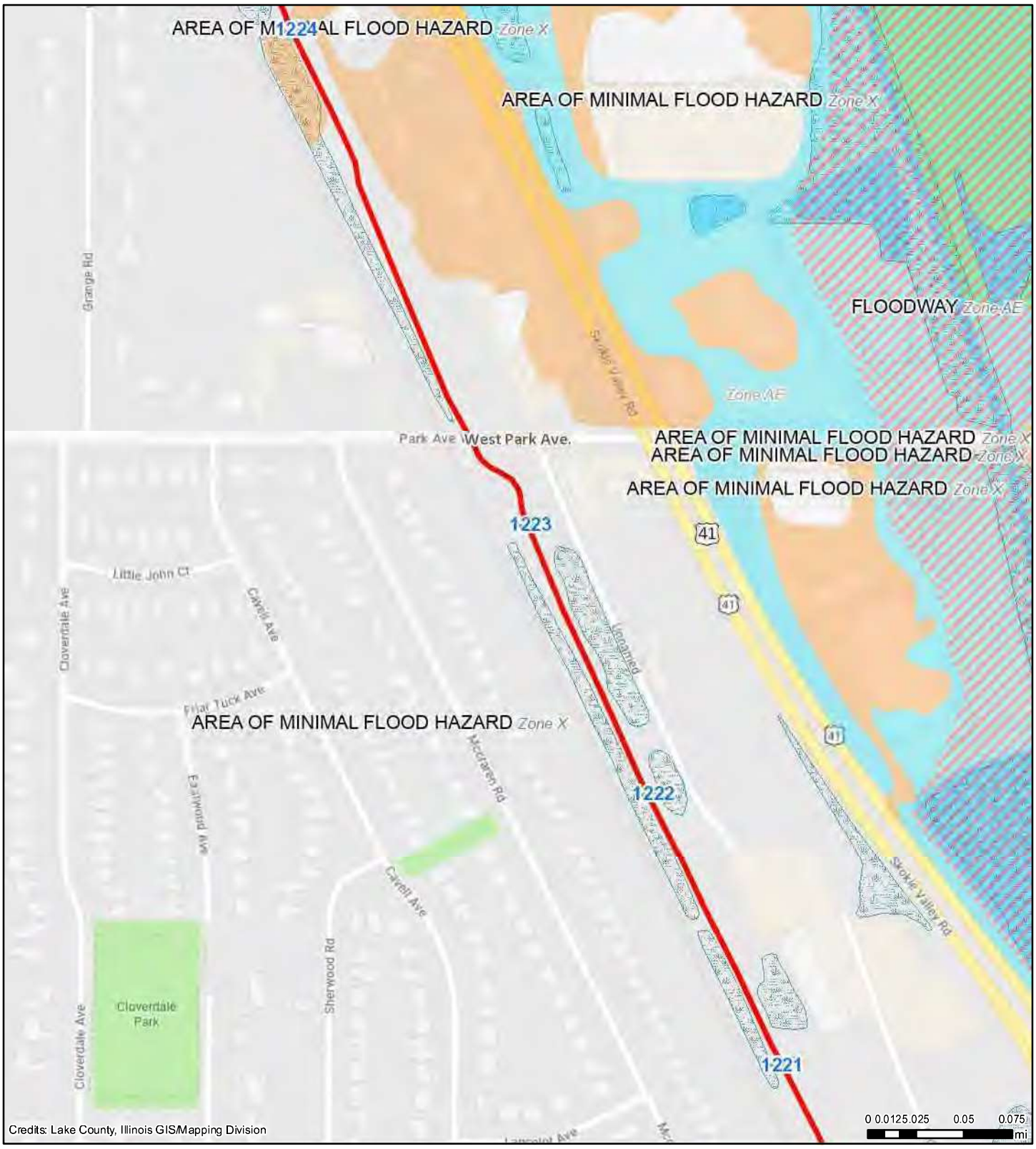
LCDOT GIS
8/16/2022

LakeCounty Division of Transportation

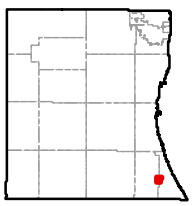
SVBP Culvert 1223 Flood & Wetland



Culverts
- Culvert
- Culvert Part of Storm Sewer System
- Bike Tunnel

LCDOT Bike Paths
- Paved
- Unpaved
- On Road Bike Lane

Flood Hazard Zones
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- Area of Minimal Flood Hazard



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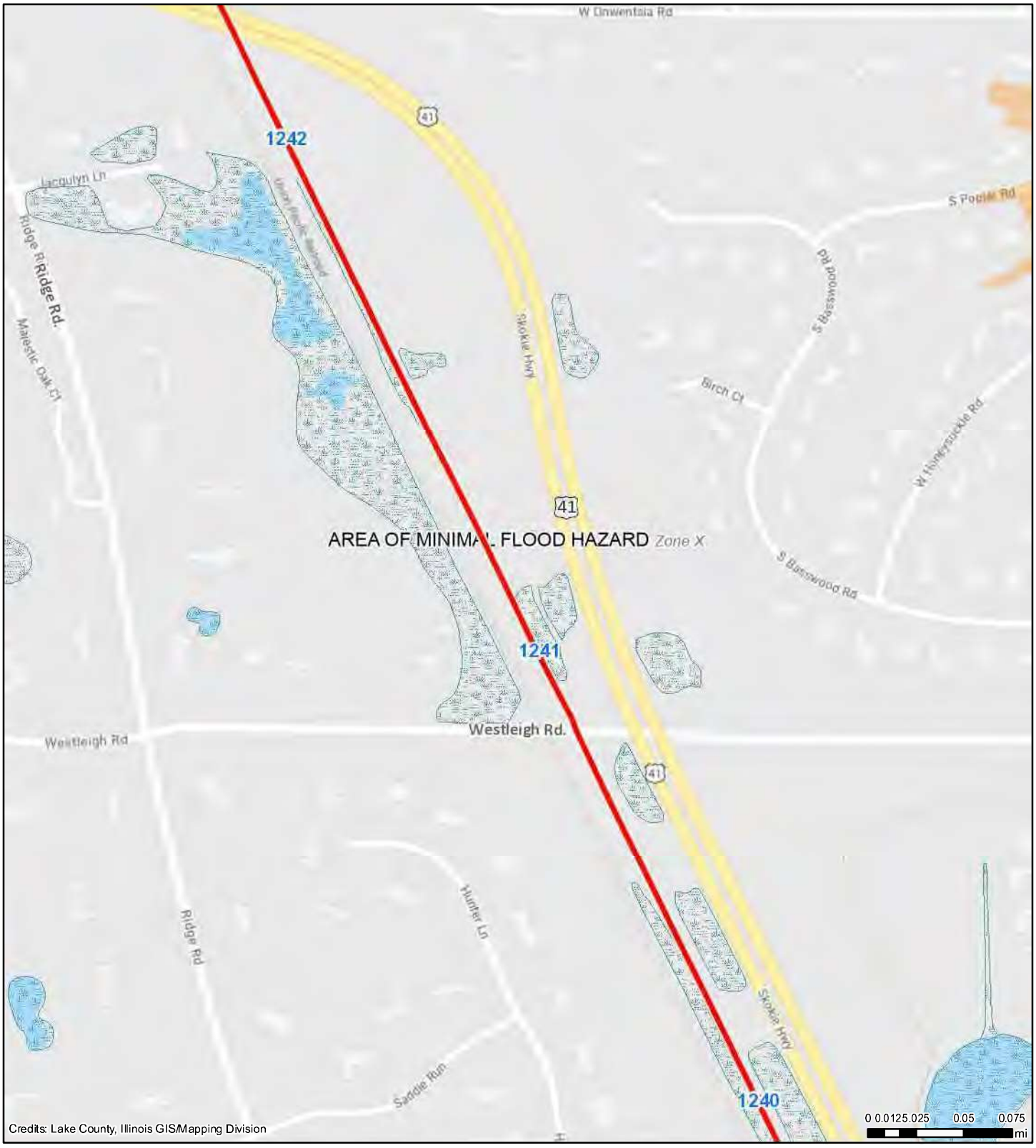
LakeCounty
Division of Transportation

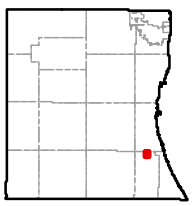
SVBP Culvert 1241 Flood & Wetland



Culverts
- Culvert
- Culvert Part of Storm Sewer System
- Bike Tunnel

LCDOT Bike Paths
- Paved
- Unpaved
- On Road Bike Lane

Flood Hazard Zones
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- Area of Minimal Flood Hazard



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LakeCounty
Division of Transportation

SVBP UPRR Underpass Flood & Wetland

Culverts

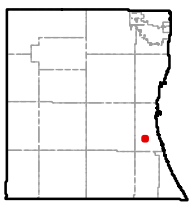
- Culvert
- Culvert Part of Storm Sewer System
- Bike Tunnel

LCDOT Bike Paths

- Paved
- Unpaved
- On Road Bike Lane

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard
- Area of Minimal Flood Hazard



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8/16/2022

LakeCounty
Division of Transportation

January 18, 2023

To: Diana Decker, PE
Vice President - Roadway
P 773.355.2952
C 224.383.4872
CiorbaGroup
8725 W. Higgins Road, Suite 600
Chicago, IL 60631
773.775.4009 | ciorba.com

Re: Proposal - Geotechnical Exploration
Proposed LCDOT Culvert Program
Various Locations

Proposal No. Q23.026

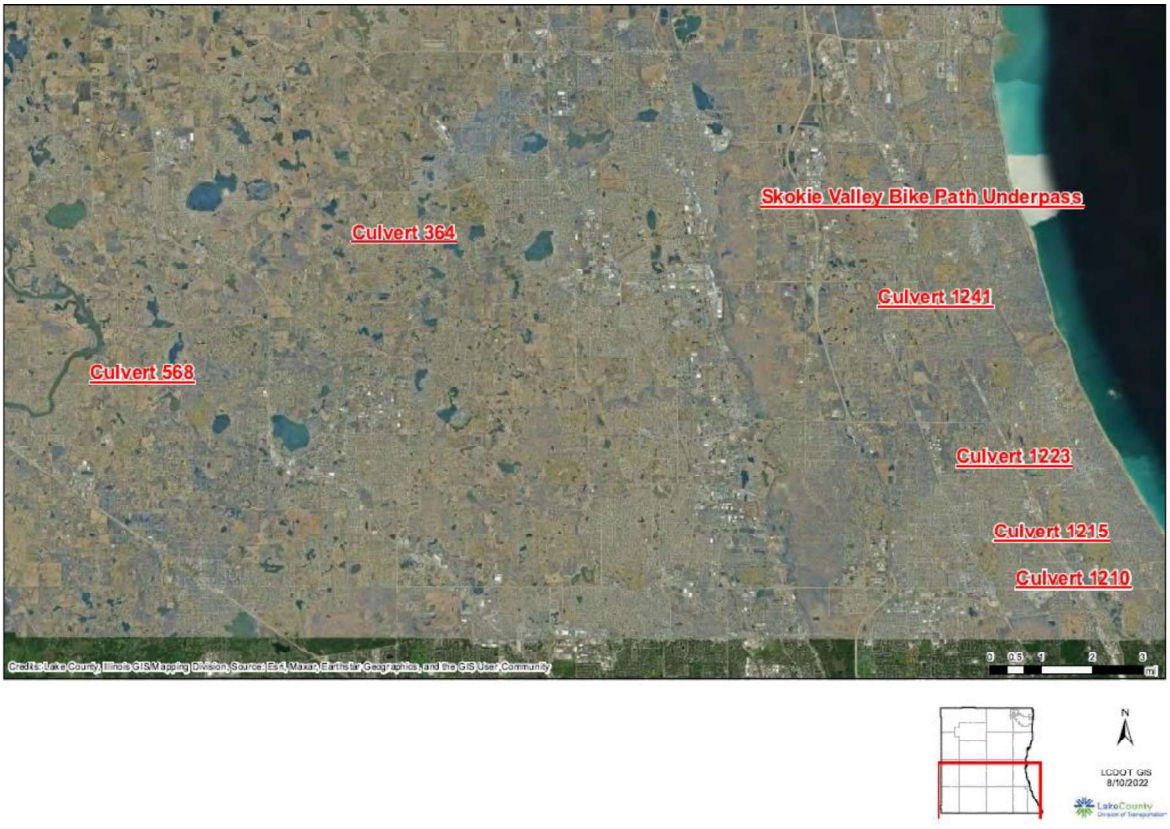
Via email: ddecker@ciorba.com

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 design Lake County's culvert replacement program for 2024. Rubino proposes to perform geotechnical borings at each of the culvert/underpass locations in accordance with the IDOT Geotechnical Manual 2020.



