

**CONTRACTUAL SERVICES AGREEMENT**  
**between**  
**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION**  
**and**  
**HR GREEN, INC.**  
**for**  
**ENGINEERING AND DESIGN SERVICES**  
**DCEO SEAVEY MASTER PLAN PHASE 4 - CHANNEL IMPROVEMENTS**  
**MUNDELEIN, ILLINOIS**

THIS is an AGREEMENT for contractual services, effective this 5th day of May 2022, by and between the **LAKE COUNTY STORMWATER MANAGEMENT COMMISSION**, 500 West Winchester Road, Libertyville, Illinois 60048 (hereinafter called SMC) and **HR GREEN, INC.**, 1391 Corporate Dr., Suite 203, McHenry, IL 60050 (hereinafter called CONSULTANT).

**PURPOSE**

The SMC wishes to engage CONSULTANT to complete Phased Engineering Plans (30%, 60%, 90%, 100%) with Phased Cost Estimates, Project Administration, Meetings, Permit Pre-Application Meetings, Data Collection and Coordination, GIS Data and Compilation, Obtain/Compile/Review Past Studies and Reports, Field Reconnaissance, Wetland Boundary and Tree Survey, Geotechnical Investigations, Utility coordination, Surveying Services, Channel Cross Section Survey Verification, Topographic Survey Verification, Plat of Easements, Engineer's Estimate, QA/QC and Constructability Review, Contract Plans and Specifications, Erosion Control Plan, Technical Specifications, Permitting (LCSMC WDP, IDNR-OWR, ACOE/IDNR, US Fish and Wildlife, MCSWCD, IL EPA), Hydrologic & Hydraulic Analysis, Bid Award and Assistance for a stormwater improvement in Mundelein, Illinois. ATTACHMENT A is a map showing the four project areas. Work performed under this contract will provide design plans and construction documents suitable for permitting and bidding this project.

**SERVICES**

CONSULTANT agrees to perform the SCOPE OF SERVICES set forth in ATTACHMENT B to accomplish the SMC's objectives for this project.

**COMPENSATION**

1. CONSULTANT agrees to perform the SCOPE OF SERVICES and furnish the items included therein, for a fee not to exceed \$394,259.84.
2. SMC agrees to pay the Consultant on a monthly basis with a total project cost not to exceed \$394,259.84, using the compensation schedule identified in ATTACHMENT C.
3. CONSULTANT shall furnish SMC with an itemized invoice on a monthly basis. Invoices shall show the actual staff hours and actual travel and other expenses that have occurred.

The SMC shall pay invoices in compliance with the Illinois Local Government Prompt Payment Act (50 ILCS 505/1, et seq.).

- a. Invoices will be submitted to [StormwaterAP@lakecountyil.gov](mailto:StormwaterAP@lakecountyil.gov).
- b. Invoices need to identify CONSULTANT staff, staff rate, hours per task, and scope of services task(s) identified in ATTACHMENT B. Invoices need to identify subconsultant WBE/MBE utilization.
- c. Invoices need to identify SMC Project Manager and SMC Project.

## **TERMS AND CONDITIONS**

4. The Agreement for Professional Engineering Services shall be effective through June 8, 2023.
5. This Agreement shall constitute the entire agreement between the Parties and shall include the following documents, in order of precedence:
  - a. This Agreement,
  - b. The Proposal dated April 29, 2022, submitted by CONSULTANT for the DCEO Seavey Master Plan Phase 4 - Mundelein Channel Improvements Project Engineering Services,
  - c. The CONSULTANT'S pricing sheet dated April 29, 2022, and
  - d. The CONSULTANT'S general terms and conditions, as amended.

The Parties agree that this Agreement represents and incorporates the entire understanding, and each party acknowledges that there are no warranties, representations, covenants, or understandings of any kind, matter or description whatsoever, made by either party except as expressly set forth herein.

6. This Agreement shall not be assigned, altered or modified without the express written consent of both parties except as provided in paragraph 8. The CONSULTANT shall not reject any reasonable change proposed in the best interest of the project by SMC. This Agreement supersedes any and all other Agreements, oral or written, between the parties hereto with respect to the subject matter hereof.
7. CONSULTANT will maintain INSURANCE coverage as required by Lake County Purchasing for Professional, Comprehensive, General, Automobile, Worker's Compensation, and Employer's Liability. Certificates evidencing such coverage must be provided to SMC prior to undertaking any assigned work. Include project name and additional insured to the COI section: DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES. Additional insured to include Lake County Stormwater Management Commission and the Village of Mundelein, Mundelein Park & Recreation District, ComEd, and the Libertyville Township. Inclusion of Private Property owners will be determined based on design direction.
  - a. County Insurance requirements:
    - i. <https://www.lakecountyil.gov/DocumentCenter/View/20874/Professional-Services-Insurance-Template?bidId=>
    - ii. <https://www.lakecountyil.gov/DocumentCenter/View/20875/Vehicles-Insurance-Template?bidId=>
8. The SMC may make, by written Order and agreed to by the CONSULTANT, changes in the scope of the work assignment if such changes are within the general scope of the

Agreement. If such changes cause an increase or decrease in CONSULTANT cost or the time required to complete the project, the parties hereto shall agree to an adjustment in the Agreement Amount, prior to issuance of the Change Order. Adjustment of the Agreement Amount shall be based on the change in CONSULTANT expense. CONSULTANT shall not be compensated for additional services rendered without an approved Change Order.

9. The SMC or CONSULTANT may at any time terminate this Agreement in whole or in part by written or verbal notice confirmed in writing. Upon notice of termination, the SMC will assume responsibility for services rendered to the point of termination. SMC will pay to the CONSULTANT any costs incurred prior to notification and any reimbursable expenses and reasonable costs relating to the termination. All services, property, publications, or materials provided during or resulting from the Agreement shall be the property of the SMC.
10. Consultant shall act as an independent contractor and shall perform the services provided for in this Agreement in accordance with the generally accepted standard of care of the CONSULTANT'S profession.
11. CONSULTANT agrees to fully indemnify and hold SMC and the Village Of Mundelein, Mundelein Park & Recreation District, Libertyville Township, their employees, and agents harmless of, from, and against any and all claims, costs, expenses (including attorney's fees), judgments, penalties, liabilities or losses which may be sustained by or secured against SMC or the Village of Mundelein, Mundelein Park & Recreation District, Libertyville Township, their employees, and agents, arising from the negligent acts, errors or omissions of the CONSULTANT, its employees, and agents arising out of or connected with the performance of this Agreement.
12. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall remain in full force and effect and are binding on Consultant and SMC.
13. This Agreement shall be governed by and construed according to the laws of the State of Illinois and under the jurisdiction of the 19<sup>th</sup> Judicial Circuit Court, Lake County, Illinois.

