



**CHRISTOPHER B. BURKE ENGINEERING, LTD.**

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April 22, 2026

Lake County Stormwater Management Commission  
500 West Winchester Road  
Libertyville, IL 60048

Attention: Kurt Woolford, PE – Executive Director

Subject: Proposal for Professional Engineering Design and Permitting  
Skokie River Regional Floodplain Enhancement Project  
Alternatives 1-4 Final Design and Permitting  
City of North Chicago, Lake County, IL

Dear Mr. Woolford:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to provide this proposal for professional engineering services related to the design and permitting of Alternatives 1-4 of the Skokie River Regional Floodplain Enhancement Project. Included below you will find our Understanding of the Assignment, Scope of Services and Fee Estimate.

**UNDERSTANDING OF THE ASSIGNMENT**

Severe flooding has occurred in the past at the Strawberry Condominiums Property, US41 (Skokie Highway), and the US Naval Base in North Chicago, IL. The flooding consists of overbank flooding from the Skokie River as well as insufficient storm sewer capacity to convey stormwater to the waterway. Severe flooding occurred most recently in July 2017, which damaged several of the condominium buildings and closed US41 for an extended period of time.

Over the past 6 years, CBBEL has worked with the stakeholder group to develop drainage improvement projects on the Skokie River in the vicinity of Strawberry Condominiums, US41 and the US Naval Base. This work has included detailed hydrologic and hydraulic modeling of the Skokie River between IL137 and IL176, as well as the US41 and North Chicago storm sewer system located west of the river. A baseline project including a new storm sewer under US41 has been developed to final engineering. Alternative 5, which includes drainage improvements in the vicinity of the northern Union Pacific Railroad culvert, has also progressed to final design level. Grant applications have been prepared, and significant coordination has occurred to progress these two projects through final design and further refine Alternatives 1-4.

Based on subsequent discussions, we understand that Lake County Stormwater Management Commission (SMC) would like to proceed with preliminary and final

engineering and permitting of the following plan elements as shown on the attached exhibit:

- Alternate 1 – Bittersweet Avenue Storm Sewer: The alternative includes approximately 1,200 linear feet of 36-inch diameter storm sewer and modifications to the Shorecrest Pond outlet control structure.
- Alternative 2 – Strawberry Condominium Storm Sewer Improvements: This includes removal and replacement of 490 linear feet of existing 18-inch to 24-inch diameter storm sewer with 36-inch to 42-inch diameter storm sewer within the Strawberry Condominium parking lots.
- Alternative 3 – Virginia Avenue and Alabama Avenue Culvert Improvements: This alternative includes the removal of the Virginia Avenue culvert crossing of the Skokie River within the US Naval Base and restoration of the channel. The alternative also includes the replacement of the existing 7'x4' elliptical Corrugated Metal Pipe (CMP) culvert crossing of the Skokie River at Alabama Avenue with a 12'x7' Reinforced Concrete Box Culvert (RCBC).
- Alternative 4 – Skokie River Two Stage Ditch on the US Naval Base: This alternative includes excavation along the Skokie River between Buckley Road and Virginia Avenue and between Alabama Avenue and the south property boundary (EJ&E Railroad). A two stage ditch will be designed to improve storage and conveyance within the waterway.

This Scope of Services includes the topographic survey, geotechnical borings, permitting and design of the proposed improvements for Alternatives 1-4. We will utilize our WBE subconsultant, Rubino Engineering, Inc. (Rubino), for geotechnical soil borings. They are a certified Women Business Enterprise (WBE). CBBEL staff will be utilized for the site topographic survey and will be assisted where possible by another WBE, Gasperec Elberts Consulting, LLC (GEC).

The Wetlands and Waters of the US delineations will be completed by CBBEL staff that have extensive experience in permitting activities in sensitive areas within the North Branch of the Chicago River Watershed.

The engineering design will utilize the geotechnical, survey and environmental data. The previously prepared hydrologic and hydraulic models will be updated based on the additional detailed data. The project benefits will be verified and will be considered as part of the final design.