Information received:

- RFP email from Diana Decker, PE of Ciorba Group on January 12, 2023 .
- Drawings provided as part of the RFP: Included as an attachment to this proposal.

Culvert Design Criteria received: Summary below. See attachments for further details.

Culvert	Existing	Proposed
Culvert 568	Culvert 568 - Miller Road (East of Kelsey Road) **15" Corrugated Metal Pipe**. Adjacent tree will need to be removed to replace culvert. Consider culvert lining if possible.	Remove and replace with RCP flared end section Or line existing culvert
Culvert 364	Culvert 364 - Gilmer Road (North of Chevy Chase Road) **30" Concrete Pipe** - Installed 1993. Flared End Section to No End Section. Consider Upsizing and Raising Culvert.	Replace culvert, probable upsize and raise invert Use excess spoils to create smother slopes
Skokie Valley Bike Path Underpass	Bike Path Underpass to cross the Union Pacific Railway **13' x 12' Box Culvert with headwalls** used for Underpass. Drainage issue with standing and flowing water on path through underpass	Raise bottom of tunnel Or concrete swale on NE side Or Rain Gardens
Culvert 1241	Culvert 1241 Skokie Valley Bike Path (North of Westleigh Road) **36" Concrete Pipe** - Installed 1994. Headwall to No End Section There are sink holes east of the path (in vegetated area)	Replace in kind, 36" RCP
Culvert 1223	Culvert 1223 Skokie Valley Bike Path (South of West Park Ave) **48" Concrete Pipe** - There are sink holes east of the path (in vegetated area)	Replace in kind 48" RCP Headwall on West side FES on east side
Culvert 1215	Culvert 1215 Skokie Valley Bike Path (North of Clavey Road). **48" Concrete Pipe** - Down Guys for a wood ComEd Pole (#4866) near the headwall - May need to modify the down guys or brace the pole during construction	Replace in kind, 48" RCP Headwall on West side FES on east side
Culvert 1210	Culvert 1210 Skokie Valley Bike Path (North of Lake Cook Road). **Double 42" Concrete Pipe.** Consider raising top of headwall to allow for support of the edge of the bike path. Fence will need to be removed and replaced.	Replace in kind, double 42" RCP Headwall on West Side FES on east side

Additional information needed for reporting:

- As-drilled Boring elevations
- Proposed Culvert Bearing elevation

Boring Depths

Per the IDOT 2020 Geotechnical Manual Section 3.4.3.3.e Borings for Culverts, culvert structure borings should be drilled to a depth of at least 2.0 times the fill height (the distance between the proposed crown grade and the flow line), unless bedrock is encountered first. If the proposed depths below do not meet this requirement, please let Rubino know so that we can amend our scope.

To obtain data to evaluate subsurface conditions at each culvert or rain garden location, Rubino proposes the drilling scope of work as detailed below:

LOCATION	GEOTECHNICAL DESIGN ELEMENT	NUMBER OF SHALLOW BORINGS	DEPTH (FEET BEG*)	*ADDITIONAL SAMPLES NEEDED FOR TESTING*
Culvert 568	15" RCP flared end section	2	30	Rimac
Culvert 364	>30" RCP	2	30	Rimac
Skokie Valley Bike Path Underpass	Rain Gardens	2	10	Hydrometers
Culvert 1241	Replace in kind, 36" RCP	2	30	Rimac
Culvert 1223	Replace in kind 48" RCP	2	30	Rimac
Culvert 1215	Replace in kind, 48" RCP	2	30	Rimac
Culvert 1210	Replace in kind, double 42" RCP	2	30	Rimac

14 Total Borings ***380 Total Lineal Feet***

SOIL CLASSIFICATION METHOD – IDH
SPT SAMPLING INTERVALS – 2 ½ FT SAMPLING TO 30 FT

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 DISCUSSION

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

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

Traffic Control

Rubino anticipates that traffic control will be necessary as noted below. Rubino will subcontract a traffic control company to provide flaggers, an attenuator truck or a single lane closure or a shoulder closure.

LOCATION	TRAFFIC CONTROL BUDGETED
Culvert 568	Lane Closure, Flaggers
Culvert 364	Lane Closure, Flaggers
Skokie Valley Bike Path Underpass	None – On Bike Path
Culvert 1241	None – On Bike Path
Culvert 1223	None – On Bike Path
Culvert 1215	None – On Bike Path
Culvert 1210	None – On Bike Path

Permits Anticipated

LOCATION	PERMIT ANTICIPATED	INSURANCE BOND ANTICIPATED
Culvert 568	Lake County Division of Transportation	Yes
Culvert 364	Lake County Division of Transportation	Yes
Skokie Valley Bike Path Underpass	UPRR Permitting Possible / Forest Preserve of Lake County	Yes
Culvert 1241	Forest Preserve of Lake County	Yes
Culvert 1223	Forest Preserve of Lake County	Yes
Culvert 1215	Forest Preserve of Lake County	Yes
Culvert 1210	Forest Preserve of Lake County	Yes

Boring Locations

The boring locations have not been determined at this time. Borings will be located as close to proposed culverts as possible based on existing surface and subsurface utility locations.

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

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 **30 feet (IDOT**) and 5 - foot intervals thereafter, as applicable.

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

Completion of Borings

Upon completion of drilling, the borings will be backfilled with soil cuttings and capped with similar existing material or asphalt cold patch as applicable. 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.

Geotechnical 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	8	Split spoon, bulk, or Shelby Tube
Hydrometer	2	Split spoon, bulk, or Shelby Tube
Natural Moisture Content	140	Cohesive Samples
Organic Content	7	Split spoon, bulk, or Shelby Tube

GEO REPORT

Upon completion of field and laboratory work, Rubino will prepare a geotechnical engineering report using the collected data. The geo report will include the following:

- *Summary of client-provided project information and report basis*
- *Overview of encountered subsurface conditions*
- *Overview of field and laboratory tests performed including results*
- *Geotechnical recommendations pertaining to:*
  - *RCP Culvert installation (settlement if increase in fill applicable, recommendations for soil stabilization if applicable)*
  - *Rain garden infiltration rate estimates based on laboratory hydrometer*
- *Construction considerations, including temporary excavation and construction control of water*

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 and rig mobilization	10 – 15
Field work including site layout and drilling	1 day per site
Laboratory Testing (days after field work)	10 – 12
Preparation of the Geotechnical Report (days after lab testing)	10

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.

UTILITY LOCATE AND OUTSIDE SERVICES

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 privately owned utility locates being coordinated by the owner prior to drill rig mobilization.

FEES

Rubino proposes to charge the fee for performance of the outlined scope of services on a cost-plus fixed fee basis per the attached CECS. Based on the scope of services outlined above, the fee will be:

CECS BDE3608: $58,150

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 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 fee will not be performed without your prior authorization.

AUTHORIZATION

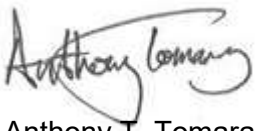
If this proposal is acceptable to you, Rubino will perform the work in accordance with the attached General Conditions that are incorporated into and made a part of this proposal. Please sign below as notice to proceed and return one copy of this proposal intact to our office. Rubino will proceed with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

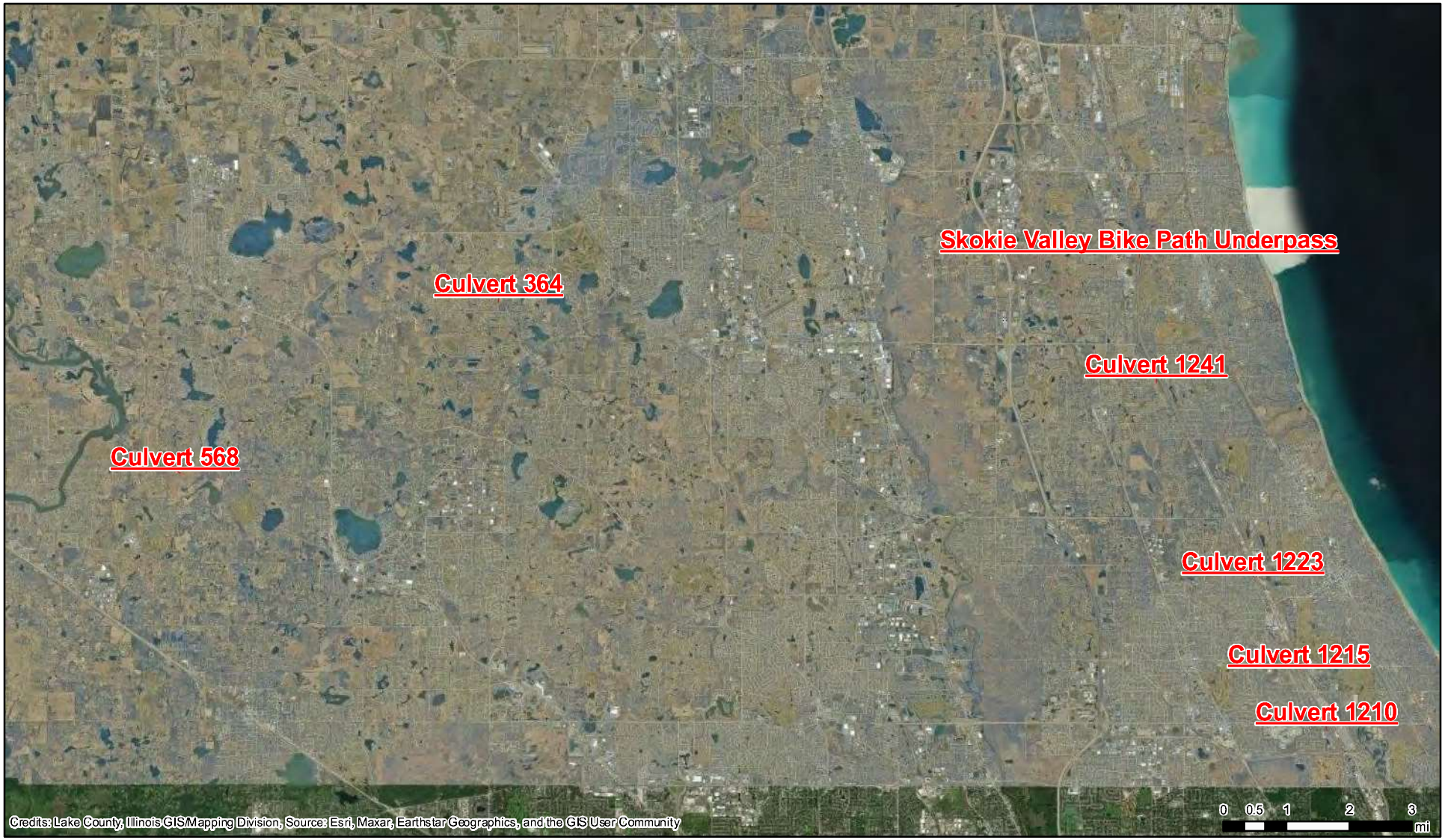
RUBINO ENGINEERING, INC. IS:
AN AASHTO-ACCREDITED LABORATORY
IDOT PREQUALIFIED
IDOT DBE-CERTIFIED (100% WOMAN-OWNED)

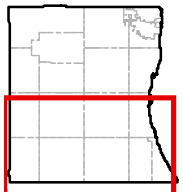
MAL/file

Attachments: Proposal Acceptance and Data Sheet
Schedule of Services and Fees
General Conditions