## **SCHEDULE AND DELIVERABLES**

14. SMC will issue a Notice of Award letter to CONSULTANT with this contract.
15. SMC will issue a Notice to Proceed letter to CONSULTANT.
16. The project shall proceed as follows upon receipt of the SMC Notice to Proceed letter:
  - a. CONSULTANT shall submit a draft of the 30% design documents and cost estimate for review by SMC by January 28, 2023.
  - b. CONSULTANT shall submit 30% design documents and cost estimate to SMC by March 31, 2023.
  - c. CONSULTANT shall submit the 100% design documents and cost estimate to SMC by June 9, 2023, pending Notice to Proceed, work directive changes, and SMC budget availability.

## **NOTICES AND COMMUNICATION**

All notices and communications given to either party by the other relative to this agreement shall be addressed to the respective parties as follows:

**To the SMC:** Lake County Stormwater Management Commission  
500 West Winchester Road, Suite 200  
Libertyville, IL 60048  
ATTN: Ernesto Huaracha, Water Resource Professional

**To CONSULTANT:** HR Green, Inc.  
1391 Corporate Dr., Suite 203  
McHenry, IL 60050-5528  
ATTN: Ajay Jain, Project Manager

**APPROVALS**

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed, as evidenced by the signatures of their duly authorized representative as affixed below.

**LAKE COUNTY STORMWATER  
MANAGEMENT COMMISSION:**

**HR GREEN, INC.:**

\_\_\_\_\_  
Kurt Woolford, Executive Director

\_\_\_\_\_  
Ajay Jain, PE, CFM  
Project Manager / Practice Leader  
Vice President, Water Resources

Date:\_\_\_\_\_

Date:\_\_\_\_\_

**ATTEST:**

**ATTEST:**

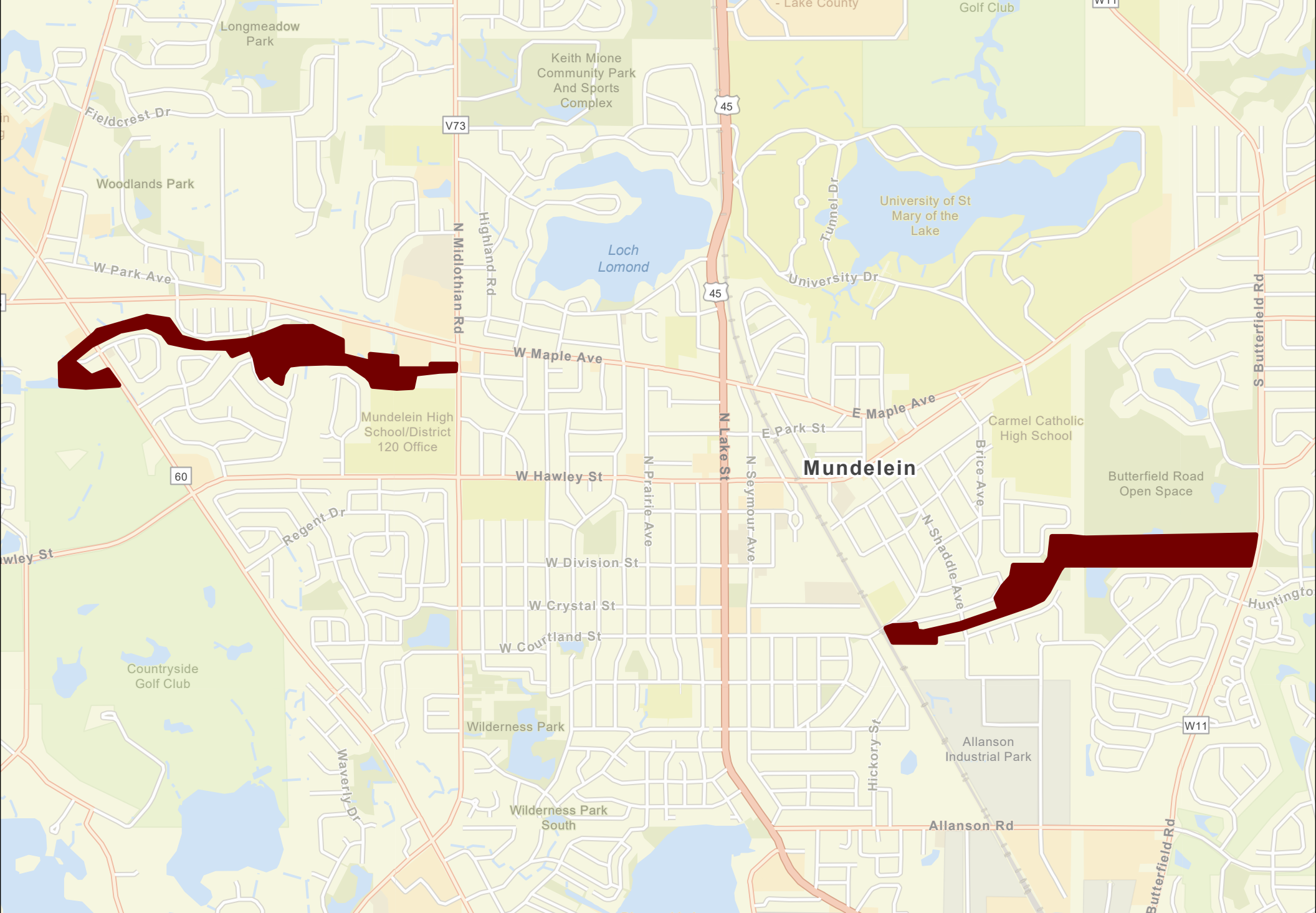
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Date:\_\_\_\_\_