The engineering design will include 65%, pre-final and final engineering submittals to SMC for review, and the pre-final plans will be submitted to the various regulatory agencies for permit review. It is anticipated that permits from the US Army Corps of Engineers (USACE), Illinois Environmental Protection Agency (IEPA), Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR) and others will be required. Additionally, easements and permits as necessary will be obtained from the various private property owners and US Naval Base. We have not included any federal permitting that may be required to complete the work on the US Naval Base.

As the design of the two stage channel improvements advances, additional environmental testing may be necessary due to the presence of contaminated soils on the US Naval Base. If necessary, supplemental environmental testing will be covered under a separate proposal in the future.

It is also anticipated that significant project coordination and stakeholder outreach will be required for this project, including the continuation of the monthly coordination meetings with the stakeholder group. It is anticipated that several coordination meetings will be required with the Skokie Consolidated Drainage District (SCDD), Strawberry Condominiums, US Navy staff, and others. Meetings will be virtual or in-person as necessary.

We anticipate that the initial work and 65% engineering plans (Tasks 1-11) can be completed within 8 months of notice to proceed. It is our understanding that the engineering design and permitting may be paused pending permitting at that point.

It is assumed that SMC will continue to handle the coordination with FEMA on the funding process and therefore no tasks for funding assistance are included in this proposal.

### **SCOPE OF SERVICES**

Task 1. Project Kickoff Meeting: CBBEL will hold a project kickoff meeting with the stakeholder group. The kickoff meeting will define the project scope and schedule as well as deliverables. Consensus of these items will be achieved at the kickoff meeting.

Task 2A. Project Topographic Survey: CBBEL will perform topographic survey of the following project corridors:

- 2A.1 – Bittersweet Avenue Storm Sewer
- 2A.2 – Strawberry Condominium Storm Sewer Improvements
- 2A.3 – Virginia Avenue and Alabama Avenue Culvert Improvements
- 2A.4 – Skokie River Two Stage Ditch on the US Navy Base

We understand that the work effort on US Navy property will likely be chaperoned, and that safety training may be required. The additional time and work effort have been included in the cost estimate for these activities.

The following scope items will be included in this task:

1. Horizontal Control: Utilizing state plane coordinates, CBBEL will tie into NGS Monumentation control utilizing state of the art GPS equipment. Horizontal Datum will correlate with established/existing NGS control monuments (NAD '83, Illinois East Zone 1201).
2. Vertical Control: We will establish site benchmarks for construction purposes, tied to the NAVD '88 Vertical Datum. State-of-the-art G.P.S. equipment will be used to establish benchmarks and assign a vertical datum on the horizontal control points. This will be based on GPS observed NGS control monuments (NAVD '88 Datum).

3. CBBEL will field locate all pavements, driveways, bike paths, curbs and gutters, pavement markings, signs, manholes, utility vaults, drainage structures, utilities, driveway culverts, crossroad culverts, etc. within the project limits.
4. CBBEL will field locate all trees of 6-inch caliper or greater within the survey limits (Tree Line only for heavily forested areas), and record tree size, location and elevation on survey.
5. Establish the approximate existing right-of-way of the roadways within the project limits based on monumentation found in the field, plats of highways, subdivision plats and any other available information.
6. CBBEL will survey cross sections along the project limits at 50' intervals, and at all other grade controlling features.
7. CBBEL will field-locate all aboveground utility infrastructure within the survey limits such as water, sanitary sewer, storm sewer, telephone, electric, cable and gas, etc. For each structure we will identify size, type, rim, and invert elevations.
8. Office contouring of field data and one-foot contour intervals.
9. Drafting the Existing Conditions Plan base sheets at a scale of 1"=20' for use during design.