**This is an electronic copy. Hard Copies of this proposal are available upon request.

Location Map





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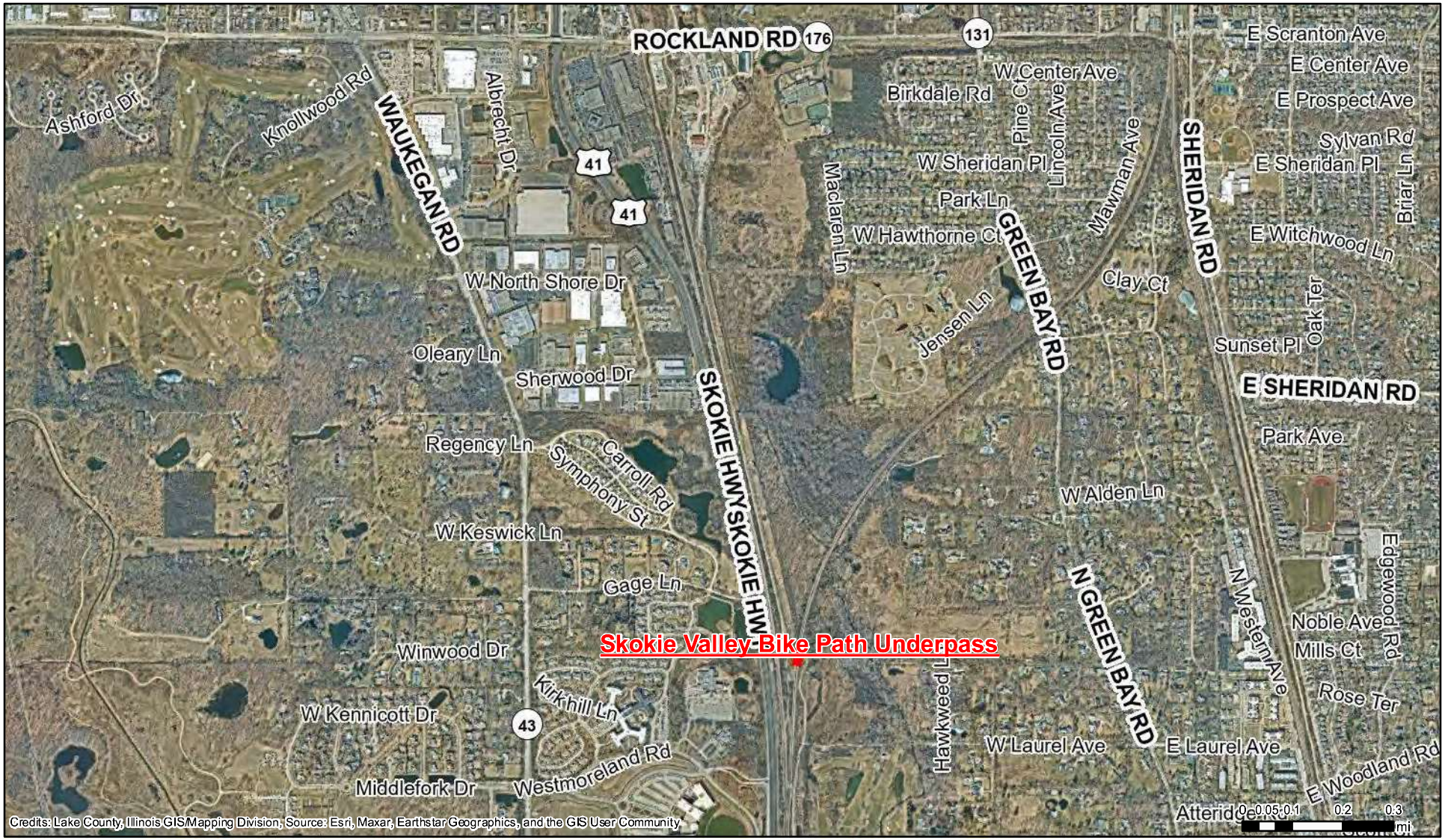
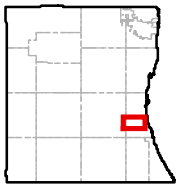
LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Underpass (SVBP) Location Map



Bike Path Underpass to cross the Union Pacific Railway
13' x 12' Box Culvert with headwalls used for Underpass
Drainage issue with standing and flowing water on path through underpass



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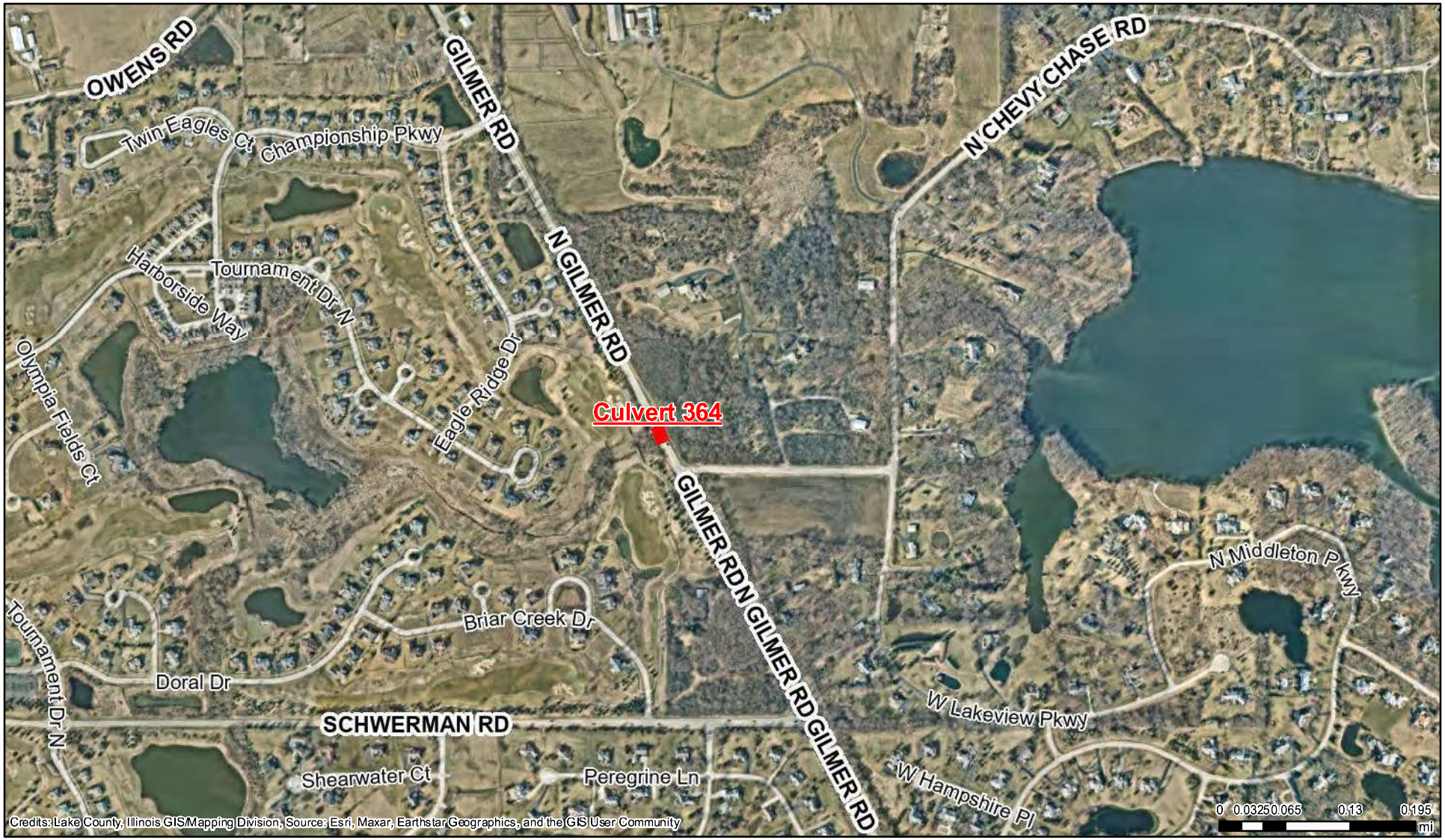
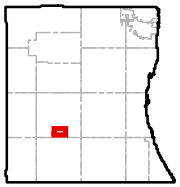
8/10/2022

LakeCounty
Division of Transportation

Culvert 364 (Gilmer) Location Map



Culvert 364 - Gilmer Road (North of Chevy Chase Road)
30" Concrete Pipe - Installed 1993
Flared End Section to No End Section
Unable to rate due to both end sections being under water (2022)
*Consider Upsizing and Raising Culvert
*Verify Culvert is Within R.O.W.



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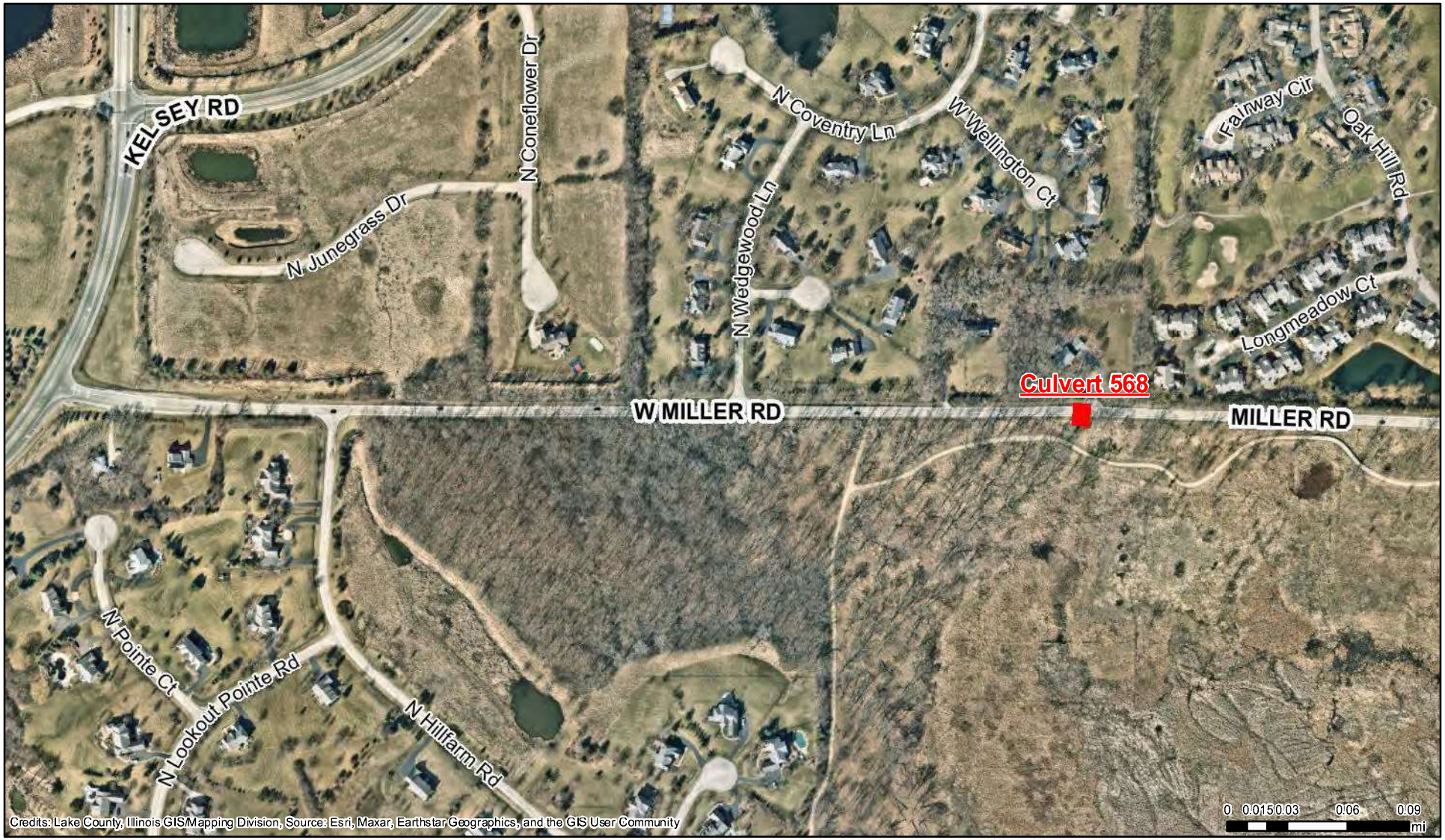
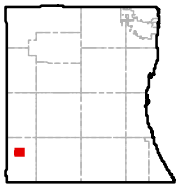
8/10/2022