Date:\_\_\_\_\_

## **ATTACHMENT A: PROJECT AREA**



## **ATTACHMENT B: SCOPE OF SERVICES**



# Lake County, Illinois

## Project Location 1; Shaddle to ComEd Row

**Project Understanding:** Seavey Drainage Ditch upstream of Shaddle Avenue is approximately 5' to 6' lower than the ditch invert downstream of Shaddle Avenue. The Seavey Drainage Ditch was regraded in early 2000's between Seymour Avenue and Shaddle Avenue (Phase I) which was permitted by SMC. The Phase II (Shaddle Avenue to Butterfield Road) was never completed leaving the upstream invert lower than downstream. As a result, the area previously regraded upstream of Shaddle Avenue has continued to sediment. The reach between Shaddle and ComEd ROW also contributes to the erosion and sediment load along the ditch impacting water quality downstream. Along the ComEd ROW, there is a 30" High pressure Gas Main and a 24" JAWA watermain. Lowering the ditch through ComEd ROW is not feasible. It is likely that the ditch grading will stop at the ComEd ROW with a low flow piped outlet installed under the high pressure gas main and water main and high flow being maintained at existing grades. A sedimentation basin may be required west of the ComEd ROW to reduce sediment transport downstream. The general scope will include the following:

- Lower and regrade Seavey Drainage Ditch downstream of Shaddle Avenue to match invert upstream of Shaddle Avenue to provide positive drainage slope.
- Stabilize the banks to minimize erosion.
- Evaluate alternates to go under the high pressure gas main and water main along ComEd ROW.
- Prepare final engineering plans and bid documents for proposed improvements
- Prepare and apply for required permits

## Project Location 3: Railroad to Shaddle

**Project Understanding:** This section of the Seavey Ditch has accumulated sediments over the years (since the completion of Phase I project). The accumulation of the sediments is a result of the downstream project (downstream of Shaddle) never completed as anticipated. The accumulation of sediments will potentially transport downstream along with sediment bound pollutant load as the ditch grade downstream of Shaddle is lowered to match the ditch grade upstream of Shaddle. The accumulated sediment also reduces conveyance capacity of the channel. It will be a watershed benefit to remove the accumulate sediments from his portion of the Creek and return the previously completed Phase I improvements to its functional capacity.

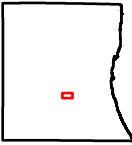
The general scope will include the following:

- Survey the sediment depth to estimate volume of sediment to be removed from the channel
- Prepare final engineering plans and bid documents for the proposed improvements
- Prepare and apply for required permits

## Project Location 2; ComEd ROW to Butterfield Road

**Project Understanding:** Project Area is located within the Liberty Township Open Space District and consists of a permitted wetland mitigation bank south of the Seavey Drainage Ditch. LCSMC desires that the Seavey Drainage Ditch in this area be regraded to a meandering and naturalized ditch section to reduce erosion and improve aesthetic and water quality. The general scope will include the following:

- Lower and regrade Seavey Drainage Ditch downstream of ComEd ROW to match invert upstream of the low flow outlet from west of ComEd ROW.
- Provide a "natural channel design" ditch section with meanders and best management practices along with naturalized plantings and buffer.
- Prepare final engineering plans and bid documents for proposed improvements
- Prepare and apply for required permits
- Coordinate improvements with consultant for the project downstream of Butterfield Road. Evaluate feasibility of installing a low flow culvert parallel to existing culvert to improve ditch slopes, if required.




Lake County, Illinois



Map Printed on 4/15/2022



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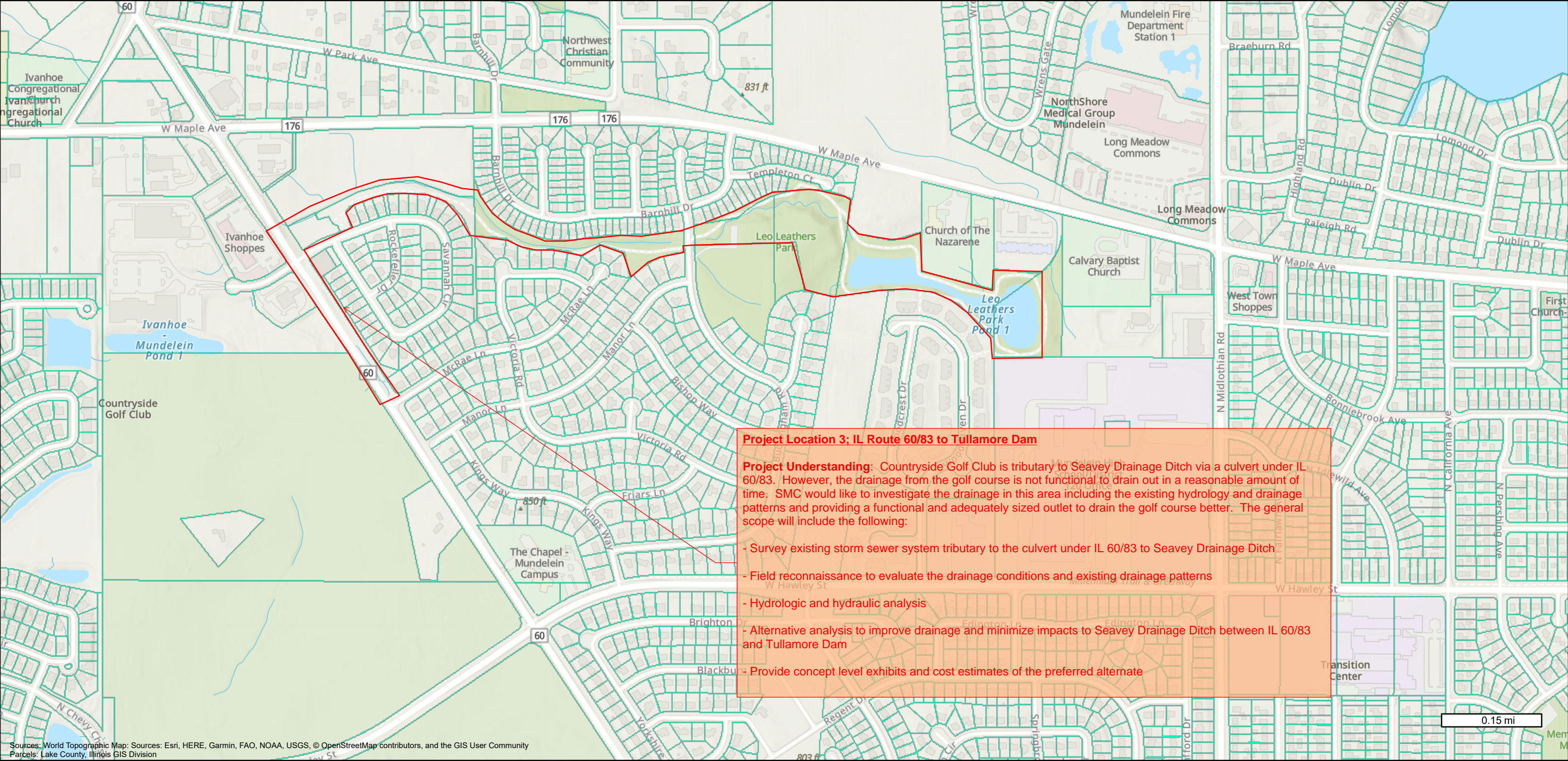