Task 2B. J.U.L.I.E Coordination: CBBEL will coordinate with J.U.L.I.E. to retrieve atlas information for all applicable underground utilities including water main, gas, electric, cable, etc. CBBEL will compile all Utility Atlas information into the base map. Locations of existing utilities / obstructions / systems shown on the base map are the compilation of available utility plans provided by utility owners and J.U.L.I.E. Utility Coordination. All utilities / obstructions / systems may not be shown. Contractor shall be responsible for locating and protecting all underground utilities / obstructions / systems whether or not shown on base map. J.U.L.I.E. Utility Coordination Atlas information is typically isolated to Public Right-of-Way & limited areas adjacent to Public Right-of-Way. Identification of all private utilities within project area (on-site) is the responsibility of the client.

Task 3. Wetland/Waters Confirmation and Revised Report: The previous wetland delineation is nearly four years old. An investigation of the project site will be completed to confirm the limits of wetlands, waters of the United States, and of Lake County present. The delineation will be completed based on the methodology established by the USACE and accepted by Lake County. Also, during the site visit, wildlife and plant community qualities will be assessed. Any changes to the limits of the wetland and waters will be field staked so that they can be professionally surveyed in relation to the project coordinate system. CBBEL will also locate the delineated boundaries using a submeter accuracy handheld GPS unit. The data will be used to create required exhibits and project documentation.

We understand that work effort on US Navy property will likely be chaperoned and that safety training may be required. The additional time and work effort have been included in the cost estimate for these activities.

The results of the field reconnaissance will be summarized in a revised letter report. The wetlands' generalized quality ratings, according to the Swink and Wilhelm Methodology (1994), will be included along with exhibits depicting the approximate wetland and project boundaries, National Wetland Inventory, Soil Survey, floodplain, USGS topography, site photographs and their locations, and the USACE Routine On-Site Data Forms. If the delineation is field surveyed, that will be used as our base wetland boundary map, otherwise we will use the best available aerial photograph annotated with the GIS field location data.

Task 4. Request for Jurisdictional Determination and Wetland-Waters Boundary Confirmation: CBEL will submit a request for a Preliminary Jurisdictional Determination and Boundary Confirmation to Lake County SMC. If necessary, we will request a Jurisdictional Determination and Boundary Confirmation with the USACE.

Task 5. Threatened and Endangered Species Coordination: CBEL staff will complete coordination with the Illinois Department of Natural Resources (IDNR) and the United States Fish and Wildlife Service (USFWS) regarding threatened and endangered species.

CBEL will submit an Ecological Compliance Assessment Tool (EcoCAT) request to IDNR and complete the USFWS online Information for Planning and Consultation (IPaC) Section 7 of the Endangered Species Act coordination.

Please note that this Task only covers the initial coordination and submissions. If the Agencies require specific field studies for specific species, a supplemental proposal will be prepared to complete those field evaluations and complete the required additional threatened and endangered species coordination.

Task 6. Wetland Review Agency Coordination: During the course of the project, we expect to have meetings with the regulatory agencies, project engineer, and client. We also expect to have to prepare responses to comments received during the review process. We have budgeted for attendance at two meetings and include budget to cover the cost of submittal of two responses to comments. If additional meetings, or responses to comments, are required they will be billed on a time and materials basis.

Task 7. Geotechnical Investigation: Our team will include Rubino, who will perform a series of soil borings within the limits of the proposed improvement project areas to depths of 15 feet for the project locations below existing site grades. The borings will be extended to the proposed depths below the existing ground surface unless auger refusal causes them to be terminated at a shallower depth.

Upon completion of testing and engineering analysis, Rubino will prepare a written engineering report that presents their findings and recommendations. The engineering report will include the following items:

- a. Observations from the site reconnaissance including current site conditions, surface drainage features, and surface topographic conditions.
- b. A review of the published geologic conditions and their relevance to the planned improvement.
- c. A subsurface characterization and a description of the field exploration and laboratory tests performed. Ground water concerns relative to the planned construction, if any, will be summarized.
- d. Final logs of the soil borings and records of the field exploration prepared in accordance with the standard practice for geotechnical engineering. A boring location plan will be included, and the results of the laboratory tests will be plotted on the final boring logs or included on a separate test report sheet.
- e. Recommended allowable soil bearing pressure(s) and bearing elevations for the proposed sewer system and manhole structures and estimates of predicted foundation settlement (total and differential).
- f. Recommendations for earth retention systems for trenching construction including excavation recommendations, lateral earth pressure, below-grade drainage recommendations and below-grade wall backfill recommendations.
- g. Evaluation of the on-site soil characteristics encountered in the soil borings. Specifically, the suitability of the on-site materials for reuse as engineered fill to support grade slabs and pavements will be discussed. Compaction requirements and suitable material guidelines will also be included.
- h. Recommendations for additional testing and/or consultation that might be required to complete the geotechnical assessment and related engineering for this project.
- i. In an effort to determine what landfill (CCDD or non- CCDD) will be able to accept soils generated from future construction activities and to assist in determining approximate costs for future soil disposal activities, soil samples obtained during the geotechnical exploration exhibiting the greatest potential for possible impacts (visual, olfactory, PID readings, etc.) will be analyzed. Note that pre-sampling soils for compliance with the law will also assist in accommodating same day “dig and haul activities” and should reduce overall costs and the potential for delays associated with soil disposal activities.

This Task has been broken into the following sub-tasks:

- 7.1 – Bittersweet Avenue Storm Sewer
- 7.2 – Strawberry Condominium Storm Sewer Improvements
- 7.3 – Virginia Avenue and Alabama Avenue Culvert Improvements
- 7.4 – Two Stage Ditch (not included as previously completed)

Task 8. Evaluation of Geotechnical Report: CBBEL will evaluate the geotechnical report to determine the reconstructed pavement sections and review the soil analytics.

Task 9. Design Utility Coordination: CBBEL will continue the utility coordination we began during the topographic survey process, which included requesting atlases or plans of facilities within the project limits, including, but not limited to, AT&T, ComEd, Comcast, Verizon, North Shore Water Reclamation District, North Shore Gas and the NSGL utilities staff. Plans will be sent out to each utility company at the 65%, Pre-final 90%, and Final 100% Submittals. We expect significant coordination will be required with the various

utility companies and NSGL. We have not included pot-holing of utilities, if required, which we have assumed for this proposal will be completed by the utility companies. CBBEL will add any new information to the existing conditions plan and transmit improvement plans to the known, potentially impacted private utility companies for verification. Once potential conflicts are identified, CBBEL will coordinate with the utility companies to either avoid the conflicts or relocate the utility.

Task 10. Updated Hydrologic and Hydraulic Analysis: Based on the information collected in the previous tasks, CBBEL will update the hydrologic and hydraulic modeling that was previously completed for the study area. The XP-SWMM hydrologic and hydraulic modeling of the storm sewer system, as well as the unsteady HEC-RAS hydraulic modeling of the Skokie River, will be revised to determine the final storm sewer and two stage ditch details. The results of this task will be the basis of the design plans.

Task 11. Preliminary and Final Engineering, Contract Documents and Cost Estimate: Based on the modeling results and data collected, we will prepare engineering plans, specifications, and cost estimates for the following projects at the 65%, pre-final and final engineering stages. CBBEL will use IDOT standard pay items where applicable. Otherwise, project-specific special provisions will be written as needed. Plans, special provisions based on SMC standard special provisions, the estimate of cost, and working day calculation will be submitted to SMC for review.

The plans will be prepared in accordance with SMC and IDOT Standards for the following base project and alternatives.

- 11.1 – Bittersweet Storm Sewer
- 11.2 – Strawberry Condominium Storm Sewer Improvements
- 11.3 – Virginia Avenue and Alabama Avenue Culvert Improvements
- 11.4 – Skokie River Two Stage Ditch on the US Navy Base

The plans will be presented to SMC during the progress meetings and cost estimates will be prepared and updated during the various engineering phases.

The design hour breakdown for each project is attached to this proposal.

Task 12. Monthly Team Progress Meetings: Given the strong stakeholder engagement for this project, it is expected that the on-going monthly coordination meetings will continue through the next phases of the project. It is assumed that CBBEL will continue to lead the meetings with the stakeholder group. We have budgeted attendance and preparation time for one team member for approximately 24 monthly calls for this task.

