



DATE: November 4, 2024

MEMO TO: Paras Parekh, Chair
Planning Committee

FROM: Pati Vitt
Director of Natural Resources

RECOMMENDATION: Recommend approval of a Resolution approving an Intergovernmental Agreement with the Lake County Stormwater Management Commission (SMC) to undertake a Water Quality and Compensatory Storage Project at Rollins Savanna Forest Preserve, funded by SMC in the amount of \$908,739.00 utilizing American Rescue Plan Act Funds.

STRATEGIC DIRECTIONS SUPPORTED: Conservation; Organizational Sustainability

FINANCIAL DATA: Approving this Agreement will provide the opportunity for the Stormwater Management Commission (SMC) to construct a nature-based stormwater bioretention green infrastructure basin at the downstream end of Mill Creek within the confines of Rollins Savanna Forest Preserve for the purposes of decreasing sedimentation and increasing water quality in Third Lake and to provide compensatory storage for future road work along North Linden Avenue in Avon Township. SMC will fully fund the design, construction, and implementation of this project, and \$908,739.00 in American Rescue Plan Act (ARPA) funds has been allocated and approved for this purpose. As proposed, the District is not required to provide a matching contribution. The proposed compensatory storage will be designed and implemented in a manner that will provide infrastructure to expand the capacity of the Native Seed Nursery to produce emergent wetland plants, an overall benefit to the District.

BACKGROUND: In March of 2023, the Village of Third Lake approached the District, and subsequently SMC, to discuss the issue of sediment flowing into Third Lake via Mill Creek – also known as Third Lake Channel Slough and/or the Avon/Fremont Ditch – as it traverses District property north of Washington Street, just adjacent to Linden Lane. SMC and the District agreed that water quality could be improved by in-stream restoration efforts along Mill Creek. Further, SMC had identified a future need for compensatory storage in the same project area for planned roadway upgrades along North Linden Avenue.

With agreement from District staff, SMC retained the services of Hey & Associates to perform an engineering study to provide bank stabilization and in-stream features to reduce sedimentation, and to implement a “scrape” in a portion of the existing cattail monoculture on the east side of Linden Avenue to provide the necessary compensatory storage. District staff proposed that the concept of the scraped area be expanded from depressional water storage to an enhanced wetland plant production area as well as creation of hemi-marsh to support migratory bird populations. The project design includes these elements, as well as protective fencing for the wetland plant production area and a gravel access area, and the District will have the right to review and approve the final project plans prior to construction. On August 2, 2024, the F&A Special Committee on COVID-19 Pandemic Recovery and Investment of the Lake County Board approved ARPA funds in the amount of \$908,739.00 to implement this project.

REVIEW BY OTHERS: Director of Finance, Chief Operations Officer, Manager of Board Operations, and Corporate Counsel.

**LAKE COUNTY FOREST PRESERVE DISTRICT
LAKE COUNTY, ILLINOIS**

**A RESOLUTION APPROVING AN INTERGOVERNMENTAL AGREEMENT WITH
THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION FOR
A WATER QUALITY AND COMPENSATORY STORAGE PROJECT AT
ROLLINS SAVANNA FOREST PRESERVE**

WHEREAS, under Article 7, Section 10 of the Constitution of the State of Illinois, units of local government, such as the Lake County Stormwater Management Commission (the “SMC”) and the Lake County Forest Preserve District (the “District”) are authorized to contract or otherwise associate among themselves, to obtain or share services and to exercise, combine, or transfer any power or function, in any manner not prohibited by law; and

WHEREAS, under the Intergovernmental Cooperation Act, 5 ILCS 220/1 *et seq.*, public agencies, such as the SMC and the District, may enter into intergovernmental agreements to exercise, combine, transfer, and enjoy jointly their powers, privileges, functions, or authority in any manner not prohibited by law; and

WHEREAS, the SMC and the District jointly desire to improve water quality, restore District lands, and provide compensatory stormwater storage; and

WHEREAS, it is in the best interests of the District to enter into an intergovernmental agreement with the SMC, in substantially the form attached hereto, (the "Intergovernmental Agreement") under which (i) the SMC will complete design, construction, and implementation of nature-based stormwater bioretention green infrastructure basins at the downstream end of Mill Creek within the Rollins Savanna Forest Preserve (the “Project”), and (ii) the Project will be fully funded by SMC utilizing American Rescue Plan Act (ARPA) funds that have been allocated and approved for such purposes; and

WHEREAS, the Project will be completed in cooperation with the District and in compliance with District restoration standards, will decrease sedimentation and improve water quality within Third Lake, and will increase the capacity of the District to propagate emergent wetland plants for use in its many wetland restoration projects; and

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Lake County Forest Preserve District, Lake County, Illinois **THAT**:

Section 1. Recitals. The recitals set forth above are incorporated as a part of this Resolution by this reference.

Section 2. Approval of Intergovernmental Agreement. The Intergovernmental Agreement is hereby approved in substantially the form attached hereto.

Section 3: Execution of Agreement. The President and Secretary of the District are authorized to execute and attest to the Intergovernmental Agreement in substantially the form attached hereto.

Section 4. Effective Date. This Resolution shall be in full force and effect from and after its passage and approval in the manner provided by law.

PASSED this _____ day of _____, 2024

AYES:

NAYS:

APPROVED this _____ day of _____, 2024

Angelo D. Kyle, President
Lake County Forest Preserve District

ATTEST:

Julie Gragnani, Secretary
Lake County Forest Preserve District

Exhibit No. _____

**INTERGOVERNMENTAL AGREEMENT BETWEEN THE LAKE COUNTY STORMWATER
MANAGEMENT COMMISSION AND THE LAKE COUNTY FOREST PRESERVE DISTRICT
FOR WATER QUALITY ENHANCEMENT AND COMPENSATORY STORAGE AT ROLLINS
SAVANNA FOREST PRESERVE**

THIS INTERGOVERNMENTAL AGREEMENT (hereinafter the “Agreement”) is entered into as of _____, 2024 by and between the Lake County Stormwater Management Commission, a unit of local government and body politic existing under the laws of the State of Illinois, (hereinafter “SMC”) and the Lake County Forest Preserve District, a body politic and corporate organized and existing under the Downstate Forest Preserve District Act, 70 ILCS 805/0/001 et seq. (hereinafter “LCFPD”) (collectively the “Parties”).

RECITALS

WHEREAS, Section 10 of Article VII of the Illinois Constitution of 1970 and the Illinois Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq., enable the Parties to enter into agreements among themselves and provide authority for intergovernmental cooperation; and

WHEREAS, LCFPD owns and maintains certain property commonly known as the Rollins Savanna Forest Preserve, which is generally depicted in Exhibit A (the “Property”), which includes portions of Third Lake and Mill Creek; and

WHEREAS, the Parties jointly desire to undertake a project to improve water quality, reduce sedimentation in Third Lake, improve stormwater management through compensatory storage, and restore wetlands by in-stream restoration efforts along Mill Creek, which project will specifically include implementing nature-based stormwater bioretention green infrastructure basins (wetland scrapes) along portions of Mill Creek within the Property (the “Mill Creek Water Quality Enhancement Project” or “Project”), all as more specifically depicted in the plans attached as Exhibit C (the “Plans”); and

WHEREAS, SMC has allocated, and the Special Committee on Covid-19 Pandemic Recovery and Investment of the Lake County Board has approved, \$908,739.00 in funds available under the American Rescue Plan Act (“ARPA”) to design, construct, and implement the Project; and

WHEREAS, the Parties agree that SMC shall be the responsible entity to design, bid, manage, and implement the Project in accordance with this Agreement, and for such purposes LCFPD will grant SMC a license, as provided herein, over the approximately 85-acre portion of the Property generally depicted on Exhibit B (the “Licensed Premises”); and

WHEREAS, the Parties agree that LCFPD shall have no obligation to fund the design, construction, or implementation of the Project, but LCFPD shall have the right to final approval of the Project design in accordance with this Agreement and shall be responsible to maintain, improve, and repair the Project after its completion by SMC, all as further set forth herein; and

WHEREAS, the Parties desire to enter into this Agreement to set forth their respective rights and responsibilities in relation to the Project, and the Parties agree that the Project will

provide a public benefit by improving water quality, reducing sedimentation into Third Lake, restoring wetlands, and providing compensatory storage to improve stormwater management;

NOW THEREFORE, in consideration of the matters set forth, the mutual covenants and agreements contained in this agreement and other good and valuable consideration, SMC and LCFPD hereby agree as follows:

Article 1. Incorporation of Recitals.

The recitals set forth above are incorporated herein by reference and made a part hereof.

Article 2. Scope of Work; Project Design and Implementation.

1. SMC shall cause to be prepared construction drawings, specifications, and details (hereinafter the "Construction Documents") for the Project that are consistent with the Plans. The parties acknowledge that SMC has retained Hey & Associates to provide engineering, design, and consultant services, as well as assist with the bidding and permitting process and construction management for the Project.
2. The Parties agree that the Project will establish nature-based stormwater bioretention green infrastructure that will consist of the construction of restoration features for the purpose of habitat restoration, water quality improvement, and flood mitigation as generally depicted on the Plans and to be more specifically detailed in the Construction Documents. Specific features include wetland scrapes, bank stabilization, and in-stream habitat features as well as site access and restoration along downstream portions of Mill Creek within the Licensed Premises.
3. Before undertaking any work on the Licensed Premises, SMC shall provide LCFPD with a copy of the complete Construction Documents for LCFPD's review, comment, and approval. LCFPD shall review and provide comments or approval to SMC in writing within 14 days of receipt of the complete Construction Documents. The Construction Documents shall include invasive species mitigation and control measures as reasonably specified by LCFPD.
4. SMC, at its sole cost and expense, shall bid, manage, construct, and implement the Project in accordance with the final Construction Documents and all applicable laws.
5. SMC, at its sole cost and expense, shall monitor and maintain all Project improvements within the Licensed Premises until the later of (i) December 31, 2026 or (ii) completion of the Project construction and implementation, including expending all contracted herbicide task hours (the "Expiration Date").
6. LCFPD, at its sole cost and expense, shall have the responsibility to monitor and maintain all Project improvements after the Expiration Date.
7. SMC and LCFPD shall cooperate to determine mutually acceptable performance monitoring and reporting standards for the Project.

Article 3. Work.