LakeCounty
Division of Transportation

Culvert 568 (Miller) Location Map



Culvert 568 - Miller Road (East of Kelsey Road)
15" Corrugated Metal Pipe
Catch Basin with Type 8 Frame to Unknown End
Rated 4 (Severe) Bottom is heavily rusted with visible holes (2022)
*Adjacent tree will need to be removed to replace culvert
*Consider culvert lining if possible



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8/10/2022

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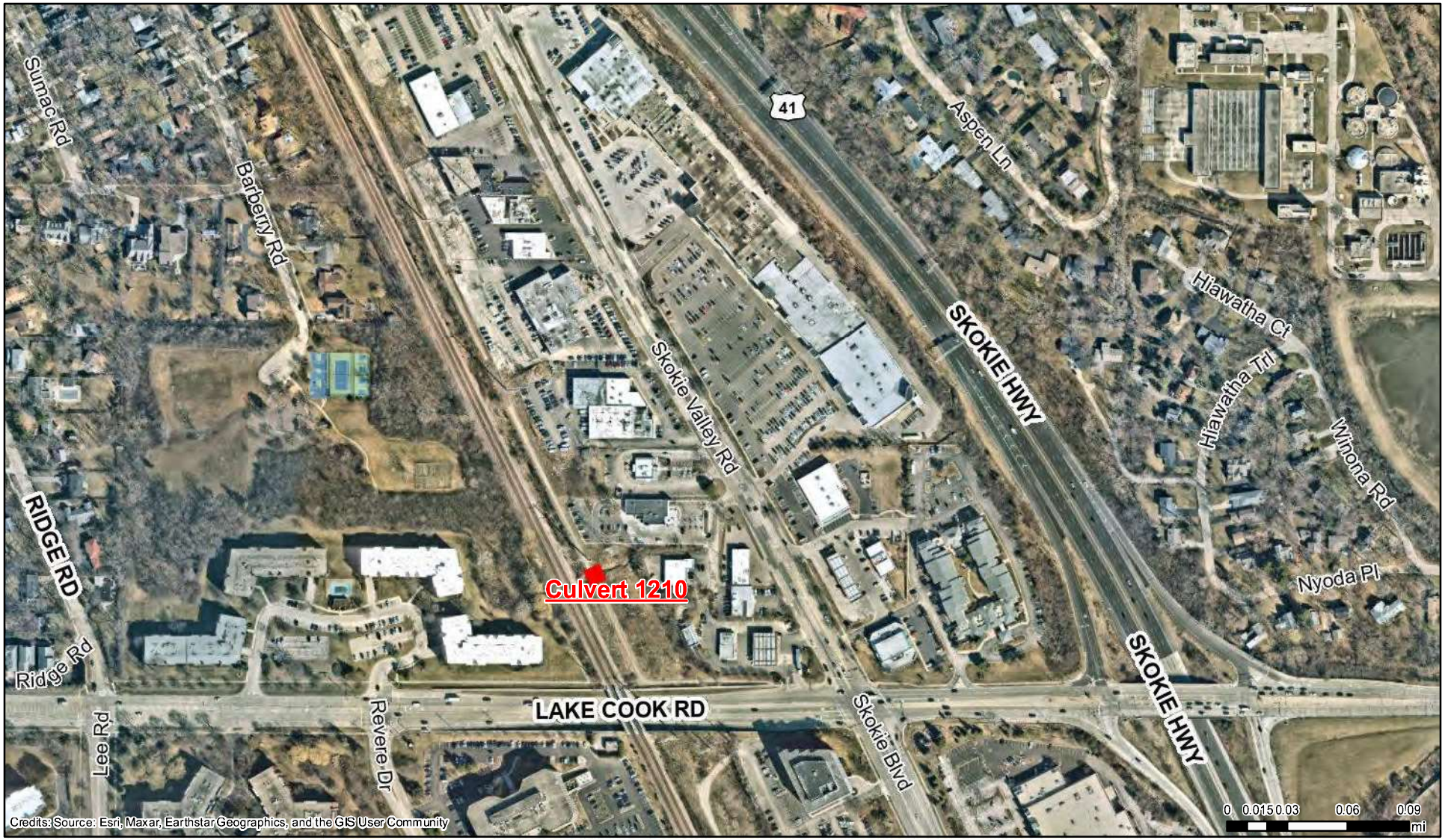
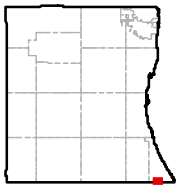
Division of Transportation

Culvert 1210 (SVBP) Location Map



Culvert 1210 Skokie Valley Bike Path (North of Lake Cook Road)
Double 42" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
*Consider raising top of headwall to allow for support of the edge of the bike path
*Fence will need to be removed and replaced



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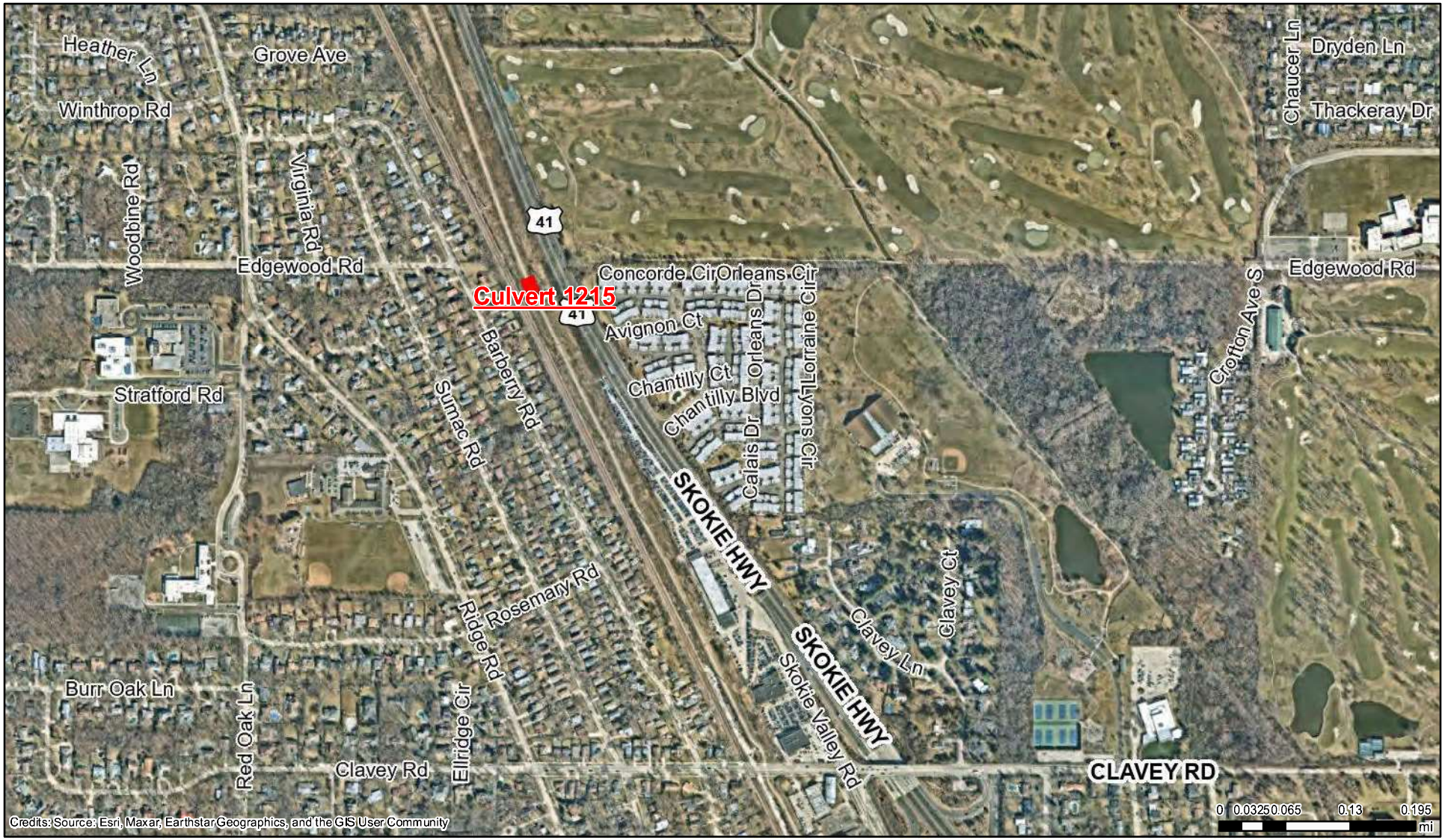
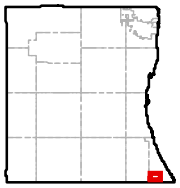
LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Culvert 1215 (SVBP) Location Map



Culvert 1215 Skokie Valley Bike Path (North of Clavey Road)
48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
*Down Guys for a wood ComEd Pole (#4866) near the headwall - May need to modify the down guys or brace the pole during construction



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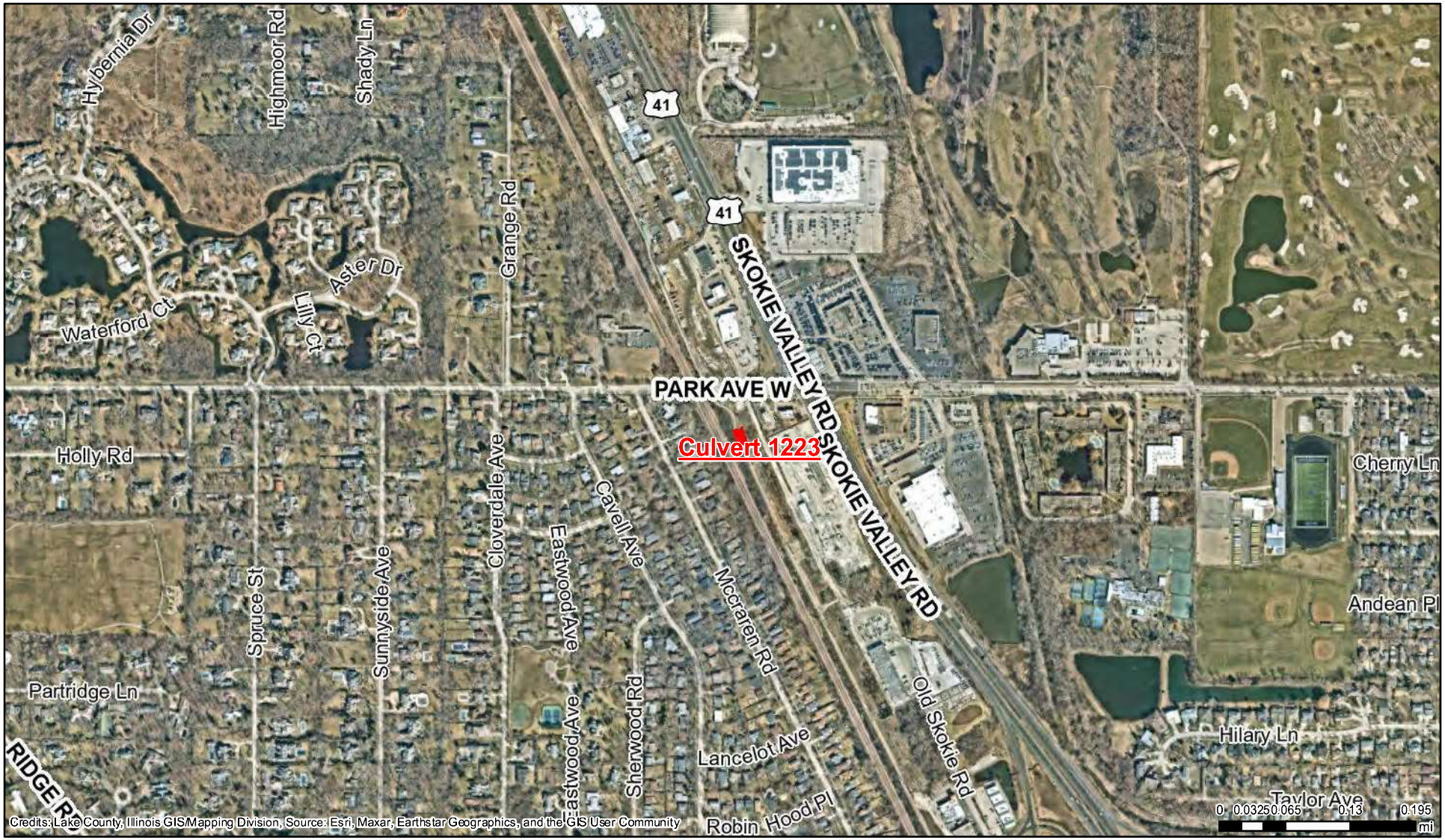
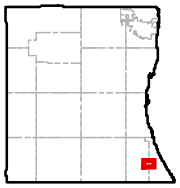
LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Culvert 1223 (SVBP) Location Map