Task 13. US Army Corps of Engineers Permitting: CBBEL Environmental Resources Staff will prepare individual USACE Permit Applications for each Design Alternative of the Project. Our understanding is that there are 4 Alternatives.

Each application package will include the required exhibits, specifications, data, and project information. This information will also be compiled and assembled for placement in a permit application package to the IEPA.

**We have assumed that each application will be processed as a Nationwide Permit. If the application is processed as an Individual Permit, a supplemental proposal will be prepared to cover the cost of the required additional services.**

Task 14. Interagency Wetland Policy Act (IWPA) Permitting: Because this project is receiving federal or state passthrough funding the project must comply with the IDNR regulated Interagency Wetland Policy Act wetland impact Permitting Process. The IWPA regulates all wetlands regardless of USACE regulation. CBBEL will prepare and submit the required documentation to the IDNR to obtain authorization for any jurisdictional or isolated wetland impacts. CBBEL will also provide coordination to obtain any required wetland mitigation for the project.

We have budgeted for attendance at up to 2 meetings for coordination and discussion before and during the permit application and processing. We have budgeted for preparation of 2 responses to comments.

Task 15. Lake County Watershed Development Permit: Based on the nature of the project, a Watershed Development Permit will be requested from SMC. The required submittal, including calculations, model results, and exhibits, will be prepared and submitted to SMC for approval. We propose having our WBE consultant, GEC, complete this permit application, with assistance from CBBEL staff. It is assumed that Alternatives 1 and 2 will be packaged together into one permit submittal and Alternatives 3 and 4 will be packaged together into a separate permit submittal, for a total of 2 permit submittals for the overall scope of improvements.

CBBEL Environmental Resources Staff will assist the project engineer in preparation of the wetland, waters, and buffer portions of the Watershed Development Permit Application. This information will include the required exhibits, specifications, data, and project information.

We have budgeted for attendance at up to 3 meetings for coordination and discussion before and during the permit application and processing. We have budgeted for preparation of 3 responses to comments.

Task 16. IEPA National Pollutant Discharge Elimination System (NPDES) Construction Permit: CBBEL will prepare a Stormwater Pollution Prevention Plan (SWPPP) for the proposed project in accordance with Part IV of the General NPDES Permit No. ILR10. CBBEL will include the soil erosion and sediment control plans (SESC) (prepared in the design task) with the SWPPP and submit an electronic copy of the SWPPP to the IEPA. We will prepare and submit a Notice of Intent (NOI) to the IEPA and a project notification submittal to Illinois State Historic Preservation Office (SHPO). It is assumed that Alternatives 1 and 2 will be packaged together into one permit submittal and Alternatives 3 and 4 will be packaged together into a separate permit submittal, for a total of two permit submittals for the overall scope of improvements.

Task 17. IDNR-OWR Floodway Construction Permit: The proposed two stage channel improvement involves work within the mapped regulatory floodway of the Skokie River. A Part 3708 Rules floodway construction permit will be required from the Illinois Department

of Natural Resources – Office of Water Resources. We will utilize our WBE consultant, GEC, to complete this permit application, with assistance from CBBEL staff.

Since changes to the existing Skokie River flood elevations are not anticipated as part of the scope of improvements, it is assumed that a FEMA Conditional Letter of Map Revision (CLOMR) will not be a permit requirement. If a CLOMR is determined to be a requirement as part of the IDNR-OWR permitting process, the CLOMR request will be prepared under a separate proposal.

Task 18. Plats of Easement: Temporary and permanent easements will be required over the storm sewers located on private property. This task will include the following:

1. Initial coordination with Client.
2. Research at the Lake County Recorder's Office.
3. Office calculations and plotting of field and record data.
4. CAD drafting of the drainage easement exhibit plat for the proposed easement areas.
5. Write the legal description for the proposed easement areas.
6. Final review and submittal by an Illinois Professional Land Surveyor.

This task has been broken into the following sub-tasks.