1. SMC, its contractors, and any of its third-party agents, shall construct all Project improvements and complete all work on the Licensed Premises (the "Work"), in a good and workmanlike manner, at no cost to LCFPD, in accordance with this Agreement and all applicable laws. Without limiting the preceding sentence, SMC, at no cost to LCFPD, shall perform any required maintenance and monitoring Work until the Expiration Date, at which point LCFPD shall assume all future management and maintenance obligations.
2. SMC may cause any portion of the Work to be performed by a contractor (a "Work Contractor") but only if and after (i) SMC has entered into a written contract with such Work Contractor (a "Work Contract") in which the Work Contractor agrees to comply with all of SMC's obligations under Articles 3 (Work), 5 (Licensed Premises Restrictions), 13 (Insurance and Liens), 15 (Indemnification), 24 (Notices), and 25 (Termination) of this Agreement, and (ii) LCFPD has first had an opportunity to review the Work Contract. Even if SMC enters into a Work Contract, SMC is not relieved of its obligation to perform the Work in accordance with, and to otherwise comply with, this Agreement.

Article 4. License.

1. LCFPD hereby grants to SMC a license (the "License") to use the Licensed Premises for the purpose of designing, constructing, managing, and implementing the Project in accordance with this Agreement. The License shall include reasonable rights of ingress and egress to the Licensed Premises from a public roadway in location(s) specified by LCFPD.
2. SMC acknowledges that (i) the Licensed Premises are, and will remain at all times, the property of LCFPD, (ii) this Agreement grants contractual license rights only and does not create an easement, a leasehold, or any other real property rights, and (iii) LCFPD shall retain legal possession and control over the Licensed Premises. LCFPD represents that its purposes in entering into this Agreement are as set forth in this Agreement, and that this Agreement provides for intergovernmental cooperation for the completion of the Project on the Licensed Premise for the benefit of the public and for the furtherance of LCFPD's statutory mission, all of which is reasonably related to the purposes for which LCFPD was created. Therefore, the Parties agree that this agreement grants a license pursuant to Section 7b of the Downstate Forest Preserve District Act, 70 ILCS 805/7b.

Article 5. Licensed Premises Restrictions.

Any activity in or use of the Licensed Premises by SMC that is inconsistent with this Agreement is prohibited. Without limiting the generality of the foregoing, the following activities and uses are expressly prohibited in, on, over, or under the Licensed Premises:

1. Structures. Except for the construction of Project improvements in conformity with the approved Construction Documents, the construction of other man-made structures including, but not limited to, the construction, removal, placement, preservation, maintenance or alteration of any buildings, roads, utility lines, billboards, or other advertising.

2. Demolition. Except as expressly provided in the Construction Documents, the demolition or removal of existing structures, fences, or other improvements, if any, within the Licensed Premises.
3. Waste or Debris. The storage, dumping, depositing, abandoning, discharging, or releasing of any gaseous, liquid, solid, or hazardous waste substance, materials or debris of whatever nature on, in, over, or underground or into surface or ground water.
4. Restricted Public Access. Interference with public access to the Property, except that during construction of the Project, LCFPD and SMC shall cooperate as needed to limit or prohibit general public access to construction areas and/or areas designated as sensitive areas.
5. Removal of Vegetation. The mowing, cutting, pruning, removal, disturbance, destruction, or collection of any trees, shrubs, or other vegetation, except in accordance with the Construction Documents or as otherwise approved by the District for:
 - a. safety;
 - b. control in accordance with accepted scientific forestry management practices for diseased or dead vegetation;
 - c. control of non-native species and noxious weeds; or
 - d. scientific nature study.
6. Other. Other acts, uses, excavation, or discharges, which adversely affect fish or wildlife habitat or the preservation of lands, waterways, or other natural resources located within the Licensed Premises.

Article 6. Reserved Rights.

1. This Agreement will not prevent LCFPD from using the Property or the Licensed Premises in any manner that is not inconsistent with this Agreement.
3. This Agreement will not prevent LCFPD from undertaking any future necessary or desired maintenance, repair, or enhancements to the Licensed Premises.

Article 7. Permits and Fees.

SMC, or its agent or designee, shall obtain all federal, state, and County permits, consents, and approvals, if any, required by law for the construction of the Project and shall assume any and all costs incurred in procuring such permits, consents, and approvals.

Article 8. Ownership.

1. Upon completion of the Project, LCFPD will own all Project improvements constructed or installed upon the Licensed Premises.

2. Nothing in this Agreement shall be construed as granting SMC any real property interest or ownership interest over the Project improvements, the Licensed Premises, or the Property.

Article 9. Schedule of Construction.

SMC shall put the Project out for bid in 2024, begin construction of the Project in 2025, and complete all Work by December 31, 2026. The Construction Documents to be prepared and submitted by SMC for LCFPD's review and approval shall include a detailed construction schedule for the Project.

Article 10. Effective Date.

This Agreement shall be effective as of the date that the latest date set forth on the signature pages affixed hereto.

Article 11. Non-Assignment.

No party may assign its rights or obligations hereunder without the written consent of the other party.

Article 12. Waiver of Personal Liability.

No official, employee, or agent of any party to this Agreement shall be charged personally by the other party with any liability or expenses of defense incurred as a result of the exercise of any rights, privileges, or authority granted herein, nor shall he or she be held personally liable under any term or provision of this Agreement, or because of a party's execution or attempted execution of this Agreement, or because of any breach of this Agreement.

Article 13. Insurance and Liens.

1. SMC shall procure and maintain, at all times until the Expiration Date or during which SMC is present on the Licensed Premises, at SMC's sole cost and expense, commercial general liability insurance naming LCFPD as an additional insured with combined limits of not less than \$1,000,000.00 per occurrence for bodily injury (including death) and property damage, and \$2,000,000.00 aggregate (Umbrella/Excess coverage can be used in combination with primary general liability to satisfy this requirement), and shall furnish evidence of such insurance coverage by way of certificates of insurance which shall provide for thirty (30) days' notice of cancellation. All policies shall provide a waiver of subrogation in favor of LCFPD and its affiliates. SMC shall require its Work Contractors and its agents, engineers, representatives, and contractors performing any work or services upon the Licensed Premises to procure and maintain commercial general liability insurance in commercially reasonable amounts (not to exceed the amounts set forth hereinabove) until completion of their respective work or services, naming LCFPD and its affiliates and SMC, respectively, as additional insureds and complying with all other requirements of this provision. Certificates of such insurance, in form reasonably satisfactory to LCFPD, shall be delivered to SMC and forwarded by SMC to LCFPD.

2. In exercising its rights under this Agreement, SMC shall comply with all applicable laws and shall not permit any liens to attach to the Licensed Premises. Should any such liens be filed against or attach to the Licensed Premises, SMC shall cause them to be removed of record and fully discharged at SMC's sole cost and expense within ten (10) days following notice thereof to SMC.

Articles 14. Damages to LCFPD property.

The Work shall be confined entirely to the Licensed Premises. If the Property or any other property of LCFPD is damaged by SMC, its Work Contractors, or any other of SMC's agents, engineers, representatives, and contractors, then SMC shall repair and restore the damaged property to its condition prior to such damage. The Parties acknowledge that reasonable and normal wear, tear, and erosion do not constitute "damage".

Article 15. Indemnification.

1. SMC shall defend, indemnify, and hold harmless LCFPD and its commissioners, officers, engineers, attorneys and other agents (hereinafter a "LCFPD Indemnified Party") from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorneys' fees and disbursements), claims, demands, actions, suits, proceedings, judgments or settlements, any or all of which are asserted by any individual, private entity, or public entity against any LCFPD Indemnified Party and arise out of or are in any way related to: (1) SMC's performance or exercise of any of its obligations, rights, privileges, or authority under this Agreement, or (2) SMC's design, management, or construction of the Project.
2. LCFPD shall defend, indemnify, and hold harmless SMC and its commissioners, officers, engineers, attorneys and other agents (hereinafter a "SMC Indemnified Party") from liabilities of every kind, including losses, damages and reasonable costs, payments and expenses (such as, but not limited to, court costs and reasonable attorneys' fees and disbursements), claims, demands, actions, suits, proceedings, judgments or settlements, any or all of which are asserted by any individual, private entity, or public entity against any SMC Indemnified Party and arise out of or are in any way related to LCFPD's performance or exercise of any of its obligations, rights, privileges, or authority under this Agreement.

Article 16. Disclaimers.

This Agreement is not intended, nor shall it be construed, to confer any rights, privileges, or authority not permitted by Illinois law. Nothing in this Agreement shall be construed to establish a contractual relationship between any of the Parties and any third party not otherwise a party to this Agreement.

Article 17. Waivers.

Whenever a party to this Agreement by proper authority waives the other party's performance in any respect or waives a requirement or condition to performance, the waiver so granted, whether express or implied, shall only apply to the particular instance and shall not be deemed a waiver

for subsequent instances of the performance, requirement, or condition. No such waiver shall be construed as a modification of this Agreement regardless of the number of times the performance, requirement, or condition may have been waived.

Article 18. Severability.

If any provision of this Agreement is held to be invalid, illegal, or unenforceable, such invalidity, illegality, or unenforceability will not affect any other provisions of this Agreement, and this Agreement will be construed as if such invalid, illegal, or unenforceable provision has never been contained herein. The remaining provisions will remain in full force and will not be affected by the invalid, illegal, or unenforceable provision or by its severance. In lieu of such illegal, invalid, or unenforceable provision, there will be added automatically as part of this Agreement a provision as similar in its terms to such illegal, invalid, or unenforceable provision as may be possible and be legal, valid, and enforceable.

Article 19. Necessary Documents.

Each party agrees to execute and deliver all further documents and take all further action reasonably necessary to effectuate the purpose of this Agreement.

Article 20. Deemed Inclusion.

Any provisions required (as of the effective date) by law, ordinances, rules, regulations, or executive orders to be inserted in this Agreement are deemed inserted in this Agreement whether or not they appear in this Agreement or, upon application by either party, this Agreement will be amended to make the insertions; however, in no event will the failure to insert such provisions before or after this Agreement is signed prevent its enforcement.

Article 21. Entire Agreement.

This Agreement, and any exhibits or riders attached hereto, shall constitute the entire agreement between the Parties. No other warranties, inducements, considerations, promises, or interpretations shall be implied or impressed upon this Agreement that are not expressly set forth herein.

Article 22. Amendments.

This Agreement shall not be amended unless it is done so in writing and signed by the authorized representatives of each of the Parties.

Article 23. Judicial and Administrative Remedies.

The parties agree that this Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of Illinois, without reference to its choice of law provisions. The parties further agree that the proper venue to resolve any dispute which may arise out of this Agreement is the appropriate Court of competent jurisdiction located in Lake County, Illinois.

Article 24. Notices.