Tax Parcel Lines

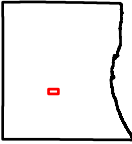
**Disclaimer:** The selected feature may not occur anywhere in the current map extent. A Registered Land Surveyor should be consulted to determine the precise location of property boundaries on the ground. This map does not constitute a regulatory determination and is not a base for engineering design. This map is intended to be viewed and printed in color.




# Lake County, Illinois



Sources: World Topographic Map: Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community  
Parcels: Lake County, Illinois GIS Division




Lake County, Illinois




LakeCounty

Map Printed on 4/14/2022



N



Tax Parcel Lines

**Disclaimer:** The selected feature may not occur anywhere in the current map extent. A Registered Land Surveyor should be consulted to determine the precise location of property boundaries on the ground. This map does not constitute a regulatory determination and is not a base for engineering design. This map is intended to be viewed and printed in color.

**ATTACHMENT C: COMPENSATION SCHEDULE**



WORKPLAN, MAN-HOUR AND FEE ESTIMATE - DRAFT  
SEAVEY DRAINAGE MASTER PLAN AND DESIGN  
PREPARED BY - HR GREEN, INC.  
DATE: April 29, 2022

Task #	Task Descriptions		Hours	Labor Fee	RES	MSET	Reimb.	Permit Fees	Total FEE
PROJECT LOCATION 1 - FINAL ENGINEERING DESIGN (± 1,900' OF SEAVEY DRAINAGE CHANNEL) - SHADDLE TO COMED ROW									
Task 1	Project Administration		46	\$10,470.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,470.00
	1	Project Controls and Start Up	16	\$3,010.00	\$0	\$0	\$0.00	\$0.00	\$3,010.00
	2	Project Admin/Progress Reports (10 months)	30	\$7,460.00	\$0	\$0	\$0.00	\$0.00	\$7,460.00
Task 2	Meetings		42	\$9,040.00	\$0.00	\$0.00	\$311.88	\$0.00	\$9,351.88
	1	Client Kickoff Meeting	8	\$1,660.00	\$0	\$0	\$0.00	\$0.00	\$1,660.00
	2	Internal Project Team Kickoff Meeting	6	\$1,124.00	\$0	\$0	\$0.00	\$0.00	\$1,124.00
	3	Progress/Workshop Meetings with Client (2)	12	\$2,658.00	\$0	\$0	\$155.94	\$0.00	\$2,813.94
	4	Stakeholder Meetings (3) - VOM, MPRD, COMED	12	\$2,658.00	\$0	\$0	\$155.94	\$0.00	\$2,813.94
	5	Pre-Application Meetings (ACOE) - Virtual?	2	\$462.00	\$0	\$0	\$0.00	\$0.00	\$462.00
	6	Pre-Application Meeting (IDNR-OWR) - Virtual?	2	\$478.00	\$0	\$0	\$0.00	\$0.00	\$478.00
Task 3	Data Collection and Coordination		60	\$11,022.00	\$3,500.00	\$10,500.00	\$155.94	\$0.00	\$25,177.94
	1	GIS Data and Compilation	4	\$580.00	\$0	\$0	\$0.00	\$0.00	\$580.00
	2	Obtain/Compile/Review Past Studies and Reports	8	\$1,472.00	\$0	\$0	\$0.00	\$0.00	\$1,472.00
	3	Field Reconnaissance	12	\$2,248.00	\$0	\$0	\$155.94	\$0.00	\$2,403.94
	4	Wetland Boundary and Tree Survey	2	\$390.00	\$3,500	\$0	\$0.00	\$0.00	\$3,890.00
	5	Geotechnical Investigations	4	\$822.00	\$0	\$10,500	\$0.00	\$0.00	\$11,322.00
	6	Northshre Gas, JAWA and Franchise Utility coordination	30	\$5,510.00	\$0	\$0	\$0.00	\$0.00	\$5,510.00
Task 4	Surveying Services		100	\$15,802.00	\$0.00	\$0.00	\$176.28	\$0.00	\$15,978.28
	1	Channel Cross Section Survey Verification	28	\$4,327.00	\$0	\$0	\$88.14	\$0.00	\$4,415.14
	2	Topographic Survey Verification	26	\$3,905.00	\$0	\$0	\$88.14	\$0.00	\$3,993.14
	3	Survey Base Map	12	\$1,968.00	\$0	\$0	\$0.00	\$0.00	\$1,968.00
	4	Plat of Easements (3 assumed)	34	\$5,602.00	\$0	\$0	\$0.00	\$0.00	\$5,602.00
Task 5	Contract Plans and Specifications (30%)		112	\$20,218.00	\$0.00	\$0.00	\$155.94	\$0.00	\$20,373.94
	1	Cover Sheet	2	\$310.00	\$0	\$0	\$0.00	\$0.00	\$310.00
	2	Overall Sheet	4	\$620.00	\$0	\$0	\$0.00	\$0.00	\$620.00
	3	Typical Sections (existing and proposed)	14	\$2,454.00	\$0	\$0	\$0.00	\$0.00	\$2,454.00
	4	Existing Condition Sheets	12	\$2,088.00	\$0	\$0	\$0.00	\$0.00	\$2,088.00
	5	Removal Sheets	12	\$2,088.00	\$0	\$0	\$0.00	\$0.00	\$2,088.00
	6	Alternative Analysis and 30% Plan View Layout	18	\$3,278.00	\$0	\$0	\$0.00	\$0.00	\$3,278.00