- 18.1 – Bittersweet Avenue Storm Sewer
- 18.2 – Strawberry Condominium Storm Sewer Improvements
- 18.3 – Virginia Avenue and Alabama Avenue Culvert Improvements: (Not required; assumed to be covered under next task)
- 18.4 – Skokie River Two Stage Ditch on the US Naval Base: This plat of easement is assumed to cover the SCDD easement over the Skokie River (50-ft on either side of stream centerline) through the limits of the two stage channel improvements.

Task 19. Bidding Assistance: Based on the design and permitting timeframe of the various alternatives, it is assumed that 2 bid packages will be required for the entire scope of improvements: Alternatives 1 and 2 will be packaged together into one bid package and Alternatives 3 and 4 will be combined into another bid package.

During the bidding phase our team will:

- Coordinate an electronic bidding process where interested contractors and material suppliers can purchase and download the bidding documents.
- Provide a list of qualified contractors to bid on the improvements.
- Facilitate the pre-bid meeting, project site tours, and bid opening.
- Prepare and submit addenda as needed.
- Respond to bid questions during the bidding period.
- Evaluate bids received. Prepare and submit a memorandum to SMC on its review, analysis, conclusions, and recommendation associated with the bids received. The memorandum shall also describe, explain, and summarize any

variances between the Engineer's estimate and apparent low bidder's bid breakdown. Check references submitted.

Task 20. Administration, QA/QC, and Constructability Reviews: CBBEL will prepare monthly status reports with our invoices to SMC. CBBEL will perform an internal QA/QC review of the plans, specifications and cost estimates led by an experienced designer that is not associated with the project's day-to-day plan development. Additional qualified senior quality reviewers will be assigned to review pending deliverables as needed. The following items will receive a comprehensive evaluation during QA/QC:

- Scoping/Field Checks
- Completeness of Submittals
- Design Calculations
- Computer Inputs/Outputs
- Compliance with documented Decisions and Directives
- Pay Items and Quantity Calculations
- Project Records

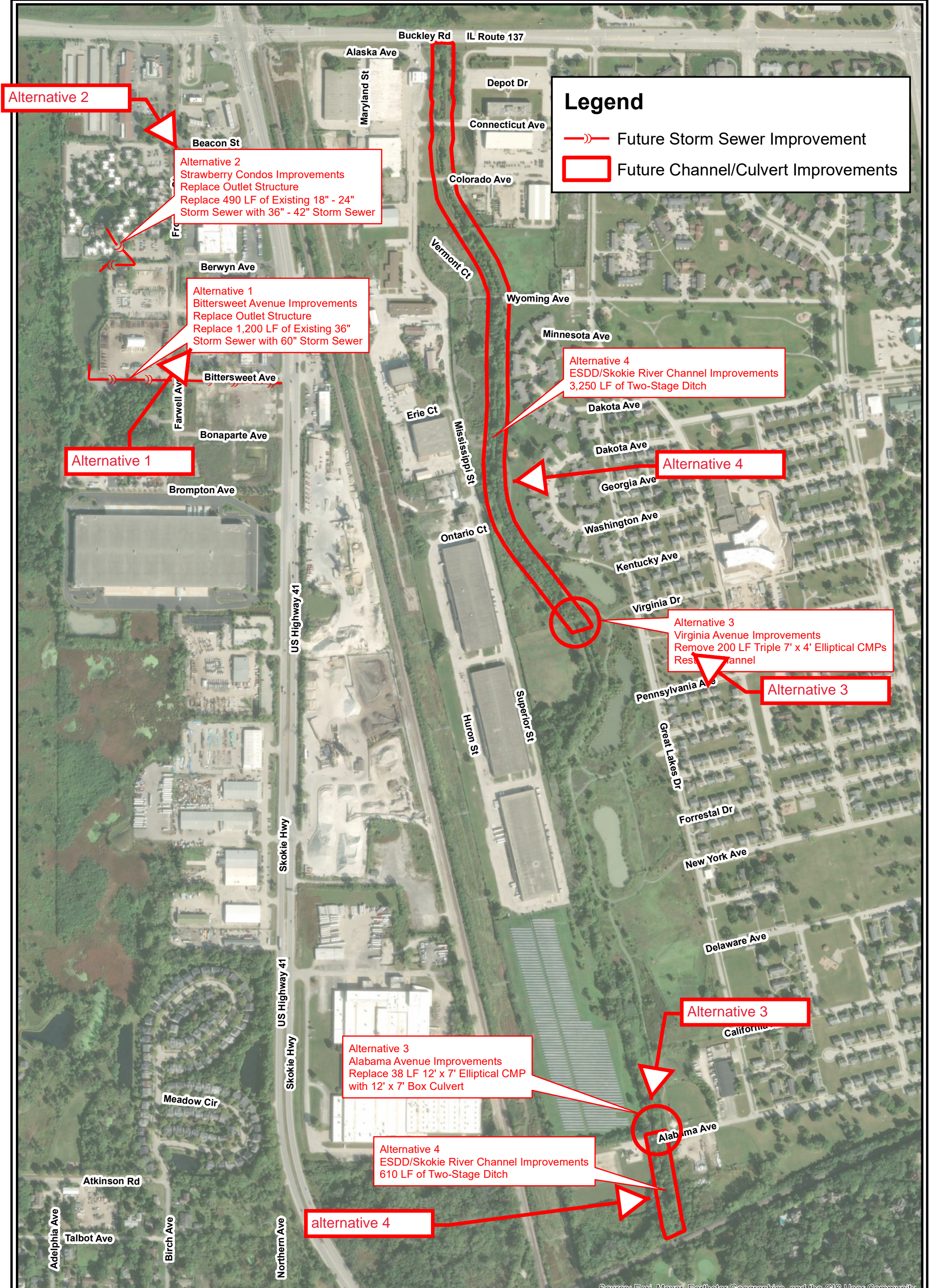
Plan reviews will also have the goal of optimizing the following parts of the design:

- Project constructability, with an emphasis on avoiding conflicts between existing conditions and the proposed work
- Construction using the proper methods and materials
- Potential alternate solutions that would increase economies of scale or shorten the schedule
- Best workflow that minimizes temporary widening or other temporary construction
- Construction traffic staging that maximizes the public safety while giving the Contractor sufficient working room and safe working conditions
- Plans, specifications, and cost and time estimates that communicate the design as clearly as possible and are free from internal contradictions, correctible drafting errors, or important omissions.

### **FEE ESTIMATE**

Our total fee estimate for the proposed scope of work is **\$749,085**, which includes approximately 8% spend from the WBE sub-consultants. A detailed breakdown of the fee estimate by task is enclosed with this proposal. We will not exceed this fee without prior authorization from SMC. The permit fees from the various review agencies have been included in the direct costs of the proposal.

We will bill you at the hourly rates specified on the attached fee estimate and establish our contract in accordance with the attached General Terms and Conditions. Direct costs for blueprints, photocopying, mailing, overnight delivery, messenger services and report compilation are included in the fee estimate. These General Terms and Conditions are expressly incorporated into and are an integral part of this contract for professional services. Please note that any requested meetings or additional services are not included in the preceding fee estimate and will be billed at the attached hourly rates.



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Scale: 1 inch = 500 feet

DSGN.	LJS	CHKD.
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CLIENT	LAKE COUNTY SMC	PROJECT NO.	220179	
TITLE	US 41/SKOKIE RIVER DRAINAGE ALTERNATIVES EXHIBIT		DATE	4/17/26
			EXHIBIT A	

DATE  
4/17/26  
EXHIBIT A

Lake County SMC- Skokie River Regional Floodplain Enhancement Project Alternatives 1-4 Design and Permitting