All notices required or permitted hereunder shall be in writing, and delivered either personally or by certified or registered mail, return receipt requested, to the following addresses or sent by electronic mail ("e-mail") to the following contact addresses:

If to Lake County Stormwater Management Commission:

Michelle Pope, Project Manager
Lake County Stormwater Management Commission
500 W. Winchester Road
Libertyville, IL 60048
Phone: 847-377-7700
Email: mpope@lakecountyil.gov

If to Lake County Forest Preserve District:

Pati Vitt, Director of Natural Resources
Lake County Forest Preserve District
1899 W. Winchester Road
Libertyville, IL 60048
Phone: 847-968-3285
Email: pvitt@lcfpd.org

Each party agrees to promptly notify the other party of any change in its designated representative, which notice shall include the name, address, telephone number and fax number of the representative for such party for the purpose hereof.

Article 25. Termination.

Notwithstanding anything herein to the contrary, if SMC intentionally, willfully, or in a grossly negligent manner commits any act or does anything that damages the Licensed Premises or materially and adversely affects its ecological state, then LCFPD may, upon written notice to SMC, immediately terminate this Agreement and pursue any and all remedies available at law or equity, including a suit for damages.

Article 26. Miscellaneous.

1. This Agreement may be executed in multiple counterparts. The Parties agree that the electronic signature of a Party to this Agreement shall be as valid as an original signature of such Party and shall be effective to bind such Party to this Agreement.
2. Each Party agrees, and advises the other, to seek their own legal advice with respect to entering into this Agreement, and any particular issue or term related thereto. The Parties hereto acknowledge that the Parties and their counsel have reviewed and revised this Agreement and agree that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting Party shall not be employed in the interpretation of this Agreement or any exhibits or amendments hereto.
3. Time is of the essence in the performance of this Agreement.

4. If the day for performance of any obligation hereunder, or the last day of a particular time period provided for herein, falls on a Saturday, Sunday, or legal holiday recognized by national banks in Lake County, Illinois, such day for performance, and the expiration of such time period, as the case may be, shall be the next day which is not a Saturday, Sunday or such legal holiday.

[SIGNATURES ON FOLLOWING PAGE(S)]

IN WITNESS WHEREOF, the Lake County Stormwater Management Commission, and the Lake County Forest Preserve District, the parties hereto, have each caused this Agreement to be executed by their duly authorized officers, on the dates specified below.

LAKE COUNTY STORMWATER MANAGEMENT COMMISSION:

Kurt Woolford, Executive Director
Lake County Stormwater Management Commission

Date

LAKE COUNTY FOREST PRESERVE DISTRICT:

Angelo D. Kyle, President
Lake County Forest Preserve District

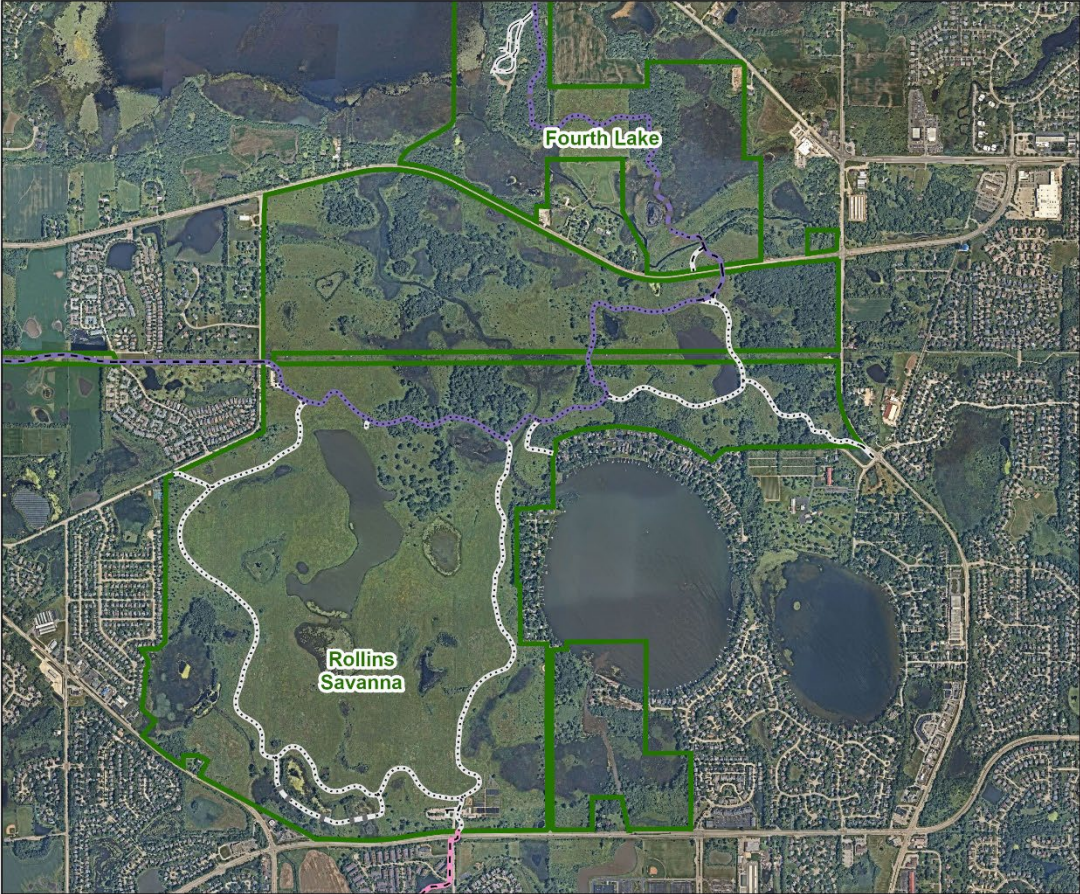
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Attest: _____
Julie Gagnani, Secretary
Lake County Forest Preserve District

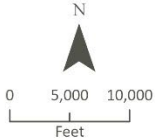
Date

EXHIBIT A
DEPICTION OF THE PROPERTY

Rollins Savanna Forest Preserve



Lake County
Forest Preserves

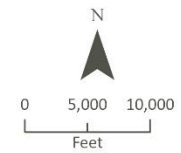
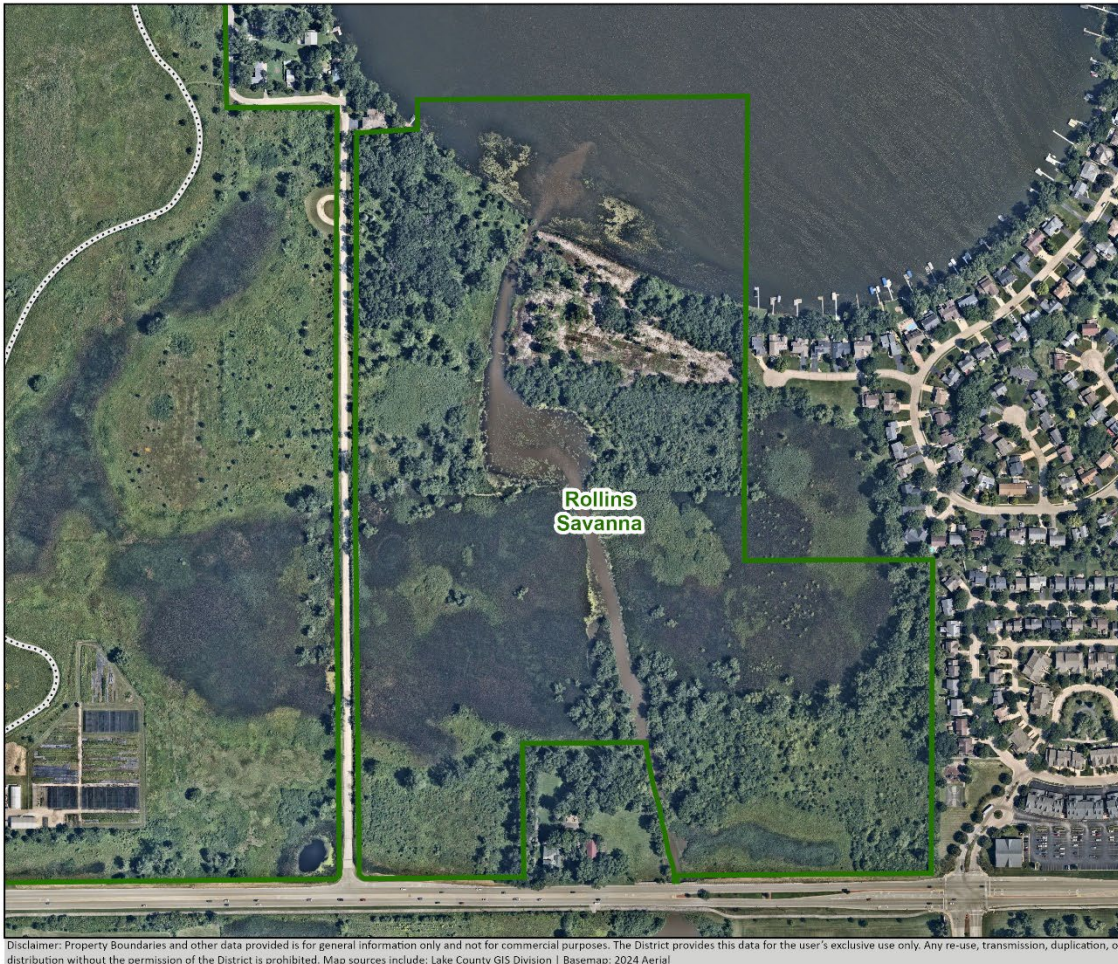


Map Printed on 10/31/2024

Disclaimer: Property Boundaries and other data provided is for general information only and not for commercial purposes. The District provides this data for the user's exclusive use only. Any re-use, transmission, duplication, or distribution without the permission of the District is prohibited. Map sources include: Lake County GIS Division | Basemap: 2024 Aerial