Culvert 1223 Skokie Valley Bike Path (South of West Park Ave)
48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
There are sink holes east of the path (in vegetated area)



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LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

PAYROLL ESCALATION TABLE
FIXED RAISES

FIRM NAME	Rubino Engineering, Inc.	**DATE**	01/18/23
PRIME/SUPPLEMENT	Prime	**PTB-ITEM#**	1
Prepared By	Anthony Tomaras		

CONTRACT TERM	24	**MONTHS**		**OVERHEAD RATE**	169.03%
START DATE	4/1/2023			**COMPLEXITY FACTOR**	0
RAISE DATE	3/1/2024			**% OF RAISE**	3%
END DATE	3/31/2025				

ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	4/1/2023	3/1/2024	11	45.83%
1	3/2/2024	3/1/2025	12	51.50%
2	3/2/2025	4/1/2025	1	4.42%

The total escalation = 1.75%

PAYROLL RATES

FIRM NAME Rubino Engineering, Inc. **DATE** 01/18/23
PRIME/SUPPLEMENT Prime
PTB-ITEM # 1

ESCALATION FACTOR **1.75%**

Note: Rates should be capped on the AVG 1 tab as necessary

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Material Tester 1 & 2	$41.92	$42.66
Project Manager / Engineer	$45.26	$46.05
Staff Engineer / Geologist /	$32.24	$32.81
Laboratory Staff	$26.00	$26.46
Principal	$70.00	$71.23
Driller	$58.20	$59.22
Administrative	$27.17	$27.65

Subconsultants

FIRM NAME Rubino Engineering, Inc. **DATE** 01/18/23
PRIME/SUPPLEMENT Prime
PTB-ITEM # 1

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	**0.00**	**0.00**

COST PLUS FIXED FEE
COST ESTIMATE OF CONSULTANT SERVICES

Bureau of Design and Environment
Prepared By: Consultant

FIRM Rubino Engineering, Inc. **DATE** 01/18/23
PTB-ITEM # 1 **OVERHEAD RATE** 169.03%
PRIME/SUPPLEMENT Prime **COMPLEXITY FACTOR** 0

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	DIRECT COSTS (D)	FIXED FEE (E)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
DBE	Geotechnical	206	7,967	13,467	34,188	2,948		58,570	58,570	100.00%
			-	-		-		-	-	
			-	-		-		-	-	
			-	-		-		-	-	
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	Subconsultant DL					0			-	
	TOTALS	206	7,967	13,467	34,188	2,948	-	58,570	58,570	100.00%
			21,434							

DBE 100.00%

AVERAGE HOURLY PROJECT RATES

FIRM Rubino Engineering, Inc.
PTB-ITEM# 1
PRIME/SUPPLEMENT Prime

DATE 01/18/23

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Geotechnical															
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Material Tester 1 & 2		0.0																	
Project Manager / Engineer	46.05	70.0	33.98%	15.65	70	33.98%	15.65												
Staff Engineer / Geologist /	32.81	124.0	60.19%	19.75	124	60.19%	19.75												
Laboratory Staff	26.46	4.0	1.94%	0.51	4	1.94%	0.51												
Principal	71.23	8.0	3.88%	2.77	8	3.88%	2.77												
Driller	59.22	0.0																	
Administrative	27.65	0.0																	
		0.0																	
		0.0																	
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TOTALS		206.0	100%	$38.68	206.0	100.00%	$38.68	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

Illinois Department of Transportation

Direct Costs Check Sheet

COMPANY NAME: Rubino Engineering, Inc

PTB NUMBER:

TODAY'S DATE:

ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			$0.00	$0.00
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			$0.00	$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			$0.00	$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			$0.00	$0.00
Vehicle Owned or Leased	$32.50/half day (4 hours or less) or $65/full day		9	$65.00	$585.00
Vehicle Rental	Actual cost (Up to $55/day)			$0.00	$0.00
Tolls	Actual cost			$0.00	$0.00
Parking	Actual cost			$0.00	$0.00
Overtime	Premium portion (Submit supporting documentation)			$0.00	$0.00
Shift Differential	Actual cost (Based on firm's policy)			$0.00	$0.00
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)			$0.00	$0.00
Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)			$0.00	$0.00
Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)			$0.00	$0.00
Project Specific Insurance	Actual cost			$0.00	$0.00
Monuments (Permanent)	Actual cost			$0.00	$0.00
Photo Processing	Actual cost			$0.00	$0.00
2-Way Radio (Survey or Phase III Only)	Actual cost			$0.00	$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual cost			$0.00	$0.00
CADD	Actual cost (Max $15/hour)			$0.00	$0.00
Web Site	Actual cost (Submit supporting documentation)			$0.00	$0.00
Advertisements	Actual cost (Submit supporting documentation)			$0.00	$0.00
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			$0.00	$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			$0.00	$0.00
Recording Fees	Actual cost			$0.00	$0.00
Transcriptions (specific to project)	Actual cost			$0.00	$0.00
Courthouse Fees	Actual cost			$0.00	$0.00
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			$0.00	$0.00
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)		2	$ 2,300.00	$4,600.00
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			$0.00	$0.00
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			$0.00	$0.00
Testing of Soil Samples*	Actual cost			$0.00	$0.00
Lab Services*	Actual cost (Provide breakdown of each cost)			$0.00	$0.00
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)			$0.00	$0.00
Atterberg Limits	In house direct cost		8	$ 70.00	$560.00
Hydrometer	In house direct cost		2	$ 140.00	$280.00
Natural Moisture Content	In house direct cost		140	$ 7.00	$980.00
Organic Content	In house direct cost		7	$ 23.33	$163.31
Drill Rig Mobilization	In house direct cost				$0.00
Geotechnical Drilling per hour	In house direct cost		56	$420.00	$23,520.00
CCDD Analytical Testing	Outside Direct Cost				$0.00
pH Testing	In house direct cost				$0.00
Insruance Bond for Permits	Outside Direct Cost		7	$500.00	$3,500.00
				$0.00	$0.00
TOTAL DIRECT COST					**$34,188.31**

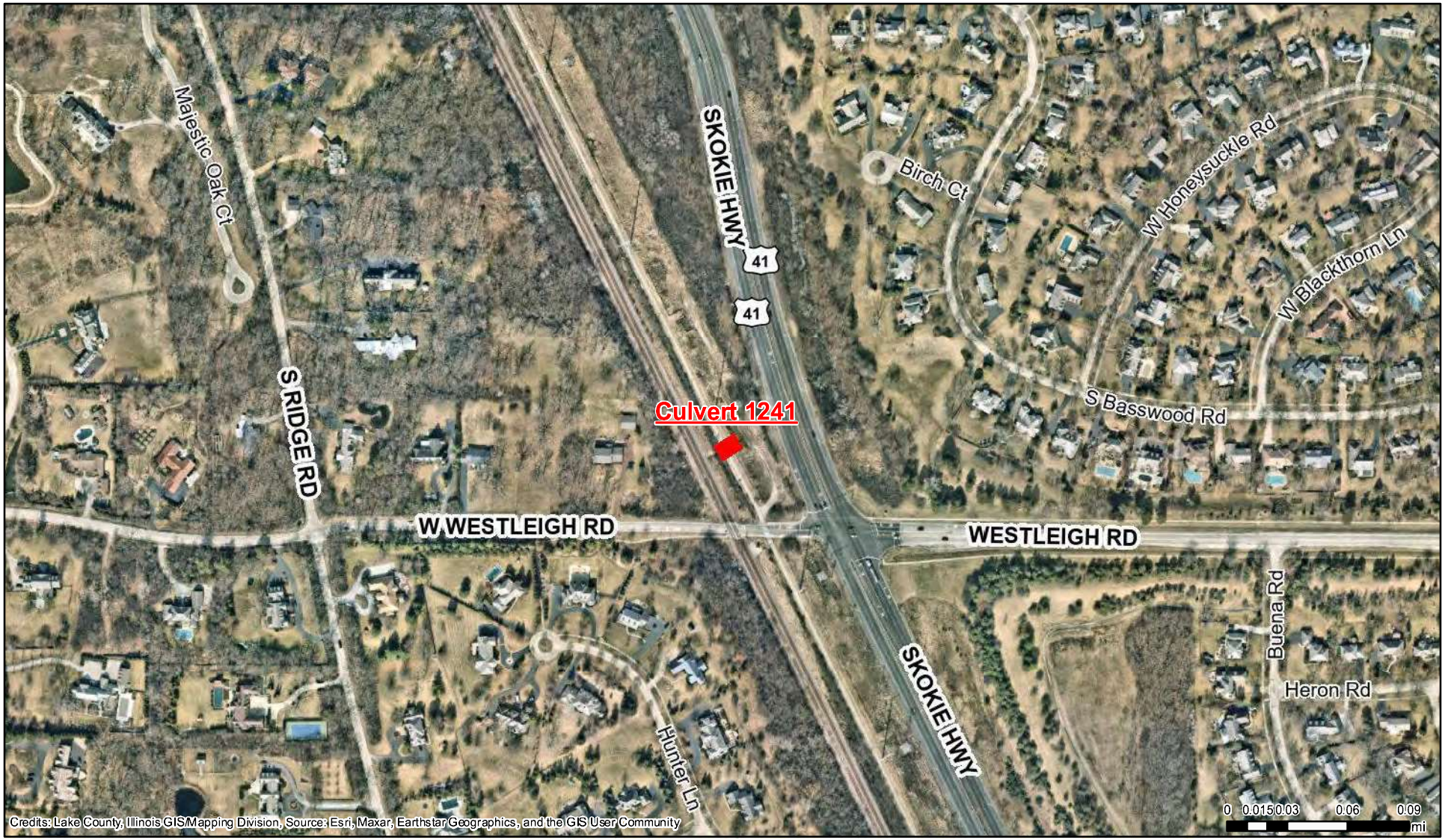
**If other allowable costs are needed and not listed, please add in the above spaces provided.*

LEGEND

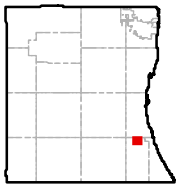
W.O. = Work Order

J.S. = Job Specific

Culvert 1241 (SVBP) Location Map



Culvert 1241 Skokie Valley Bike Path (North of Westleigh Road)
36" Concrete Pipe - Installed 1994
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
There are sink holes east of the path (in vegetated area)



N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Project: SUE Level B for LCDOT 2024 Culvert Replacement
Location: Various locations in Lake County, Illinois **Client: Ciorba Group, Inc.**
Job No: NA **Date: 04/04/2023**
Proposal No. P23-17

PROJECT SUMMARY:
Project Description: This project requires Subsurface Utility Engineering (SUE) Quality Level B (Utility designation) at six existing culverts and one railroad underpass located in Lake County, Illinois. The locations are shown on Exhibit "A" provided by the Client.