	7	30% Cross-Sections	18	\$3,074.00	\$0	\$0	\$0.00	\$0.00	\$3,074.00
	8	Engineer's Estimate	16	\$2,764.00	\$0	\$0	\$0.00	\$0.00	\$2,764.00
	9	QA/QC and Constructability Review	16	\$3,542.00	\$0	\$0	\$155.94	\$0.00	\$3,697.94
Task 6	Contract Plans and Specifications (60%)		294	\$51,914.00	\$1,500.00	\$0.00	\$155.94	\$0.00	\$53,569.94
	1	Cover Sheet	0	\$0.00	\$0	\$0	\$0.00	\$0.00	\$0.00
	2	Index of Sheets/List of Standards	4	\$734.00	\$0	\$0	\$0.00	\$0.00	\$734.00
	3	Overall Sheet	2	\$310.00	\$0	\$0	\$0.00	\$0.00	\$310.00
	4	Summary of Quantities	4	\$734.00	\$0	\$0	\$0.00	\$0.00	\$734.00
	5	General Notes, Legend, Utility Contact Sheet	8	\$1,354.00	\$0	\$0	\$0.00	\$0.00	\$1,354.00
	6	Alignment and Benchmark	8	\$1,354.00	\$0	\$0	\$0.00	\$0.00	\$1,354.00
	7	Suggested Access and Staging Plan	16	\$2,880.00	\$0	\$0	\$0.00	\$0.00	\$2,880.00
	8	Typical Sections (existing and proposed)	12	\$2,144.00	\$0	\$0	\$0.00	\$0.00	\$2,144.00
	9	Existing Condition Sheets	4	\$734.00	\$0	\$0	\$0.00	\$0.00	\$734.00
	10	Erosion Control Plan	12	\$2,054.00	\$0	\$0	\$0.00	\$0.00	\$2,054.00
	11	Removal Sheets	10	\$1,778.00	\$0	\$0	\$0.00	\$0.00	\$1,778.00
	12	Plan and Profile Sheets	52	\$8,628.00	\$0	\$0	\$0.00	\$0.00	\$8,628.00
	13	Structual Sheets (pedestrian bridge replacement)	26	\$4,504.00	\$0	\$0	\$0.00	\$0.00	\$4,504.00
	14	Structural Sheets (retaining wall design)	26	\$4,504.00	\$0	\$0	\$0.00	\$0.00	\$4,504.00
	15	Restoration Plan	18	\$3,064.00	\$1,500	\$0	\$0.00	\$0.00	\$4,564.00
	16	Cross Sections	36	\$6,148.00	\$0	\$0	\$0.00	\$0.00	\$6,148.00
	17	Draft Technical Specifications	18	\$3,658.00	\$0	\$0	\$0.00	\$0.00	\$3,658.00
	18	Engineer's Estimate	18	\$3,074.00	\$0	\$0	\$0.00	\$0.00	\$3,074.00
	19	QA/QC and Constructability Review	20	\$4,258.00	\$0	\$0	\$155.94	\$0.00	\$4,413.94
Task 7	Contract Plans and Specifications (90%) + Bid Manual		104	\$18,735.00	\$0.00	\$0.00	\$155.94	\$0.00	\$18,890.94
	1	Revise 60% Drawings	71	\$12,277.20	\$0	\$0	\$0.00	\$0.00	\$12,277.20
	2	90% Technical Specifications	9	\$1,829.00	\$0	\$0	\$0.00	\$0.00	\$1,829.00
	3	Draft Front End Specifications	8	\$1,696.00	\$0	\$0	\$0.00	\$0.00	\$1,696.00
	4	Engineer's Estimate	7	\$1,229.60	\$0	\$0	\$0.00	\$0.00	\$1,229.60
	5	QA/QC and Constructability Review	8	\$1,703.20	\$0	\$0	\$155.94	\$0.00	\$1,859.14
Task 8	Contract Plans and Specifications (100%) + Bid Manual		34	\$6,060.46	\$0.00	\$0.00	\$0.00	\$0.00	\$6,060.46
	1	100% Final Drawings	21	\$3,683.16	\$0	\$0	\$0.00	\$0.00	\$3,683.16
	2	100% Technical Specifications	5	\$914.50	\$0	\$0	\$0.00	\$0.00	\$914.50
	3	Final Front End Specifications	4	\$848.00	\$0	\$0	\$0.00	\$0.00	\$848.00
	4	Engineer's Estimate	4	\$614.80	\$0	\$0	\$0.00	\$0.00	\$614.80
Task 9	Permitting + Hydrologic & Hydraulic Analysis		190	\$30,412.00	\$0.00	\$0.00	\$0.00	\$9,877.00	\$40,289.00
	1	LCSMC WDP	66	\$10,854.00	\$0	\$0	\$0.00	\$0.00	\$10,854.00
	2	IDNR-OWR	58	\$9,166.00	\$0	\$0	\$0.00	\$5,000.00	\$14,166.00
	3	ACOE/IDNR EcoCAT + US Fish and Wildlife Section 7	32	\$4,800.00	\$0	\$0	\$0.00	\$127.00	\$4,927.00
	4	MCSWCD (Part of ACOE)	10	\$1,470.00	\$0	\$0	\$0.00	\$4,000.00	\$5,470.00
	5	IEPA Water and Sewer Main Permits	16	\$2,514.00	\$0	\$0	\$0.00	\$0.00	\$2,514.00
	6	IEPA NOI	4	\$540.00	\$0	\$0	\$0.00	\$750.00	\$1,290.00
	7	QA/QC	4	\$1,068.00	\$0	\$0	\$0.00	\$0.00	\$1,068.00
Task 10	Bid Award and Assistance		28	\$5,136.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,136.00
	1	Bid Advertisement	4	\$848.00	\$0	\$0	\$0.00	\$0.00	\$848.00
	2	Bid Assistance and Award	24	\$4,288.00	\$0	\$0	\$0.00	\$0.00	\$4,288.00
SUB TOTAL			1009	\$178,809.46	\$5,000.00	\$10,500.00	\$1,111.92	\$9,877.00	\$205,298.38

WORKPLAN, MAN-HOUR AND FEE ESTIMATE - DRAFT  
SEAVEY DRAINAGE MASTER PLAN AND DESIGN  
PREPARED BY - HR GREEN, INC.  
DATE: April 29, 2022