EXHIBIT B
DEPICTION OF THE LICENSED PREMISES

Mill Creek Project Area



Map Printed on 10/31/2024

GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS

- All construction shall be in accordance with the applicable sections of the following, except as modified herein or on the plans:
 - Standard Specifications for Road and Bridge Construction" (Latest Edition), by the Illinois Department of Transportation (IDOT) and "Supplemental Specifications and Requiring Special Provisions" (Latest Edition) for all improvements except for sanitary sewer, wastewater and plumbing construction;
 - Standard Specifications for Water and Sewer Main Construction in Illinois" (Latest Edition) (SSMIS) for sanitary and sewer main construction;
 - Village of Third Lake municipal code;
 - Lake County Wastewater Development Ordinance;
 - Illinois Plumbing Code;
 - International Mechanical Code;
 - In case of conflict between the applicable ordinances noted, the more stringent shall take precedence and shall control all construction.
- The Contractor shall examine all plans and specifications, visit the site of the work and inform themselves fully with the work involved, general and local conditions, all Federal, State and local laws, ordinances, rules and regulations and all other pertinent items which may affect the cost and time of completion of this project before submitting a proposal.
- Prior to submitting a bid and beginning construction, the Contractor shall verify the lines and grades shown on the plans. If there are any discrepancies from what is shown on the plans, the Contractor shall immediately report them to the Owner prior to performing the work. The Contractor shall be responsible for coordination of work as required.
- Prior to starting the bid, the Contractor shall call the attention of the Engineer to any material or equipment he deems inadequate and to any items of work omitted.
- Location of above and belowground utilities shown on plans are for information only and represent the best knowledge of the Engineer. Contractor shall make his own investigations as to location and elevation of all utilities, existing underground structures, cables and pipe lines prior to the start of construction operations.
- Existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer and Owner so that the conflict may be resolved.
- The Contractor shall notify the J.U.L.E. (911 or 1-800-800-0123) at least ten days prior to construction so that reach utility company can locate all underground construction. But they may have which might interfere with the proposed construction.
- The Contractor shall be responsible for providing the necessary protection of all existing private and public utilities in accordance with the affected utility company's requirements as may be required to perform the work. Any utility that is damaged during construction shall be repaired or replaced by the Contractor at their own expense to the satisfaction of the Engineer, Owner and/or utility company.
- The Contractor shall be required to make arrangements for the proper bracing, shoring and other required protection of all roadways, buildings, structures, poles, cables and pipe lines, before construction begins. Contractor shall be responsible for any damage to the site, streets, roadways, structures and shall make repairs as necessary to the satisfaction of the Engineer and Owner at the Contractor's own expense.
- The work performed under this contract shall in no way interfere with the normal operation of any existing utility service. The Contractor shall furnish all necessary items of equipment required to maintain such normal operations at the additional expense to the Owner.
- The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 1106 of the SSRBIC and the "Standard Specifications for Traffic Control Systems".
- The Contractor shall restore any area disturbed outside the construction site to a condition equal to or better than its original use. This shall include finish grading, establishment of a vegetative cover (seeding or sod), general cleanup and pavement replacement.
- All new and existing utility structures on site and in areas disturbed during construction shall be adjusted to final grade prior to final inspection. No additional compensation shall be paid for such adjustments shall be considered incidental.
- All trenches caused by the construction of sewers, service sewers, piping, utilities, and all excavation around catch basins, manholes, inlets and other appurtenances which occur within the limits of existing or proposed pavements, sidewalks and curb and gutters or within the edge of the trench shall be within two feet (2') of said improvements shall be backfilled with approved suitable select material and properly compacted.
- The Contractor shall be responsible for providing safe and healthful working conditions throughout the construction of the proposed improvements.
- The Contractor shall protect and carefully preserve all section or subsection monuments, lot lines, or other property or reference markers until the Engineer, his agent or an authorized surveyor has witnessed or otherwise referenced their location. Any damages shall be replaced by the Contractor and said cost of replacement shall be paid by the Contractor.
- The Contractor shall provide a written work schedule and shall update said schedule as required. A minimum twenty-four (24) hour notice shall be given for any item that requires approval or inspection.
- The Owner, Owner's Representative, municipality, or regulatory agency shall have the authority to inspect, approve and reject the construction improvements.
- Before acceptance by the Owner and final payment, all work shall be inspected and approved by the Engineer and Owner. Final payments shall be made after all of the Contractor's work has been approved and accepted.
- The Contractor is responsible for coordinating any required inspections with the Owner, Engineer and other agencies.
- If any approved equal items are proposed, the Contractor shall contact the Engineer

for written approval prior to use or installation.

- The Engineer and Owner are not responsible for the construction means, methods, techniques, sequences or procedures, time of performance, programs or for any safety precautions used by the Contractor. The Contractor is solely responsible for execution of his work in accordance with the contract documents and specifications.
- Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor.
- The Contractor will have in his possession on the job site a copy of the plans and specifications during construction.
- Special attention is drawn to the fact that Article 106.06 of the SSRBIC requires the Contractor to have a competent superintendent on the project site at all times irrespective of the amount of work to be performed. The superintendent shall be capable of reading and understanding the plans and specifications, shall have full authority to execute orders to expedite the project, shall be responsible for scheduling and time control of all work as the agent of the Contractor. Failure to comply with this provision will result in a suspension of work as provided in Article 108.07.
- Record drawings shall be kept by the Contractor and submitted to the Engineer within 30 days of completion of the project, or as mutually agreed upon by the Engineer. Final payments to the Contractor shall be held until they are received. Any changes in length, location or alignment shall be shown in red. All notes or bonds shall be located from the downstream manhole.
- The Contractor(s) shall indemnify the Owner, Engineer, Municipality and their agents, etc. from all liability involved with the construction, installation, or testing of work on the project.
- Contractor is responsible for all site layout, including verification of benchmarks provided within the plans if the Contractor identifies a discrepancy. It shall be brought to the attention of the Engineer immediately. Owner is not responsible for any work on the project required due to improper grade stakes or failure of Contractor to verify existing benchmarks.
- Any modifications of a design shall comply with the Illinois Drainage Code, and Section 35.77.

EARTHWORK AND GRADING CONSTRUCTION

All work done under this heading will be done in accordance with applicable provisions of the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022.

- Work under this section shall include, but not be limited to, the following:
 - Cleaning and removal of all undesirable vegetation growth within the construction area except as noted otherwise on the plans.
 - Placement and construction of structural and non-structural fills.
 - Movement and compaction of spoil material from the construction of underground utilities.
 - Final grading and trimming to the lines, grades and cross-sections shown in these plans, and topsoil placement to design finish grade elevations.
 - Soil erosion control measures in accordance with the applicable specifications and storm water requirements.
- Site fences as shown on the construction plans shall be erected prior to start of work.
- It is the Contractor's responsibility to determine all material quantities and the Contractor should be familiar with all site conditions. No claims for extra work will be recognized unless entered in writing by the Owner.
- The grading and construction of the site improvements shall not cause ponding of stormwater except as noted on the plans. All areas adjacent to these improvements shall be graded to allow positive drainage.
- The proposed grading elevations shown on the plans are finish grade. For all landscape areas, a minimum of six inches (6") of topsoil (4" in sodded areas) is to be placed before final grade elevations are achieved, except where noted otherwise.
- All disturbed areas to be seeded or planted as specified on the Restoration or Replanting Plans. Any disturbed areas not specified on the Restoration Plans shall be replanted in kind.
- Detailed drawings for any shoring and bracing shall be provided for review to the Owner's representative prior to implementation of the method. A trench box shall be available on the job site at all times and be utilized in accordance with OSHA standards.
- Subsoil excavated materials subject to the review of the Owner's representative may be used to backfill the excavated areas of the site, unless shown otherwise.
- No underground work shall be covered until it has been reviewed by Engineer.

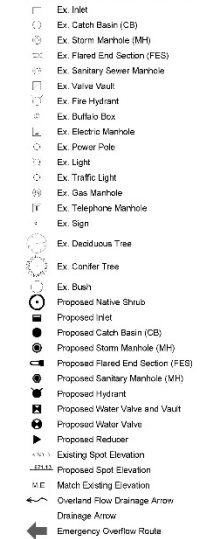
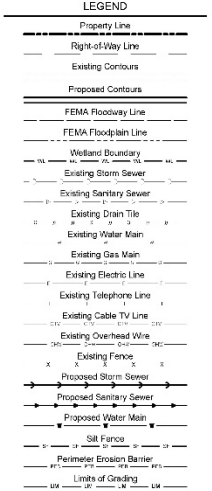
SURVEY

- All elevations shown on these plans are based upon the North American Vertical Datum of 1988 (NAVD 88).
- Where section or subsection monuments are encountered, the Engineer shall be notified before the monuments are removed. The Contractor shall carefully preserve all property marks and monuments until the Owner, authorized surveyor or agent has witnessed or otherwise referenced their location.

SOIL EROSION AND SEDIMENT CONTROL

All soil erosion and sedimentation control measures shall be in accordance with the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be controlled according to minimum standards and specifications in the Illinois Urban Manual revised June 2013.

- Following are the Lake County Stormwater Management Commission's Soil Erosion and Sediment Control Construction Notes:
 - Sediment control measures shall be installed prior to the commencement of hydrologic disturbance of upland areas.
 - For those developments that require a Designated Erosion Control Inspector (DECI), inspections and documentation shall be performed, at a minimum:
 - Upon completion of sediment and runoff control measures (including perimeter controls and diversions), prior to proceeding with any other earth disturbance or grading.
 - After every seven (7) calendar days or storm event with greater than 0.5 inch of rainfall or liquid equivalent precipitation.
 - Soil disturbance shall be conducted in such a manner as to minimize erosion. If stopping, clearing, grading, or landscaping are to be done in phases, the permits shall also be removed by sweeping or other clearing an accumulation warrant and transported to a controlled sediment disposal area.
 - Temporary diversions shall be constructed as necessary to direct all runoff from hydrologically disturbed areas to an appropriate sediment trap or basin.
 - Disturbed areas shall be stabilized with temporary or permanent measures within seven (7) calendar days following the end of active hydrologic disturbance or re-vegetation.
 - All stormwater shall have appropriate measures to prevent erosion. Stormwater shall not be placed in food prone areas or wetlands and designated buffers.
 - Slopes steeper than 3H:1V shall be stabilized with appropriate measures as approved by the Enforcement Officer.
 - N40 S70W or approved equal erosion control blanket shall be installed on all slopes steeper than 4H:1V following stabilization as shown on Landscape Plans.
 - Storm sewers that are or will be functioning during construction shall be protected by an appropriate sediment control measure.
 - If dewatering services are used, discharging properties and discharge locations shall be protected from erosion and sedimentation. Discharges shall be routed through an approved erosion polymer dewatering system or a similar measure as approved by the Enforcement Officer. Dewatering systems should be inspected daily during operational periods. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.
 - If installed soil erosion and sediment control measures do not minimize sediment leaving the development site, additional measures such as anionic polymers or filtration systems may be required by the Enforcement Officer.
 - All temporary and permanent erosion control measures must be maintained and repaired as needed. The property owner shall be ultimately responsible for maintenance and repair.
 - All temporary sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary measures are no longer needed.
 - The erosion control measures indicated on the plans are the minimum requirements. Additional measures may be required, as directed by the Engineer, Enforcement Officer, or other governing agency.
 - All adjacent streets must be kept clear of dirt and debris, inspected daily, and cleaned, when necessary.
 - All construction access shall be kept free of access other than off of N. Linden Avenue. Stabilized construction entrance shall be installed if directed by the Enforcement Officer or Engineer.