General Scope Information:
Sanchez will coordinate with the Client to prioritize the marking of utilities at the culvert/underpass locations. The subsurface utilities will be identified within 200' each side of the culverts. The utilities will be marked and flagged for survey purposes.

THE FOLLOWING TASKS WILL BE PERFORMED BY S&A AS PART OF THIS CONTRACT:

1. ADMINISTRATION / COORDINATION
1.1. Meetings with client. In-house meetings. Progress reports, scheduling, invoicing, etc.
1.2. Technical direction of staff.
1.3. Project management, coordination.

2. DESIGNATION OF UNDERGROUND UTILITIES
2.1. Sanchez will utilize various geophysical equipment i.e., electromagnetic (EM) pipe and cable locators, ground penetrating radar (GPR) and various other tools and techniques to designate underground utilities within the culvert locations described above.
2.2. All subsurface utilities will be delineated on the surface using water-based paint and/or flags. Utility depths will not be provided, location of utilities will be provided at ground level only.

SURVEY LOCATION OF DESIGNATED UTILITY LINES
2.3. Survey location of the various designated utility lines around the culvert locations. Survey control will be provided by the Client.

3. DRAFTING OF DESIGNATED UTILITIES
3.1. Drafting of Utilities lines using IDOT Standards for CAD Drafting of Surveys. Note: elevation of utility lines will be provided at ground level.
3.2. Drafting of survey will also include the ground/pavement elevations at each spot surveyed.

4. Exclusions
4.1. Permits and fees, if needed are not included.
4.2. Utility records research is not included.

Note: Geophysical designating techniques, although highly reliable, are subject to outside interference which are beyond the control of Sanchez and may impede the effectiveness of subsurface utility investigations. Soil conditions, utility materials, size, depth, and conductivity may prevent the location of some subsurface utilities. Sanchez utilizes state of the art equipment and methodology during all phases of utility investigations, but no guarantee is hereby expressed that all facilities will be detected.

5. SCHEDULE

4.1. Sanchez anticipates up to 3 days to complete the field work. Sanchez field crew will mobilize within 1 week of notice to proceed.

SANCHEZ WILL DELIVER TO CLIENT THE FOLLOWING ITEMS AS PART OF THIS WORK:

1. PDF and KMZ field sketch of designated utilities.
2. Field notes, pictures, and any other documents obtained in the utility investigation.
1. Copies of Field Book
2. Location of surveyed points in Spreadsheet format.
3. Microstation CAD file (DGN) with 2D underground utility lines.

PROPOSED ESTIMATED FEES:

SUE Quality Level B (Utility Designation), and Survey:

Not-to-Exceed amount of $ 8,879.00 (Eight Thousand Eight Hundred and Seventy-Nine dollars)

We look forward to working with you on this project. Please feel free to contact me with any questions or requests for additional information.

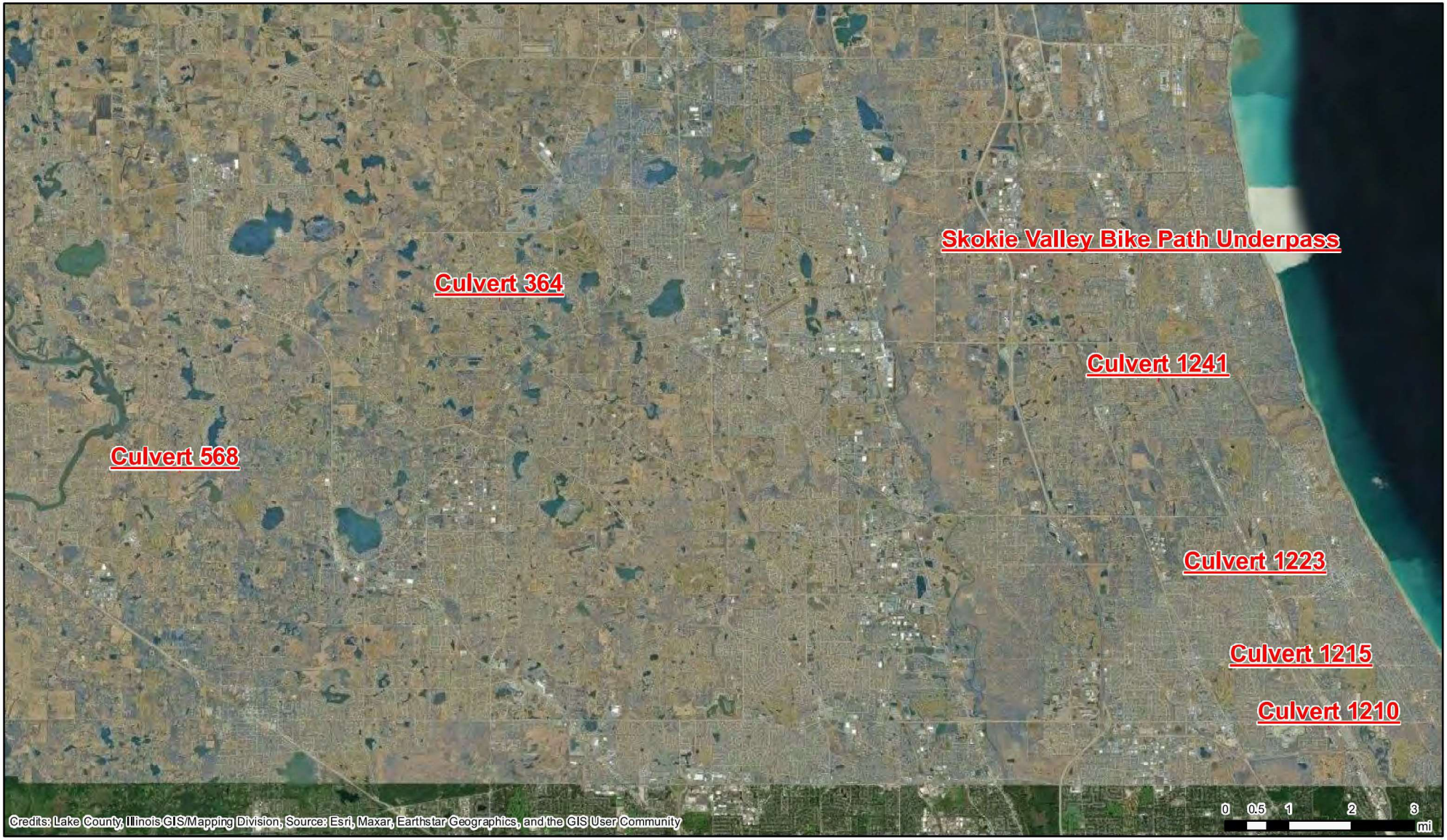
Sincerely,

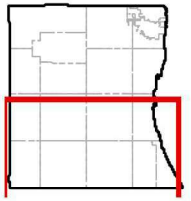
Gerardo P. Sanchez

Gerardo P. Sanchez, P.L.S.
President
Sanchez & Associates P.C.

Exhibit "A"

Location Map





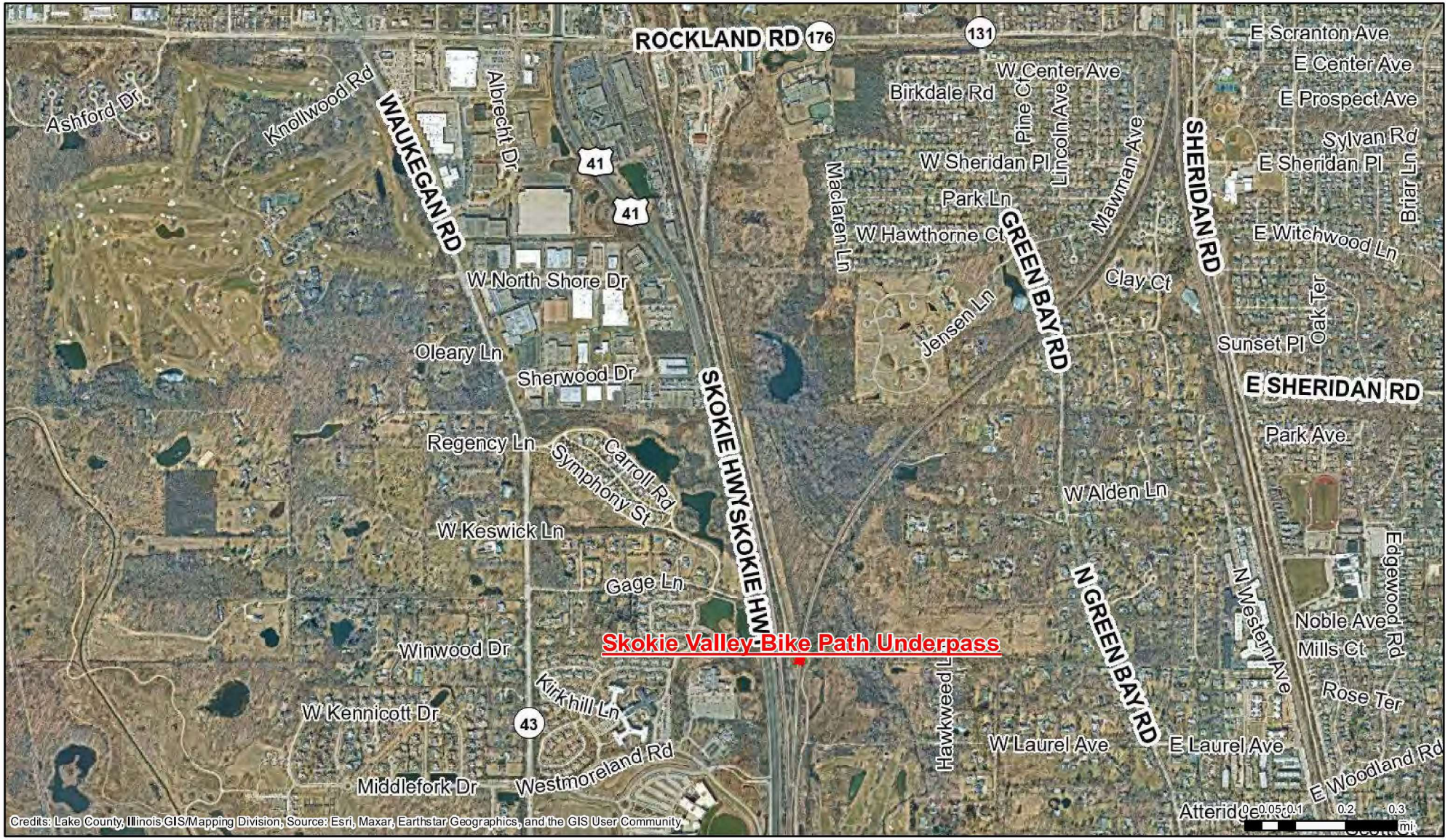
N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Exhibit "A"

Underpass (SVBP) Location Map



Bike Path Underpass to cross the Union Pacific Railway
13' x 12' Box Culvert with headwalls used for Underpass
Drainage issue with standing and flowing water on path through underpass