Task #	Task Descriptions		Hours	Labor Fee	RES	MSET	Reimb.	Permit Fees	Total FEE
PROJECT LOCATION 2 - FINAL ENGINEERING DESIGN (± 2,500' OF SEAVEY DRAINAGE CHANNEL) - COMED ROW TO BUTTERFILED									
Task 1	Project Administration		6	\$1,268.00	\$0.00	\$0.00	\$0.00		\$1,268.00
	1	Project Controls and Start Up	6	\$1,268.00	\$0	\$0	\$0.00		\$1,268.00
	2	Project Admin/Progress Reports (10 months)	0	\$0.00	\$0	\$0	\$0.00		\$0.00
Task 2	Meetings		6	\$1,348.00	\$0.00	\$0.00	\$0.00		\$1,348.00
	1	Stakeholder Meetings (1)	6	\$1,348.00	\$0	\$0	\$0.00		\$1,348.00
Task 3	Data Collection and Coordination		24	\$4,424.00	\$4,500.00	\$3,620.00	\$0.00		\$12,424.00
	1	Field Reconnaissance	12	\$2,168.00	\$0	\$0	\$0.00		\$2,168.00
	2	Wetland Boundary and Tree Survey	2	\$390.00	\$4,500	\$0	\$0.00		\$4,890.00
	3	Geotechnical Investigations	4	\$822.00	\$0	\$3,500	\$0.00		\$4,322.00
	4	Franchise Utility coordination	6	\$1,044.00	\$0	\$0	\$0.00		\$1,044.00
Task 4	Surveying Services		40	\$6,112.00	\$0.00	\$0.00	\$0.00		\$6,112.00
	1	Channel Cross Sections	14	\$2,174.00	\$0	\$0	\$0.00		\$2,174.00
	2	Topographic Survey	12	\$1,752.00	\$0	\$0	\$0.00		\$1,752.00
	3	Butterfield Culvert Survey	8	\$1,168.00	\$0	\$0	\$0.00		\$1,168.00
	4	Survey Base Map	6	\$1,018.00	\$0	\$0	\$0.00		\$1,018.00
Task 5	Contract Plans and Specifications (30%)		102	\$17,724.00	\$2,700.00	\$0.00	\$155.94		\$20,579.94
	1	Cover Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	2	Overall Sheet	2	\$310.00	\$0	\$0	\$0.00		\$310.00
	3	Typical Sections (existing and proposed)	22	\$3,684.00	\$1,200	\$0	\$0.00		\$4,884.00
	4	Existing Condition Sheets	6	\$930.00	\$0	\$0	\$0.00		\$930.00
	5	Removal Sheets	8	\$1,354.00	\$0	\$0	\$0.00		\$1,354.00
	6	30% Plan View Layout (Meandering Channel Design)	26	\$4,464.00	\$1,500	\$0	\$0.00		\$5,964.00
	7	Butterfield Culvert Improvements	8	\$1,444.00	\$0	\$0	\$0.00		\$1,444.00
	8	30% Cross-Sections	16	\$2,674.00	\$0	\$0	\$0.00		\$2,674.00
	9	Engineer's Estimate	8	\$1,434.00	\$0	\$0	\$0.00		\$1,434.00
	10	QA/QC and Constructability Review	6	\$1,430.00	\$0	\$0	\$155.94		\$1,585.94
Task 6	Contract Plans and Specifications (60%)		162	\$27,426.00	\$6,000.00	\$0.00	\$155.94		\$33,581.94
	1	Cover Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	2	Index of Sheets/List of Standards	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	3	Overall Sheet	2	\$310.00	\$0	\$0	\$0.00		\$310.00
	4	Summary of Quantities	2	\$310.00	\$0	\$0	\$0.00		\$310.00
	5	General Notes, Legend, Utility Contact Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	6	Alignment and Benchmark	2	\$310.00	\$0	\$0	\$0.00		\$310.00
	7	Suggested Access and Staging Plan	4	\$734.00	\$0	\$0	\$0.00		\$734.00
	8	Typical Sections (existing and proposed)	6	\$1,010.00	\$0	\$0	\$0.00		\$1,010.00
	9	Existing Condition Sheets	4	\$620.00	\$0	\$0	\$0.00		\$620.00
	10	Erosion Control Plan	6	\$1,010.00	\$0	\$0	\$0.00		\$1,010.00
	11	Removal Sheets	6	\$1,044.00	\$0	\$0	\$0.00		\$1,044.00
	12	Plan and Profile Sheets	58	\$9,424.00	\$3,500	\$0	\$0.00		\$12,924.00
	13	Butterfield Culvert Improvements	14	\$2,464.00	\$0	\$0	\$0.00		\$2,464.00
	14	Restoration Plan	16	\$2,674.00	\$2,500	\$0	\$0.00		\$5,174.00
	15	Cross Sections	20	\$3,294.00	\$0	\$0	\$0.00		\$3,294.00
	16	Draft Technical Specifications	6	\$1,210.00	\$0	\$0	\$0.00		\$1,210.00
	17	Engineer's Estimate	12	\$2,054.00	\$0	\$0	\$0.00		\$2,054.00
	18	QA/QC and Constructability Review	4	\$958.00	\$0	\$0	\$155.94		\$1,113.94
Task 7	Contract Plans and Specifications (90%) + Bid Manual		67	\$11,839.80	\$2,000.00	\$0.00	\$155.94		\$13,995.74
	1	Revise 60% Drawings	49	\$8,227.80	\$1,000	\$0	\$0.00		\$9,227.80
	2	90% Technical Specifications	8	\$1,610.00	\$1,000	\$0	\$0.00		\$2,610.00
	3	Draft Front End Specifications	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	4	Engineer's Estimate	6	\$1,044.00	\$0	\$0	\$0.00		\$1,044.00
	5	QA/QC and Constructability Review	4	\$958.00	\$0	\$0	\$155.94		\$1,113.94
Task 8	Contract Plans and Specifications (100%) + Bid Manual		43	\$8,055.92	\$1,420.00	\$0.00	\$155.94		\$9,631.86
	1	Revise 90% Drawings	27	\$4,735.92	\$500	\$0	\$0.00		\$5,235.92
	2	90% Technical Specifications	8	\$1,628.00	\$920	\$0	\$0.00		\$2,548.00
	3	Draft Front End Specifications	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	4	Engineer's Estimate	4	\$734.00	\$0	\$0	\$0.00		\$734.00
	5	QA/QC and Constructability Review	4	\$958.00	\$0	\$0	\$155.94		\$1,113.94
Task 9	Permitting + Hydrologic & Hydraulic Analysis		64	\$11,344.00	\$4,500.00	\$0.00	\$155.94		\$15,999.94
	1	LCSMC WDP	20	\$3,548.00	\$0	\$0	\$0.00		\$3,548.00
	2	IDNR-OWR	18	\$3,158.00	\$0	\$0	\$0.00		\$3,158.00
	3	ACOE/IDNR EcoCAT + US Fish and Wildlife Section 7	16	\$2,640.00	\$4,500	\$0	\$0.00		\$7,140.00
	4	MCSWCD (Part of ACOE)	4	\$660.00	\$0	\$0	\$0.00		\$660.00
	5	IEPA NOI	2	\$270.00	\$0	\$0	\$0.00		\$270.00
	6	QA/QC	4	\$1,068.00	\$0	\$0	\$155.94		\$1,223.94
Task 10	Bid Award and Assistance		10	\$1,834.00	\$0.00	\$0.00	\$0.00		\$1,834.00
	1	Bid Advertisement	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	2	Bid assistance and award	10	\$1,834.00	\$0	\$0	\$0.00		\$1,834.00
SUB TOTAL			523	\$91,375.72	\$21,120.00	\$3,620.00	\$779.70		\$116,775.42