LEGEND

Property Line
Right-of-Way Line
Existing Contours
Proposed Contours
FEMA Floodway Line
FEMA Floodplain Line
Wetland Boundary
Existing Storm Sewer
Existing Sanitary Sewer
Existing Drain Tile
Existing Water Main
Existing Gas Main
Existing Electric Line
Existing Telephone Line
Existing Cable TV Line
Existing Overhead Wire
Existing Fence
Proposed Storm Sewer
Proposed Sanitary Sewer
Proposed Water Main
Silk Fence
Perimeter Erosion Barrier
Limits of Grading

LEGEND

Ex. Pit
Ex. Catch Basin (CB)
Ex. Storm Manhole (MH)
Ex. Flared End Section (FES)
Ex. Sanitary Sewer Manhole
Ex. Valve Vault
Ex. Fire Hydrant
Ex. Bulb Box
Ex. Electric Manhole
Ex. Power Pole
Ex. Light
Ex. Traffic Light
Ex. Gas Manhole
Ex. Telephone Manhole
Ex. Sign
Ex. Deciduous Tree
Ex. Conifer Tree
Ex. Bush
Proposed Native Shrub
Proposed Inlet
Proposed Catch Basin (CB)
Proposed Storm Manhole (MH)
Proposed Flared End Section (FES)
Proposed Sanitary Manhole (MH)
Proposed Hydrant
Proposed Water Valve and Vault
Proposed Water Valve
Proposed Reducer
Existing Spot Elevation
Proposed Spot Elevation
Match Existing Elevation
Overland Flow Drainage Arrow
Drainage Arrow
Emergency Overflow Route

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PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-002429

Mill Creek Water Quality Enhancement
Lake County, IL

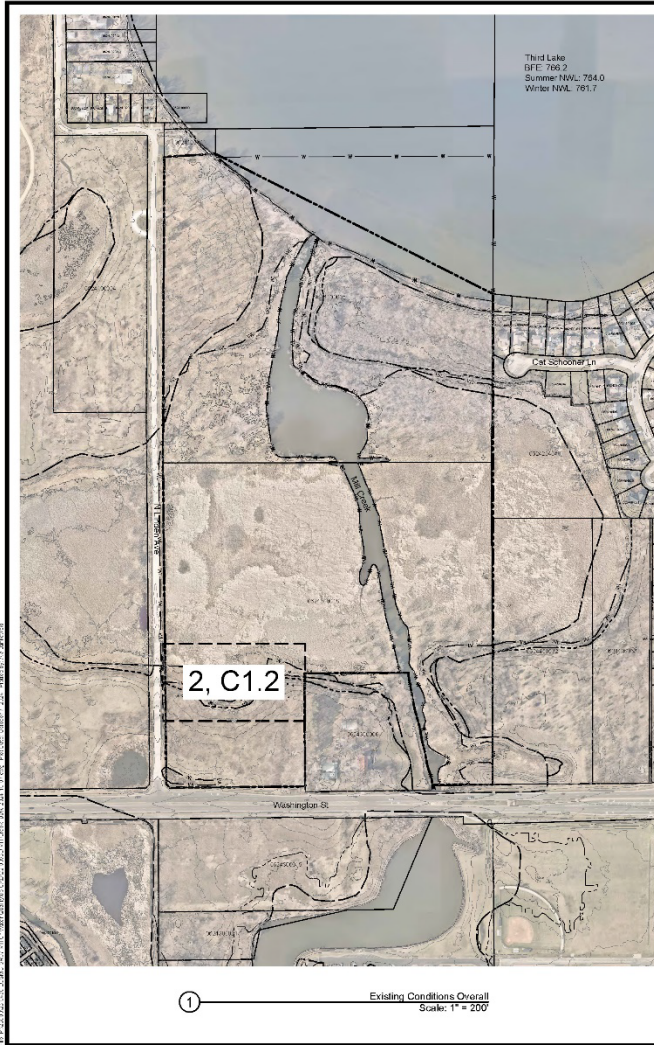
General Notes and Legend

PROJECT NO.	25044001	SHEET NO.	
DESIGNED BY	JAK	CHECKED BY	JAK
DRAWN BY	ATL/SPG	DATE	11/11/2024
CHECKED BY	JAK	PROJECT NO.	25044001
DRAWN BY	JAK	SHEET NO.	1 OF 12

C1.1

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ID	SCIENTIFIC NAME	COMMON NAME	DBH (in)
1	<i>Prunus serotina</i>	Black Cherry	9
2	<i>Celtis occidentalis</i>	Hackberry	8
3	<i>Prunus serotina</i>	Black Cherry	28
4	<i>Prunus serotina</i>	Black Cherry	12
5	<i>Ulmus americana</i>	American Elm	35
6	<i>Populus deltoides</i>	Eastern Cottonwood	25
7	<i>Populus deltoides</i>	Eastern Cottonwood	19
8	<i>Populus deltoides</i>	Eastern Cottonwood	29
9	<i>Populus deltoides</i>	Eastern Cottonwood	26
10	<i>Populus deltoides</i>	Eastern Cottonwood	22
11	<i>Acer spicatum</i>	Silver Maple	12
12	<i>Acer spicatum</i>	Silver Maple	7
13	<i>Populus deltoides</i>	Eastern Cottonwood	23
14	<i>Populus deltoides</i>	Eastern Cottonwood	33
15	<i>Populus deltoides</i>	Eastern Cottonwood	46
16	<i>Acer spicatum</i>	Silver Maple	24
17	<i>Acer spicatum</i>	Silver Maple	27
18	<i>Prunus serotina</i>	Black Cherry	6
19	<i>Prunus serotina</i>	Black Cherry	22
20	<i>Prunus serotina</i>	Black Cherry	14
21	<i>Prunus serotina</i>	Black Cherry	23
22	<i>Prunus serotina</i>	Black Cherry	12
23	<i>Acer spicatum</i>	Silver Maple	13
24	<i>Prunus serotina</i>	Black Cherry	16
25	<i>Prunus serotina</i>	Black Cherry	16
26	<i>Prunus serotina</i>	Black Cherry	6
27	<i>Prunus serotina</i>	Black Cherry	9
28	<i>Prunus serotina</i>	Black Cherry	9
29	<i>Acer spicatum</i>	Silver Maple	24
30	<i>Acer spicatum</i>	Silver Maple	8
31	<i>Prunus serotina</i>	Black Cherry	7
32	<i>Prunus serotina</i>	Black Cherry	10
33	<i>Prunus serotina</i>	Black Cherry	6
34	<i>Prunus serotina</i>	Black Cherry	6
35	<i>Prunus serotina</i>	Black Cherry	11
36	<i>Prunus serotina</i>	Black Cherry	25
37	<i>Prunus serotina</i>	Black Cherry	12
38	<i>Prunus serotina</i>	Black Cherry	8
39	<i>Prunus serotina</i>	Black Cherry	8
40	<i>Prunus serotina</i>	Black Cherry	10
41	<i>Prunus serotina</i>	Black Cherry	6
42	<i>Prunus serotina</i>	Black Cherry	8
43	<i>Prunus serotina</i>	Black Cherry	6
44	<i>Prunus serotina</i>	Black Cherry	8

0 200 400
Scale in Feet

LEGEND

- Project Boundary
- Parcel Boundary
- FEMA Floodplain - by Elevation
- FEMA Floodway
- Lake County Contours
- Surveyed Wetland Boundary
- Surveyed Waters Boundary
- Control Point
- Existing Deciduous Tree

No.	Revision/Issue	Date

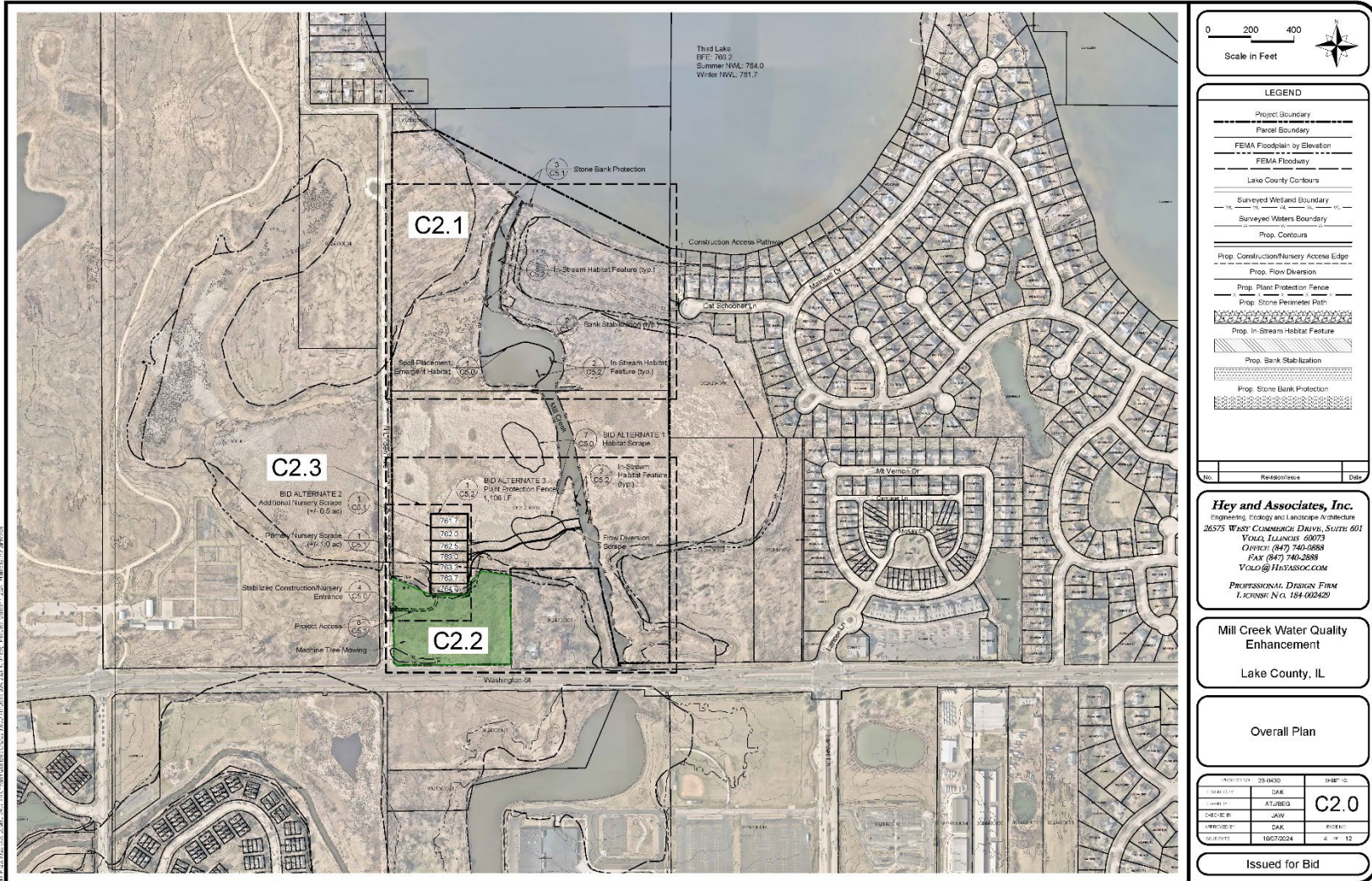
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OFFICE (847) 740-0888
FAX (847) 740-2888
VOL@HAYASOC.COM
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-002429