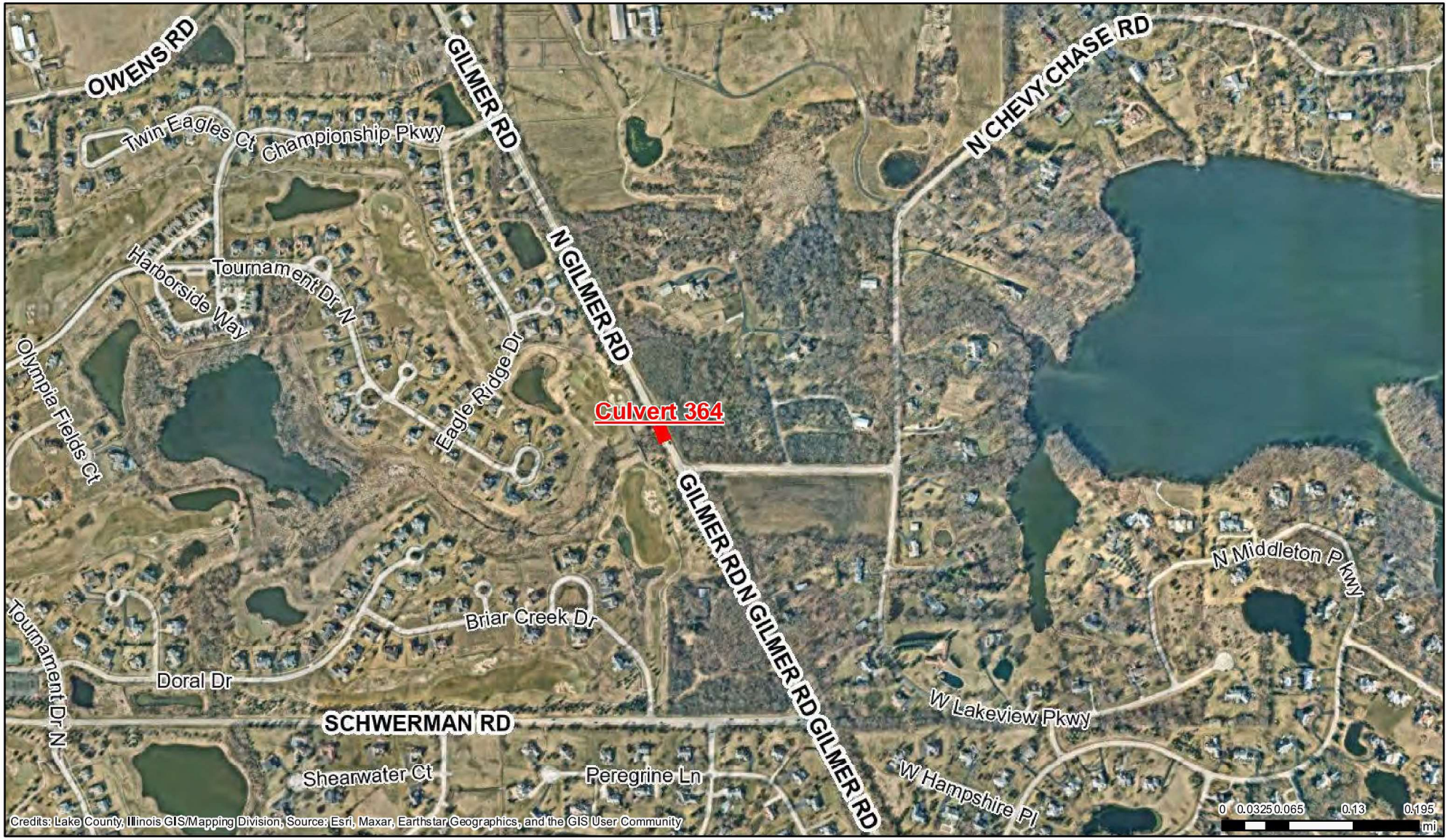
N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Exhibit "A"

Culvert 364 (Gilmer) Location Map



Culvert 364 - Gilmer Road (North of Chevy Chase Road)
30" Concrete Pipe - Installed 1993
Flared End Section to No End Section
Unable to rate due to both end sections being under water (2022)
*Consider Upsizing and Raising Culvert
*Verify Culvert is Within R.O.W.

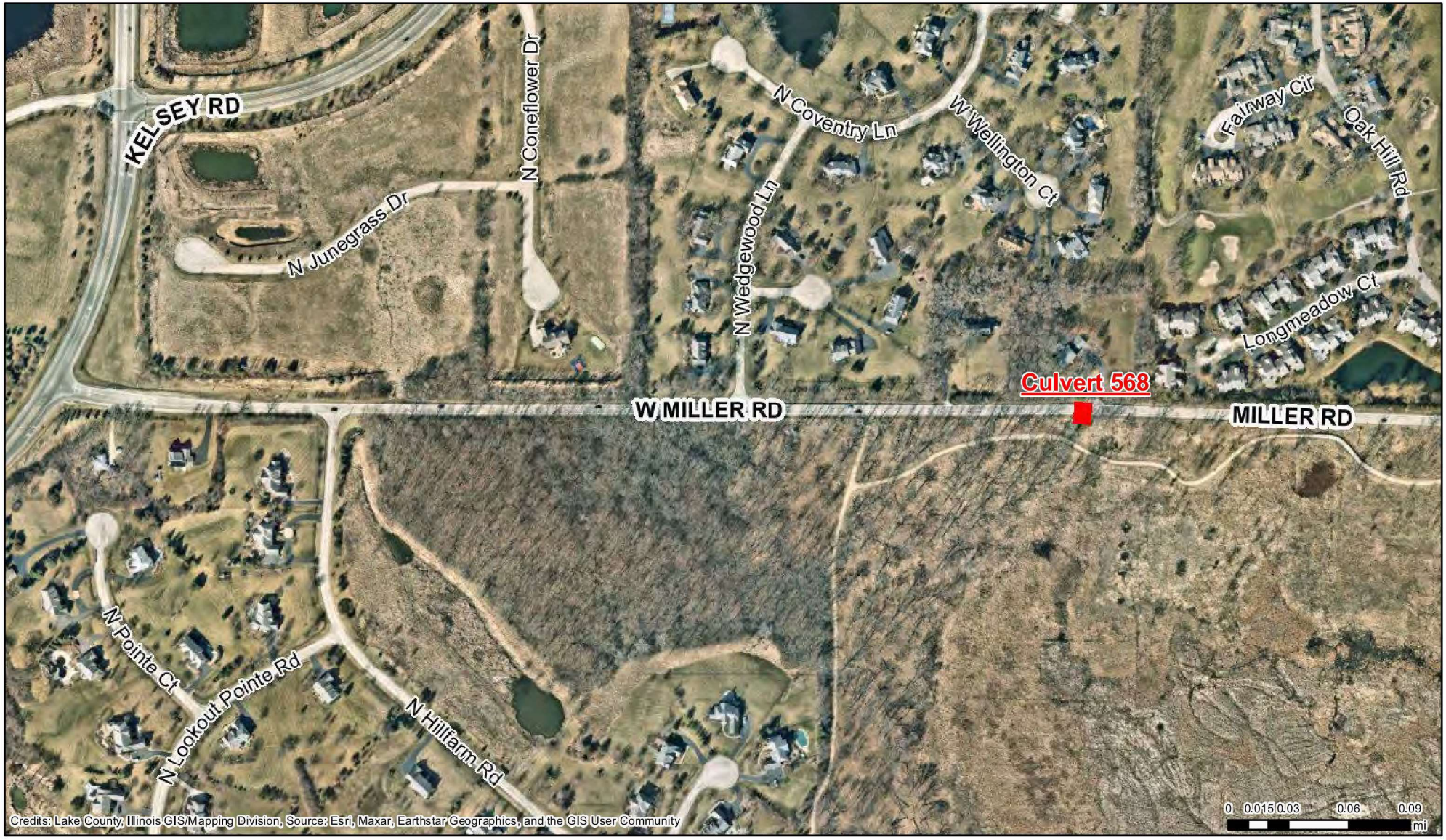
N

LCDOT GIS
8/10/2022

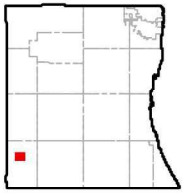
LakeCounty
Division of Transportation

Exhibit "A"

Culvert 568 (Miller) Location Map



Culvert 568 - Miller Road (East of Kelsey Road)
15" Corrugated Metal Pipe
Catch Basin with Type 8 Frame to Unknown End
Rated 4 (Severe) Bottom is heavily rusted with visible holes (2022)
*Adjacent tree will need to be removed to replace culvert
*Consider culvert lining if possible



N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Exhibit "A"

Culvert 1210 (SVBP) Location Map

Culvert 1210 Skokie Valley Bike Path (North of Lake Cook Road)
Double 42" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
*Consider raising top of headwall to allow for support of the edge of the bike path
*Fence will need to be removed and replaced

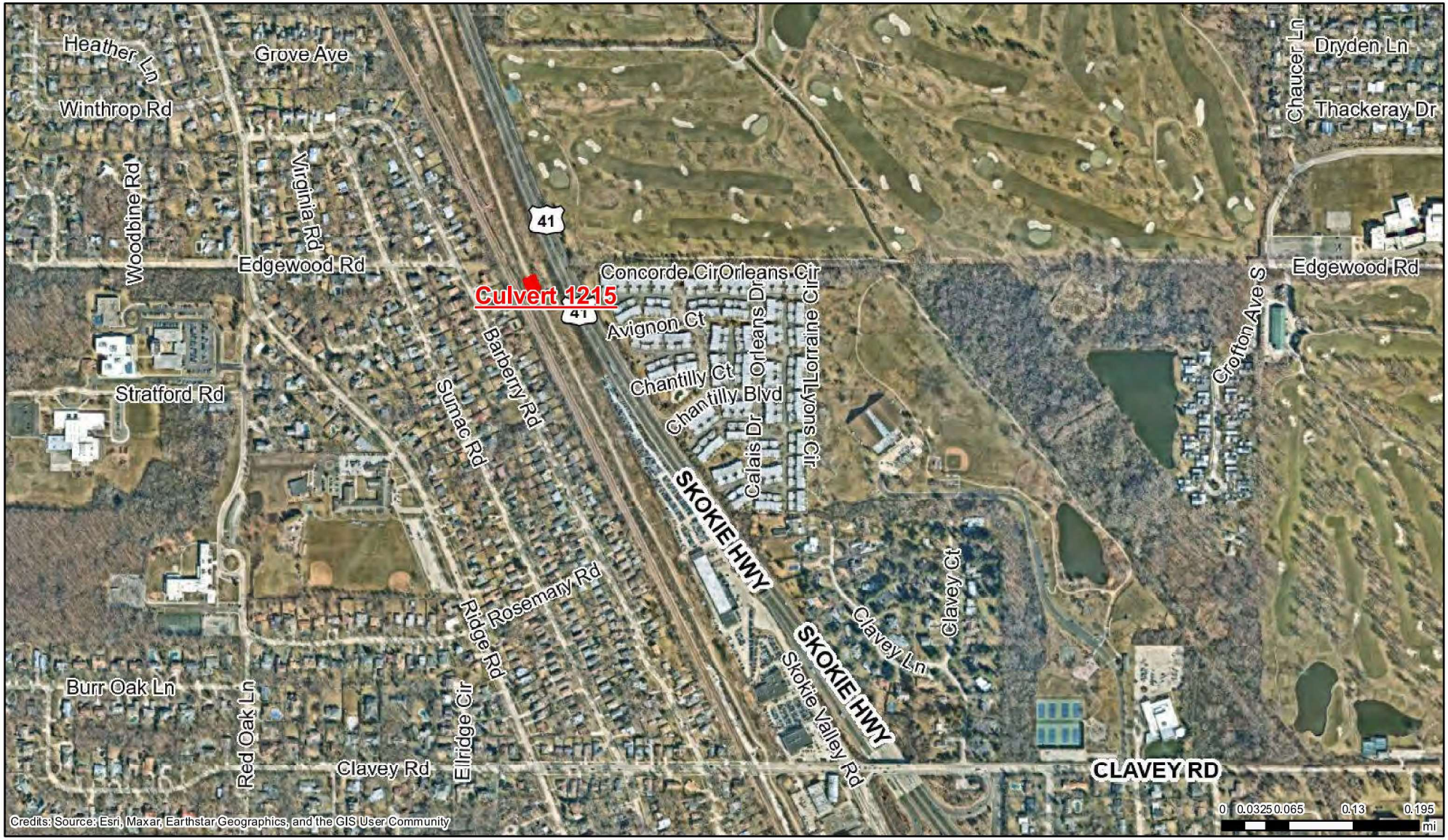
N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Exhibit "A"

Culvert 1215 (SVBP) Location Map



Culvert 1215 Skokie Valley Bike Path (North of Clavey Road)
48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
*Down Guys for a wood ComEd Pole (#4866) near the headwall - May need to modify the down guys or brace the pole during construction