WORKPLAN, MAN-HOUR AND FEE ESTIMATE - DRAFT  
SEAVEY DRAINAGE MASTER PLAN AND DESIGN  
PREPARED BY - HR GREEN, INC.  
DATE: April 29, 2022

Task #	Task Descriptions		Hours	Labor Fee	RES	MSET	Reimb.	Permit Fees	Total FEE
PROJECT LOCATION 3 - FINAL ENGINEERING DESIGN (± 1,500' OF SEAVEY DRAINAGE CHANNEL) - RAILROAD to SHADDLE									
Task 1	Project Administration		2	\$479.00	\$0.00	\$0.00	\$0.00		\$479.00
	1	Project Controls and Start Up	2	\$479.00	\$0	\$0	\$0.00		\$479.00
	2	Project Admin/Progress Reports (10 months)	0	\$0.00	\$0	\$0	\$0.00		\$0.00
Task 2	Meetings		2	\$479.00	\$0.00	\$0.00	\$0.00		\$479.00
	1	Stakeholder Meetings (1)	2	\$479.00	\$0	\$0	\$0.00		\$479.00
Task 3	Data Collection and Coordination		12	\$2,128.00	\$1,500.00	\$3,620.00	\$0.00		\$3,628.00
	1	Field Reconnaissance	6	\$1,084.00	\$0	\$0	\$0.00		\$1,084.00
	2	Wetland Boundary and Tree Survey	0	\$0.00	\$1,500	\$0	\$0.00		\$1,500.00
	3	Geotechnical Investigations	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	4	Franchise Utility coordination	6	\$1,044.00	\$0	\$0	\$0.00		\$1,044.00
Task 4	Surveying Services		26	\$4,042.00	\$0.00	\$0.00	\$0.00		\$4,042.00
	1	Channel Cross Sections	22	\$3,344.00	\$0	\$0	\$0.00		\$3,344.00
	2	Topographic Survey	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	3	Butterfield Culvert Survey	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	4	Survey Base Map	4	\$698.00	\$0	\$0	\$0.00		\$698.00
Task 5	Contract Plans and Specifications (30%)		40	\$6,951.00	\$0.00	\$0.00	\$155.94		\$7,106.94
	1	Cover Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	2	Overall Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	3	Typical Sections (existing and proposed)	8	\$1,240.00	\$0	\$0	\$0.00		\$1,240.00
	4	Existing Condition Sheets	4	\$620.00	\$0	\$0	\$0.00		\$620.00
	5	Removal Sheets	8	\$1,297.00	\$0	\$0	\$0.00		\$1,297.00
	6	30% Plan View Layout (Meandering Channel Design)	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	7	Butterfield Culvert Improvements	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	8	30% Cross-Sections	10	\$1,647.00	\$0	\$0	\$0.00		\$1,647.00
	9	Engineer's Estimate	4	\$717.00	\$0	\$0	\$0.00		\$717.00
	10	QA/QC and Constructability Review	6	\$1,430.00	\$0	\$0	\$155.94		\$1,585.94
Task 6	Contract Plans and Specifications (60%)		56	\$9,726.00	\$0.00	\$0.00	\$155.94		\$9,881.94
	1	Cover Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	2	Index of Sheets/List of Standards	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	3	Overall Sheet	1	\$155.00	\$0	\$0	\$0.00		\$155.00
	4	Summary of Quantities	1	\$155.00	\$0	\$0	\$0.00		\$155.00
	5	General Notes, Legend, Utility Contact Sheet	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	6	Alignment and Benchmark	1	\$155.00	\$0	\$0	\$0.00		\$155.00
	7	Suggested Access and Staging Plan	2	\$367.00	\$0	\$0	\$0.00		\$367.00
	8	Typical Sections (existing and proposed)	5	\$815.00	\$0	\$0	\$0.00		\$815.00
	9	Existing Condition Sheets	2	\$310.00	\$0	\$0	\$0.00		\$310.00
	10	Erosion Control Plan	3	\$505.00	\$0	\$0	\$0.00		\$505.00
	11	Removal Sheets	2	\$310.00	\$0	\$0	\$0.00		\$310.00
	12	Plan and Profile Sheets	8	\$1,337.00	\$0	\$0	\$0.00		\$1,337.00
	13	Butterfield Culvert Improvements	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	14	Restoration Plan	8	\$1,337.00	\$0	\$0	\$0.00		\$1,337.00
	15	Cross Sections	10	\$1,647.00	\$0	\$0	\$0.00		\$1,647.00
	16	Draft Technical Specifications	4	\$803.00	\$0	\$0	\$0.00		\$803.00
	17	Engineer's Estimate	5	\$872.00	\$0	\$0	\$0.00		\$872.00
	18	QA/QC and Constructability Review	4	\$958.00	\$0	\$0	\$155.94		\$1,113.94
Task 7	Contract Plans and Specifications (90%) + Bid Manual		24	\$4,531.00	\$0.00	\$0.00	\$155.94		\$4,686.94
	1	Revise 60% Drawings	16	\$2,799.00	\$0	\$0	\$0.00		\$2,799.00
	2	90% Technical Specifications	2	\$407.00	\$0	\$0	\$0.00		\$407.00
	3	Draft Front End Specifications	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	4	Engineer's Estimate	2	\$367.00	\$0	\$0	\$0.00		\$367.00
	5	QA/QC and Constructability Review	4	\$958.00	\$0	\$0	\$155.94		\$1,113.94
Task 8	Contract Plans and Specifications (100%) + Bid Manual		24	\$4,653.40	\$0.00	\$0.00	\$155.94		\$4,809.34
	1	Revise 90% Drawings	10	\$1,812.40	\$0	\$0	\$0.00		\$1,812.40
	2	90% Technical Specifications	8	\$1,628.00	\$0	\$0	\$0.00		\$1,628.00
	3	Draft Front End Specifications	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	4	Engineer's Estimate	4	\$734.00	\$0	\$0	\$0.00		\$734.00
	5	QA/QC and Constructability Review	2	\$479.00	\$0	\$0	\$155.94		\$634.94
Task 9	Permitting + Hydrologic & Hydraulic Analysis		42	\$7,406.00	\$1,500.00	\$0.00	\$155.94		\$9,061.94
	1	LCSMC WDP	8	\$1,384.00	\$0	\$0	\$0.00		\$1,384.00
	2	IDNR-OWR	8	\$1,384.00	\$0	\$0	\$0.00		\$1,384.00
	3	ACOE/IDNR EcoCAT + US Fish and Wildlife Section 7	16	\$2,640.00	\$1,500	\$0	\$0.00		\$4,140.00
	4	MCSWCD (Part of ACOE)	4	\$660.00	\$0	\$0	\$0.00		\$660.00
	5	IEPA NOI	2	\$270.00	\$0	\$0	\$0.00		\$270.00
	6	QA/QC	4	\$1,068.00	\$0	\$0	\$155.94		\$1,223.94
Task 10	Bid Award and Assistance		10	\$1,834.00	\$0.00	\$0.00	\$0.00		\$1,834.00
	1	Bid Advertisement	0	\$0.00	\$0	\$0	\$0.00		\$0.00
	2	Bid assistance and award	10	\$1,834.00	\$0	\$0	\$0.00		\$1,834.00
SUB TOTAL			238	\$42,229.40	\$3,000.00	\$3,620.00	\$779.70		\$46,009.10