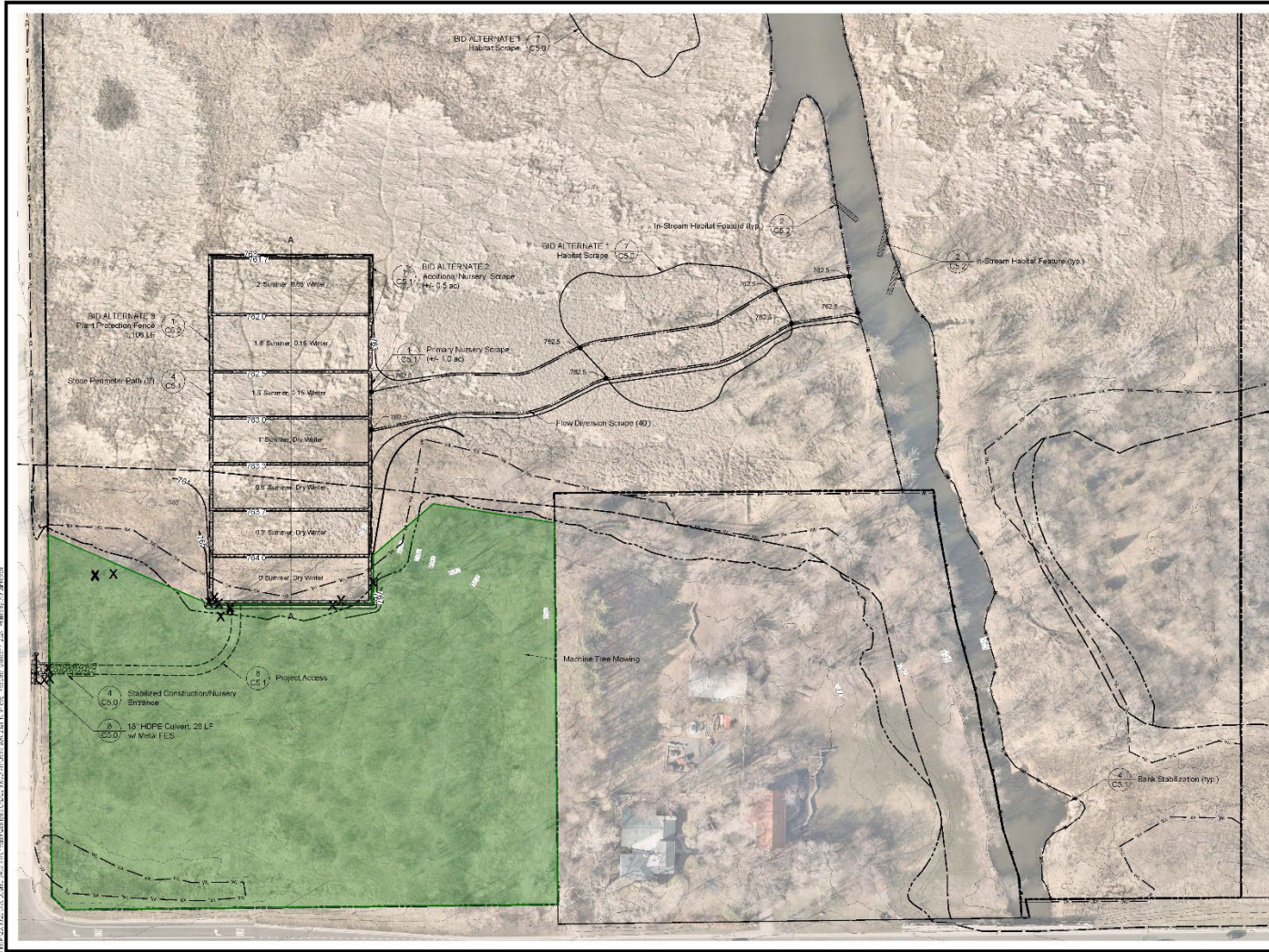
Mill Creek Water Quality Enhancement
Lake County, IL

Existing Conditions

PROJECT NO.	28-0430	SHEET NO.	C1.2
DRAWN BY	DAK	CHECKED BY	ATJ/REB
DESIGNED BY	DAK	APPROVED BY	
DATE PLOTTED	10/27/2024		

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0 50 100
Scale in Feet

LEGEND

- Project Boundary
- Parcel Boundary
- FEMA Floodplain by Elevation
- FEMA Floodway
- Lake County Contours
- Surveyed Wetland Boundary
- Surveyed Waters Boundary
- Prop. Contours
- Prop. Construction/Nursery Access Edge
- Prop. Flow Diversion
- Prop. Plant Protection Fence
- Prop. Stone Perimeter Path
- Prop. In-Stream Habitat Feature
- Prop. Bank Stabilization
- Machine Tree Mowing
- Existing Deciduous Tree
- Pr. Tree Removal

No.	Revision/Issue	Date

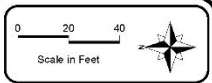
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Volo@HEYASOC.COM
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Mill Creek Water Quality Enhancement
Lake County, IL

South Area Plan

PROJECT NO.	DATE	SHEET NO.
16517-00001	05/04/20	0487-05
DESIGNED BY	DATE	C2.2
AT/BEG	JAN	
CHECKED BY	DATE	NOTED BY
DAK	DAK	DAK
ISSUED BY	DATE	SCALE
16517-00001	10/27/2024	8" = 1'

Issued for Bid



LEGEND

- Project Boundary
- Panel Boundary
- FEMA Floodplain by Elevation
- FEMA Floodway
- Lake County Contours
- Surveyed Wetland Boundary
- Surveyed Waters Boundary
- Prop. Contours
- Prop. Construction/Nursery Access Edge
- Prop. Flow Diversion
- Prop. Plant Protection Fence
- Prop. Stone Perimeter Path
- Machine Tree Mowing
- Existing Deciduous Tree
- Pr: Tree Removal

No.	Revision	Date

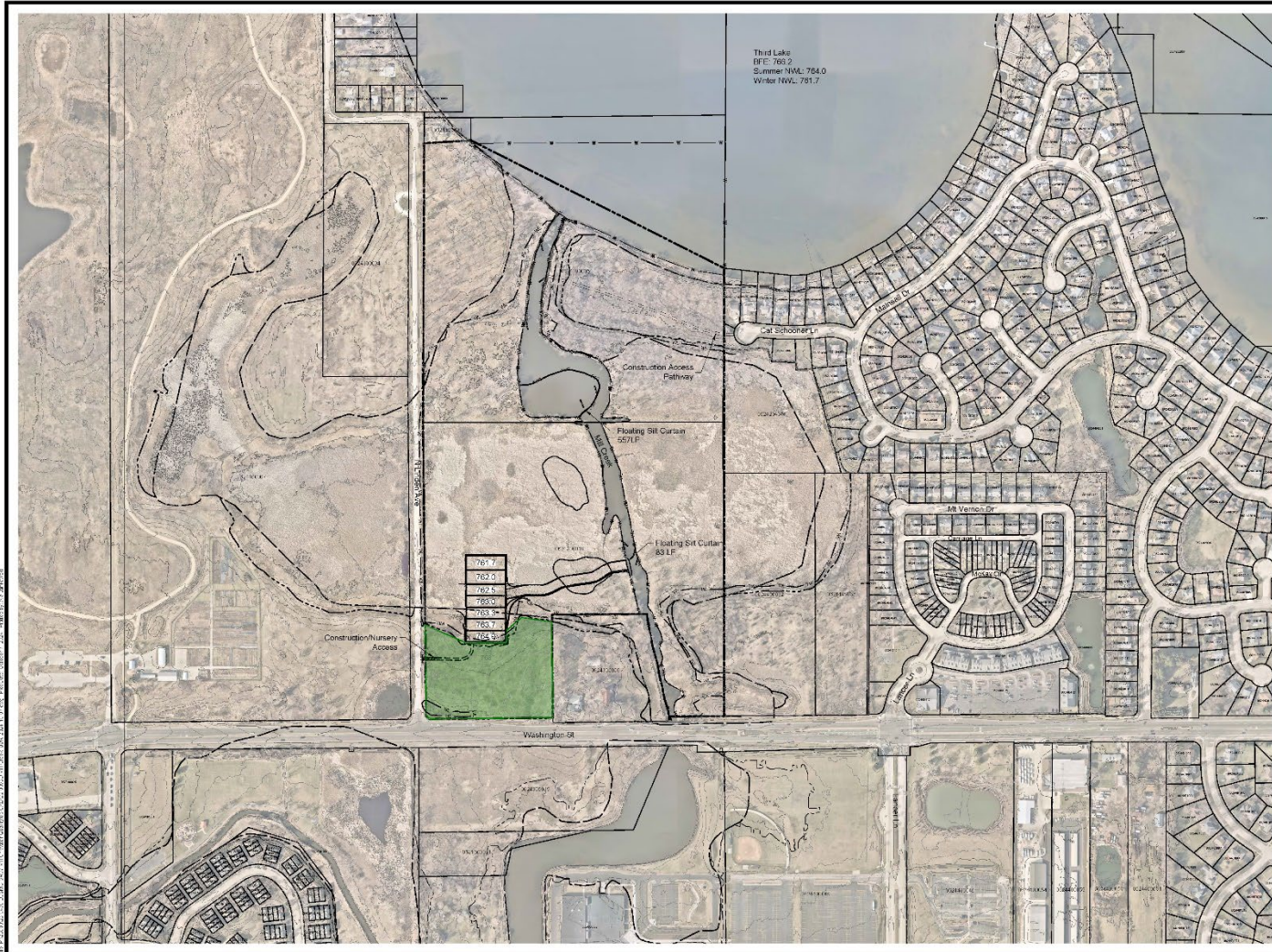
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 Lake County, IL