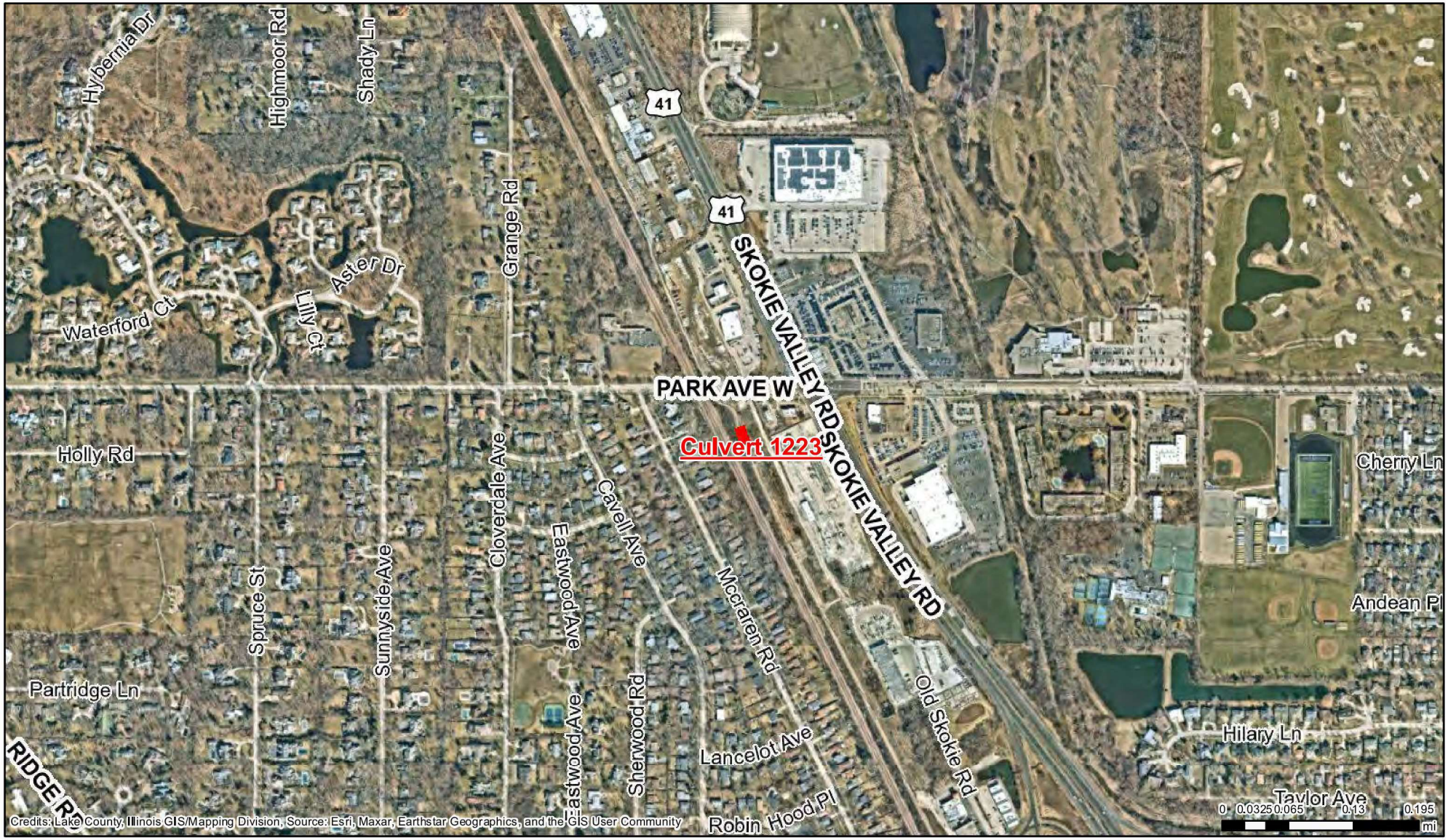
N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Exhibit "A"

Culvert 1223 (SVBP) Location Map



Culvert 1223 Skokie Valley Bike Path (South of West Park Ave)
48" Concrete Pipe - Installed 1980 (year estimated from plans and aerials)
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
There are sink holes east of the path (in vegetated area)

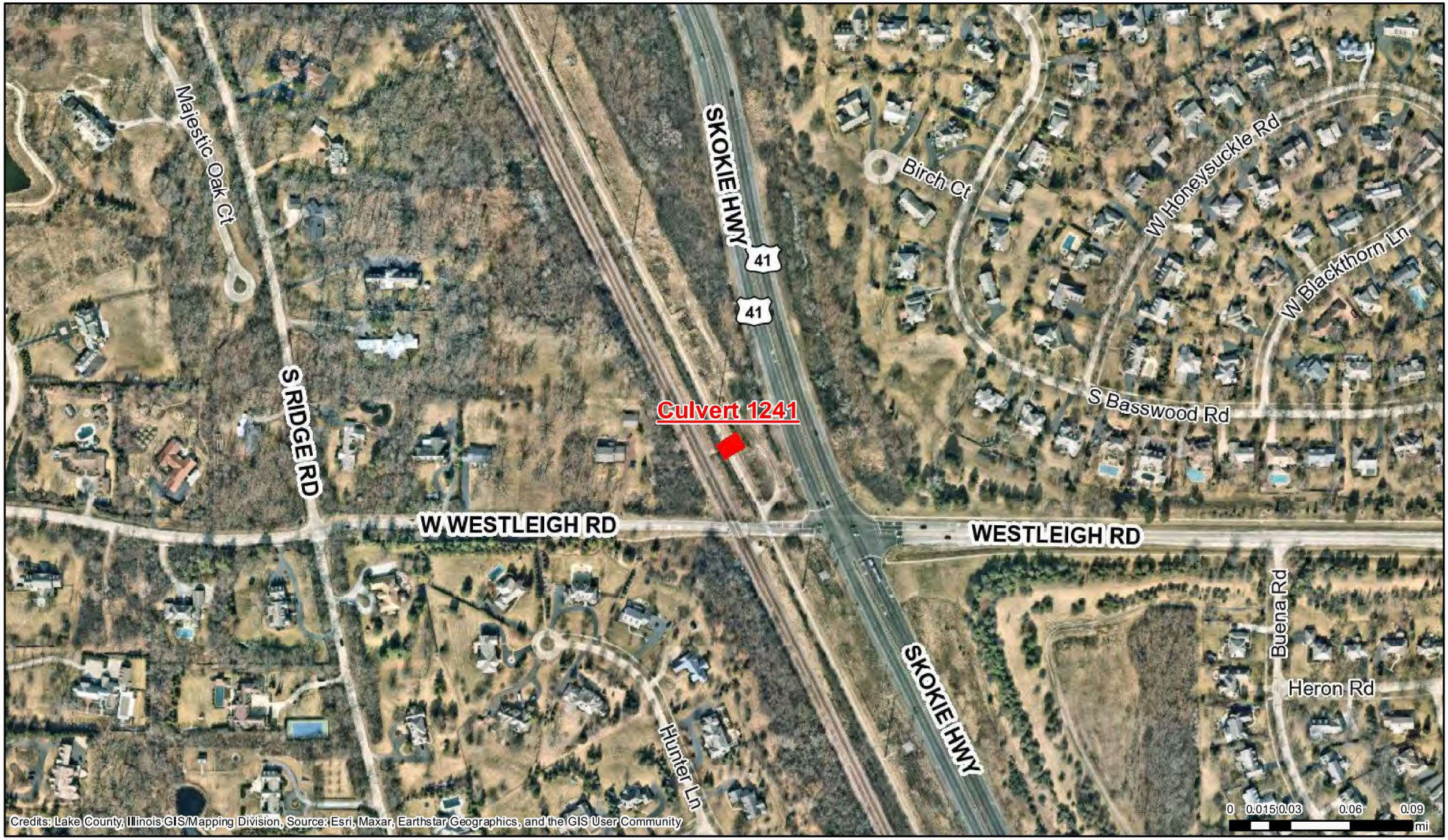
N

LCDOT GIS
8/10/2022

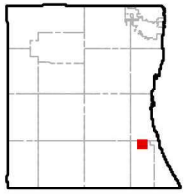
LakeCounty
Division of Transportation

Exhibit "A"

Culvert 1241 (SVBP) Location Map



Culvert 1241 Skokie Valley Bike Path (North of Westleigh Road)
36" Concrete Pipe - Installed 1994
Headwall to No End Section
Rated 3 (Poor) Joints are pulling apart and backfill is falling into the pipe (2022)
There are sink holes east of the path (in vegetated area)



N

LCDOT GIS
8/10/2022

LakeCounty
Division of Transportation

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Lake County Department of Transportation	Lake	

Prime Consultant (Firm) Name	Prepared By	Date
Ciorba Group, Inc.	Eddie Gaytan	4/4/2023

Consultant / Subconsultant Name	Job Number
Sanchez & Associates P.C.	

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	12	MONTHS	OVERHEAD RATE	79.62%
START DATE	6/5/2023		COMPLEXITY FACTOR	
RAISE DATE	1/1/2024		% OF RAISE	2.00%
END DATE	6/4/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	6/5/2023	1/1/2024	7	58.33%
1	1/2/2024	6/1/2024	5	42.50%

The total escalation = 0.83%

Local Public Agency	County	Section Number
Lake County Department of Transportati	Lake	

Consultant / Subconsultant Name	Job Number
Sanchez & Associates P.C.	

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	**86.00**
ESCALATION FACTOR	**0.83%**

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
SUE Project Manager	$57.70	$58.18
Sr. SUE Manager	$47.70	$48.10
CADD Technician III	$34.75	$35.04
Survey Crew Chief III	$39.85	$40.18
SUE Technician II	$25.50	$25.71
Survey Instrument II	$26.95	$27.17
Office Administration	$24.24	$24.44

Local Public Agency	County	Section Number
Lake County Department of Transportatio	Lake	

Consultant / Subconsultant Name	Job Number
Sanchez & Associates P.C.	

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
Total	**0.00**	**0.00**

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

Local Public Agency
Lake County Department of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
Sanchez & Associates 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	6	$65.00	$390.00
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)	1	$40.00	$40.00
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
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			$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:	**$430.00**

Local Public Agency
Lake County Department of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
Sanchez & Associates P.C.

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 79.62%

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
SUE Level B	195	48	1,771	1,410	477		3,658	41.20%
Survey	195	48	1,617	1,287	436		3,340	37.62%
QA/QC		6	349	278	94		721	8.12%
Office Administration	40	3	73	58	20		151	1.70%
CADD		8	280	223	76		579	6.52%
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Subconsultant DL							-$0.26	0.00%
Direct Costs Total ===>	$430.00						$430.00	4.84%
TOTALS		113	4,090	3,256	1,103	-	8,879	100.00%

7,346

BLR 05514 (Rev. 02/09/23)

COST EST

Printed 4/4/2023 2:47 PM

The subconsultant fee has been adjusted due to 15% fixed f

Local Public Agency
Lake County Department of Transportation

County
Lake

Section Number

Consultant / Subconsultant Name
Sanchez & Associates P.C.

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			SUE Level B			Survey			QA/QC			Office Administration			CADD		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
SUE Project Manager	58.18	6.0	5.31%	3.09							6	100.00%	58.18						
Sr. SUE Manager	48.10	24.0	21.24%	10.22	24	50.00%	24.05												
CADD Technician III	35.04	8.0	7.08%	2.48													8	100.00%	35.04
Survey Crew Chief III	40.18	24.0	21.24%	8.53				24	50.00%	20.09									
SUE Technician II	25.71	24.0	21.24%	5.46	24	50.00%	12.86												
Survey Instrument II	27.17	24.0	21.24%	5.77				24	50.00%	13.59									
Office Administration	24.44	3.0	2.65%	0.65										3	100.00%	24.44			
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TOTALS		113.0	100%	$36.20	48.0	100.00%	$36.91	48.0	100%	$33.68	6.0	100%	$58.18	3.0	100%	$24.44	8.0	100%	$35.04