WORKPLAN, MAN-HOUR AND FEE ESTIMATE - DRAFT  
SEAVEY DRAINAGE MASTER PLAN AND DESIGN  
PREPARED BY - HR GREEN, INC.  
DATE: April 29, 2022

Task #	Task Descriptions	Hours	Labor Fee	RES	MSET	Reimb.	Permit Fees	Total FEE
PROJECT LOCATION 4 - DRAINAGE INVESTIGATION AND CONCEPT DESIGN (FROM UPSTREAM OF IL ROUTE 60 TO TULLAMORE DAM)								
Task 1	Project Administration	6	\$1,602.00	\$0.00	\$0.00	\$0.00		\$1,602.00
	1 Project Controls and Start Up	2	\$534.00	\$0	\$0	\$0.00		\$534.00
	2 Project Admin/Progress Reports (4 months)	4	\$1,068.00	\$0	\$0	\$0.00		\$1,068.00
Task 2	Meetings	4	\$958.00	\$0.00	\$0.00	\$0.00		\$958.00
	1 Stakeholder Meetings (1)	4	\$958.00	\$0	\$0	\$0.00		\$958.00
Task 3	Data Collection and Coordination	22	\$3,514.00	\$0.00	\$0.00	\$155.94		\$3,669.94
	1 Field Reconnaissance	8	\$1,320.00	\$0	\$0	\$155.94		\$1,475.94
	2 Obtain/Compile Past Studies and Reports	14	\$2,194.00	\$0	\$0	\$0.00		\$2,194.00
Task 4	Surveying Services	27	\$4,115.00	\$0.00	\$0.00	\$0.00		\$4,115.00
	1 Utility Survey	27	\$4,115.00	\$0	\$0	\$0.00		\$4,115.00
Task 5	Hydrologic and Hydraulic Modeleing	74	\$12,390.00	\$0.00	\$0.00	\$0.00		\$12,390.00
	1 Existing Conditions	16	\$2,704.00	\$0	\$0	\$0.00		\$2,704.00
	2 Alternative Analysis Concepts	12	\$2,164.00	\$0	\$0	\$0.00		\$2,164.00
	3 Alternative Analysis Models	30	\$4,594.00	\$0	\$0	\$0.00		\$4,594.00
	4 Engineer's Estimate	12	\$1,860.00	\$0	\$0	\$0.00		\$1,860.00
	5 Preferrred Alternate	2	\$534.00	\$0	\$0	\$0.00		\$534.00
	6 QA/QC	2	\$534.00	\$0	\$0	\$0.00		\$534.00
Task 6	Concept Design - Preferred Alternate	22	\$3,442.00	\$0.00	\$0.00	\$0.00		\$3,442.00
	1 GIs Based Concept Design Exhibits	22	\$3,442.00	\$0	\$0	\$0.00		\$3,442.00
SUB TOTAL		155	\$26,021.00	\$0.00	\$0.00	\$155.94		\$26,176.94

SUMMARY								
Project Location 1 (Shaddle to ComEd ROW)		1009	\$178,809.46	\$5,000.00	\$10,500.00	\$1,111.92	\$9,877.00	\$205,298.38
Project Location 2 (Comed ROW to Butterfield)		523	\$91,375.72	\$21,120.00	\$3,620.00	\$779.70	\$0.00	\$116,775.42
Project Location 3 (Railroad to shaddle)		238	\$42,229.40	\$3,000.00	\$3,620.00	\$779.70	\$0.00	\$46,009.10
Project Location 4 (IL Route 60/83 to Tullamore Dam		155	\$26,021.00	\$0.00	\$0.00	\$155.94	\$0.00	\$26,176.94
GRAND TOTAL		1925	\$338,435.58	\$29,120.00	\$17,740.00	\$2,827.26	\$9,877.00	\$394,259.84