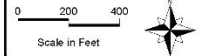
Proposed Nursery Scrape Enlargement

PROJECT NO.	28-0430	SHEET NO.	C2.3
DESIGNED BY	DAK	CHECKED BY	ATJ/BEIS
DRAWN BY	JAW	DATE	7/1/12
APPROVED BY	DAK	ISSUED	
DATE	10/07/2024		

Issued for Bid



Third Lake
 DFE: 765.0
 Summer NML: 764.0
 Winter NWL: 761.7



LEGEND

- Project Boundary
- Parcel Boundary
- FEMA Floodplain by Elevation
- FEMA Floodway
- Lake County Contours
- Surveyed Wetland Boundary
- Surveyed Waters Boundary
- Prop. Contours
- Prop. Construction/Nursery Access Edge
- Prop. Flow Diversion
- Prop. Floating Silt Curtain
- Prop. Temp. Construction Access Path

No. Revision Date

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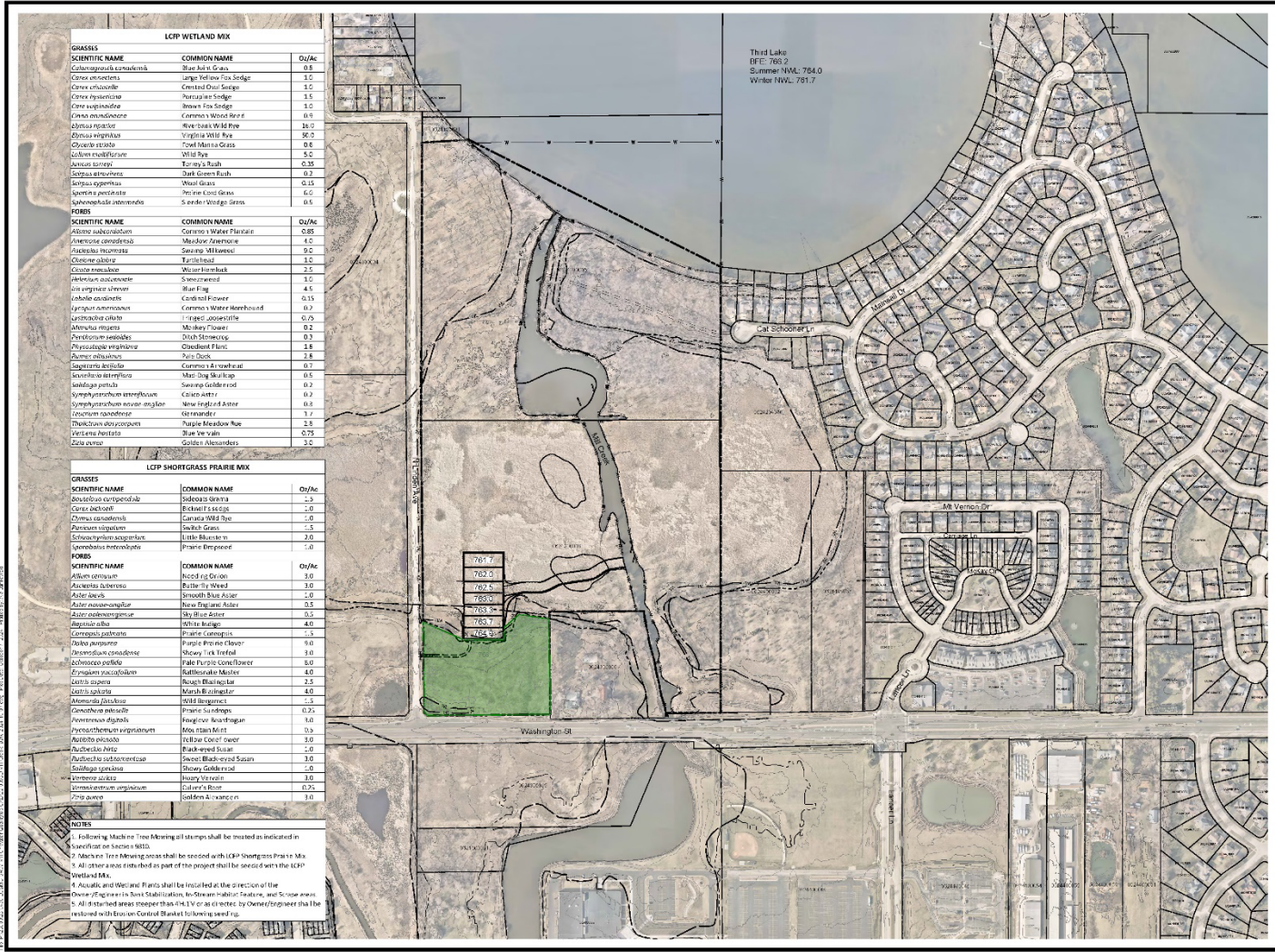
Mill Creek Water Quality Enhancement
 Lake County, IL

Soil Erosion and Sediment Control Plan

PROJECT NO.	28-0430	SHEET NO.	
DESIGNED BY	DAK	C3.0	
DRAWN BY	ATJ/REB		
CHECKED BY	JAN		
APPROVED BY	DAK		
DATE	10/27/2024		3 OF 12

Issued for Bid

DATE PLOTTED: 11/14/2024 10:57:46 AM



LCPW WETLAND MIX

SCIENTIFIC NAME	COMMON NAME	Q/Ac
<i>Calamagrostis canadensis</i>	Blue Joint Grass	0.8
<i>Carex acutostylis</i>	Large Yellow Fox Sedge	3.0
<i>Carex crinita</i>	Crested Owl Sedge	3.0
<i>Carex lasiocarpa</i>	Portulac Sedge	3.5
<i>Carex lasiocarpa</i>	Beaver Fox Sedge	3.0
<i>Carex muskoxensis</i>	Common Wood Road	0.5
<i>Cyperus sparganii</i>	Wet-tops Wild Ryegrass	10.0
<i>Cyperus tenuis</i>	Virginia Wild Ryegrass	30.0
<i>Cyperus tenuis</i>	Towhee Grass	0.6
<i>Scirpus americanus</i>	Wild Ryegrass	5.0
<i>Scirpus americanus</i>	Towhee Grass	0.35
<i>Scirpus americanus</i>	Dark Green Rush	0.2
<i>Scirpus americanus</i>	Wet Grass	0.15
<i>Scirpus americanus</i>	Wetland Grass	0.5
<i>Scirpus americanus</i>	Sender's Widge Grass	0.5

FORB

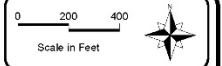
SCIENTIFIC NAME	COMMON NAME	Q/Ac
<i>Alisma subcordatum</i>	Common Water Plantain	0.85
<i>Aster multiflorus</i>	Meadow Aster	4.0
<i>Eleocharis acicularis</i>	Sparg. Vittoria	0.2
<i>Eleocharis acicularis</i>	Tartarhead	3.0
<i>Eleocharis acicularis</i>	Water Hemlock	2.5
<i>Eleocharis acicularis</i>	Syntherisma	3.0
<i>Eleocharis acicularis</i>	Blue Flag	4.5
<i>Eleocharis acicularis</i>	Cardinal Flower	0.15
<i>Eleocharis acicularis</i>	Common Water Hemlock	0.2
<i>Eleocharis acicularis</i>	1' sparg. Vittoria	0.25
<i>Eleocharis acicularis</i>	Marsh Flower	0.2
<i>Eleocharis acicularis</i>	Dark Sparg. Vittoria	0.2
<i>Eleocharis acicularis</i>	Crested Plant	3.8
<i>Eleocharis acicularis</i>	Pink Dot	2.8
<i>Eleocharis acicularis</i>	Common Arrowweed	0.2
<i>Eleocharis acicularis</i>	Mar. Dog Sedge	0.5
<i>Eleocharis acicularis</i>	Swamp Goldenrod	0.2
<i>Eleocharis acicularis</i>	Common Aster	0.2
<i>Eleocharis acicularis</i>	New England Aster	0.5
<i>Eleocharis acicularis</i>	Geranium	1.2
<i>Eleocharis acicularis</i>	Wet Meadow Rue	2.5
<i>Eleocharis acicularis</i>	Blue Jay Vine	0.75
<i>Eleocharis acicularis</i>	Golden Alexander	2.0

LCPW SHORTGRASS PRAIRIE MIX

SCIENTIFIC NAME	COMMON NAME	Q/Ac
<i>Andropogon scoparius</i>	Indigo Bunting	2.5
<i>Andropogon scoparius</i>	Blackfoot	2.0
<i>Andropogon scoparius</i>	Canada Wild Rice	2.0
<i>Andropogon scoparius</i>	Blue Grass	2.5
<i>Andropogon scoparius</i>	Little Bluestem	2.0
<i>Andropogon scoparius</i>	Prairie Dropseed	2.0

SCIENTIFIC NAME	COMMON NAME	Q/Ac
<i>Andropogon scoparius</i>	Needle Grass	3.0
<i>Andropogon scoparius</i>	Prairie Wren	3.0
<i>Andropogon scoparius</i>	Smooth Blue Aster	2.0
<i>Andropogon scoparius</i>	New England Aster	0.5
<i>Andropogon scoparius</i>	Blue Star Aster	0.5
<i>Andropogon scoparius</i>	White Knuckle	4.0
<i>Andropogon scoparius</i>	Prairie Convolvulus	2.5
<i>Andropogon scoparius</i>	Prairie Fireflower	9.0
<i>Andropogon scoparius</i>	Shrewsick Trifolium	3.0
<i>Andropogon scoparius</i>	Pale Purple Coneflower	5.0
<i>Andropogon scoparius</i>	Red-top Aster	4.0
<i>Andropogon scoparius</i>	Blue Bluestem	2.5
<i>Andropogon scoparius</i>	Marsh Bluestem	4.0
<i>Andropogon scoparius</i>	Wild Indigo	2.5
<i>Andropogon scoparius</i>	Prairie Sunflower	0.25
<i>Andropogon scoparius</i>	Flowering Dogwood	0.5
<i>Andropogon scoparius</i>	Moist Soil Plant	0.5
<i>Andropogon scoparius</i>	Red-top Aster	3.0
<i>Andropogon scoparius</i>	Black-eyed Susan	2.0
<i>Andropogon scoparius</i>	Prairie Black-eyed Susan	3.0
<i>Andropogon scoparius</i>	Shrewsick Trifolium	2.0
<i>Andropogon scoparius</i>	Marsh Bluestem	3.0
<i>Andropogon scoparius</i>	Golden Alexander	0.25
<i>Andropogon scoparius</i>	Golden Alexander	3.0

- NOTES**
1. Following Machine Tree Mowing all stumps shall be treated as indicated in Attachment 2 of this RFP.
 2. Machine Tree Mowing shall be seeded with LCPW Shortgrass Prairie Mix.
 3. All other areas disturbed as part of the project shall be seeded with the LCPW Wetland Mix.
 4. Artificial Wetland Plants shall be installed in the direction of the flow of water in both Stabilization, Wetland Habitat, and Wetland areas.
 5. All disturbed areas greater than 100 sq ft or as directed by Owner/Engineer shall be restored with Erosion Control Matting following seed rip.



- LEGEND**
- Project Boundary
 - Parcel Boundary
 - FEMA Floodplain by Elevation
 - FEMA Floodway
 - Lake County Contours
 - Surveyed Wetland Boundary
 - Surveyed Waters Boundary
 - Prop. Contours
 - Prop. Construction/Nursery Access Edge
 - Prop. Flow Direction

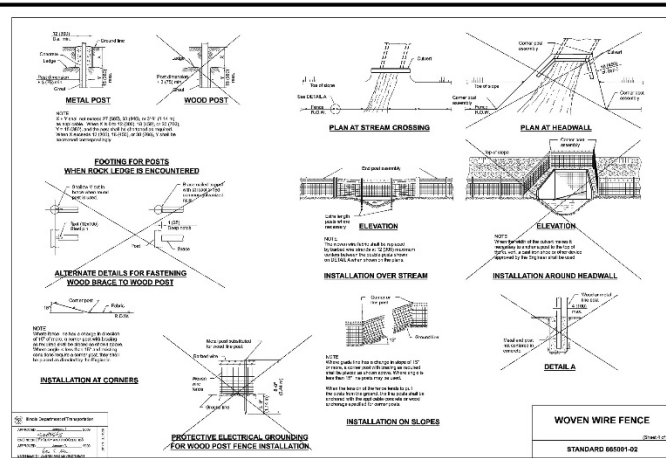
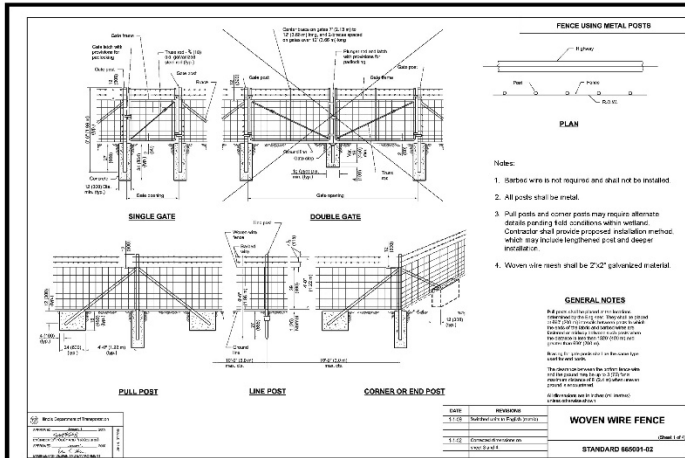
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**Mill Creek Water Quality
 Enhancement**
 Lake County, IL

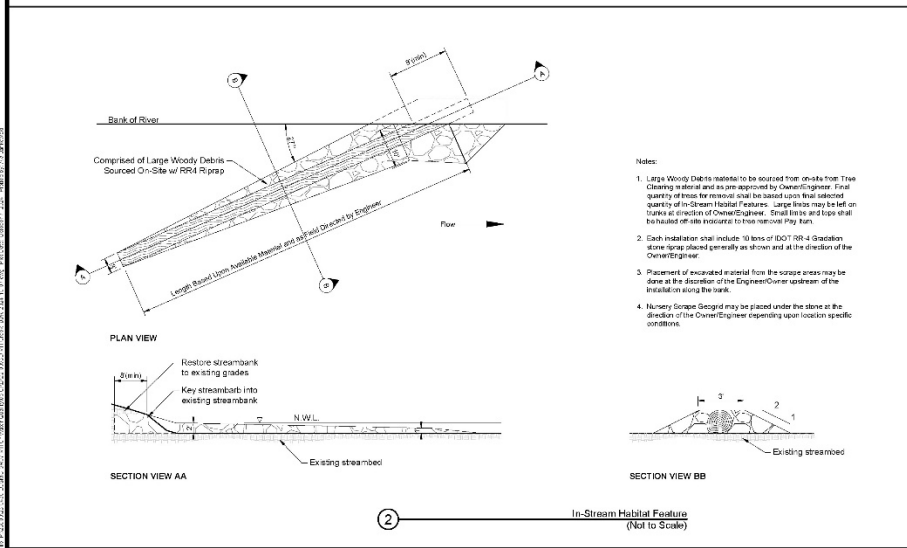
Restoration Plan

PROJECT NO.	28-0430	DATE	08/10
DESIGNED BY	DAK	CHECKED BY	AT/DBS
DRAWN BY	AKM	SCALE	C4.0
APPROVED BY	DAK	DATE	
QUANTITY	10027024	SHEET NO.	12
Issued for Bid			

DATE PLOTTED: 08/10/10 10:59 AM



① **BID ALTERNATE 3 Plant Protection Fence**
(Not to Scale)



② **In-Stream Habitat Feature**
(Not to Scale)

Scale bar measures 1" at full scale

LEGEND

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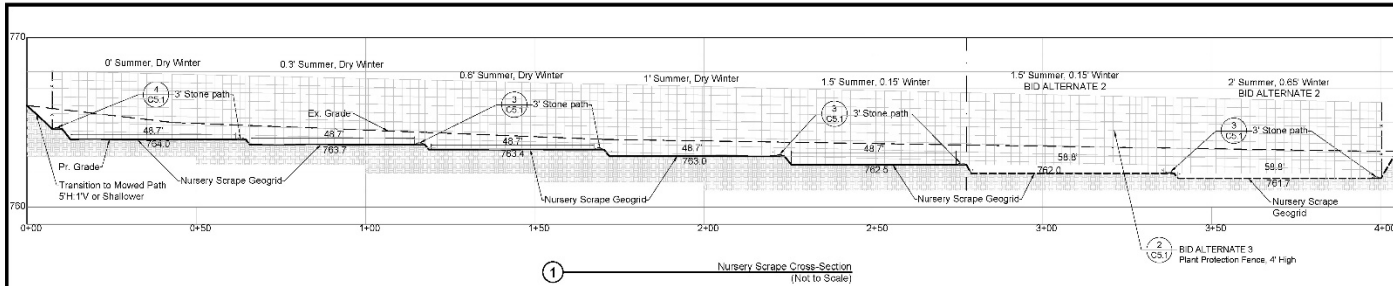
PROFESSIONAL DESIGN FIRM
LICENSE NO. 194-00029

Mill Creek Water Quality Enhancement
Lake County, IL

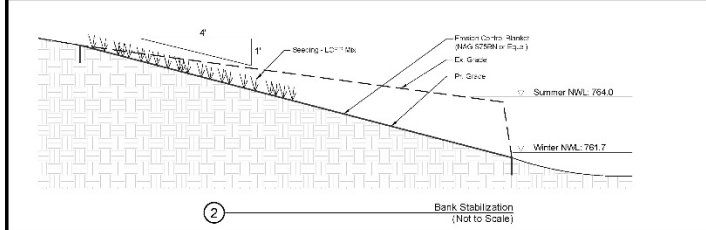
Details

PROJECT NO.	25-0430	SHEET NO.	C5.2
DATE OF CITY	DAK	DATE OF REV.	
DATE OF AT/REG	AT/REG	DATE OF REV.	
DATE OF REV.	JAW	DATE OF REV.	
DATE OF REV.	DAK	DATE OF REV.	
DATE OF REV.	16/2/2024	DATE OF REV.	12/1/24

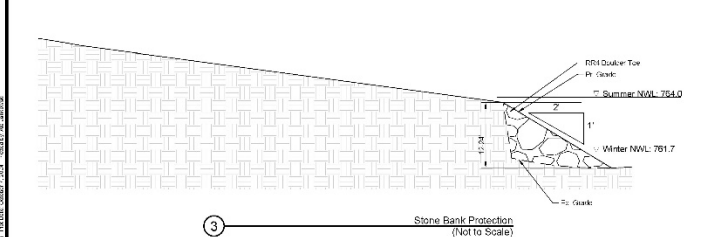
Issued for Bid



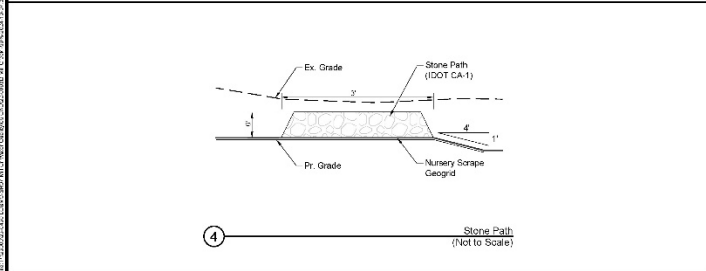
1 Nursery Scrape Cross-Section
(Not to Scale)



2 Bank Stabilization
(Not to Scale)



3 Stone Bank Protection
(Not to Scale)



4 Stone Path
(Not to Scale)

Scale bar measures 1" at full scale
0 1'

LEGEND

- Project Boundary
- Parcel Boundary
- FEMA Floodplain by Elevation
- FEMA Floodway
- Lake County Contours
- Surveyed Wetland Boundary
- Surveyed Waters Boundary
- Prop. Contours
- Prop. Construction/Nursery Access Edge
- Prop. Flow Diversion

No.	Revised/Issue	Date

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VOL@HEYASSOC.COM
PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-002429

Mill Creek Water Quality
Enhancement
Lake County, IL

Details

REVISION NO.	DESCRIPTION	DATE

DESIGNED BY	JAK	C5.1
DRAWN BY	AT_SEG	
CHECKED BY	JAK	
DATE PLOTTED	15/07/2024	11:04:12

Issued for Bid

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