CBBEL WORK HOURS & FEE ESTIMATE  
4/22/2026

Task	Description	ENG VI	ENG V	ENG IV	ENG III	ENG I/II	ENV V	ENV IV	SURVEY V	SURVEY IV	SURVEY III	SURVEY II	SURVEY I	CAD MANAGER	Asst. CAD Manager	TOTAL HOURS	CBBEL Fee	Subconsultant Fee*	TOTAL
1	Project Kickoff Meeting	4	6				4									14	\$ 3,660.00		\$ 3,660.00
2A.1	Alternative 1 Project Topographic Survey - Bittersweet Storm Sewer								1	2	2	24	24	12		65	\$ 11,410.00		\$ 11,410.00
2A.2	Alternative 2 Project Topographic Survey - Strawberry Condos								1	2	2	20	20	10		55	\$ 9,700.00		\$ 9,700.00
2A.3	Alternative 3 Project Topographic Survey - Virginia and Alabama Culverts								1	2	2	12	12	4		33	\$ 5,830.00		\$ 5,830.00
2A.4	Alternative 4 Project Topographic Survey - Two Stage Ditch on Navy Base								3	6	12	144	144	68		377	\$ 65,400.00		\$ 65,400.00
2B	JULIE Coordination										60					60	\$ 12,900.00		\$ 12,900.00
3	Wetland/Waters Confirmation and Revised Report						32	16							8	56	\$ 12,600.00		\$ 12,600.00
4	Request for Jurisdictional Determination and Wetland/Waters Boundary Confirmation						12								2	14	\$ 3,330.00		\$ 3,330.00
5	Threatened and Endangered Species Coordination						12	10								22	\$ 5,050.00		\$ 5,050.00
6	Wetland Review Agency Coordination		4				42	32								78	\$ 18,060.00		\$ 18,060.00
7.1	Alternative 1 - Geotechnical Investigation*															0	\$ -	\$ 9,495.00	\$ 9,495.00
7.2	Alternative 2 - Geotechnical Investigation*															0	\$ -	\$ 9,495.00	\$ 9,495.00
7.3	Alternative 3 - Geotechnical Investigation*															0	\$ -	\$ 9,640.00	\$ 9,640.00
7.4	Alternative 4 - Geotechnical Investigation*															0	\$ -	\$ -	\$ -
8	Evaluation of Geotechnical Report		10	8	12											30	\$ 6,500.00		\$ 6,500.00
9	Design Utility Coordination		10	24		60										94	\$ 17,560.00		\$ 17,560.00
10	Updated Hydrologic and Hydraulic Analysis	8	40		60											108	\$ 23,720.00		\$ 23,720.00
11.1	Alternative 1 - Preliminary and Final Engineering, Contract Documents and Cost Estimate		21	106	29	30								32	32	250	\$ 50,980.00		\$ 50,980.00
11.2	Alternative 2 - Preliminary and Final Engineering, Contract Documents and Cost Estimate		15	76	15	30								23	23	182	\$ 36,860.00		\$ 36,860.00
11.3	Alternative 3 - Preliminary and Final Engineering, Contract Documents and Cost Estimate		17	84	17	30								25	25	198	\$ 40,240.00		\$ 40,240.00
11.4	Alternative 4 - Preliminary and Final Engineering, Contract Documents and Cost Estimate		90	190	154	80	24							60	60	658	\$ 135,210.00		\$ 135,210.00
12	Monthly Team Progress Meetings		72													72	\$ 18,000.00		\$ 18,000.00
13	US Army Corps of Engineers Permitting						48	25								79	\$ 18,115.00		\$ 18,115.00
14	Interagency Wetland Policy Act Permitting						54	16							6	76	\$ 17,770.00		\$ 17,770.00
15	Lake County Watershed Development Permit*			4			42	24							6	76	\$ 17,270.00	\$ 12,000.00	\$ 29,270.00
16	IEPA NPDES Construction Permit - SWPPP and NOI Submittal							72								72	\$ 14,760.00		\$ 14,760.00
17	IDNR-OWR Floodway Construction Permit*	6		12												18	\$ 4,320.00	\$ 19,500.00	\$ 23,820.00
18.1	Alternative 1 - Plats of Easement								4	24	4	18	18	24		92	\$ 18,570.00		\$ 18,570.00
18.2	Alternative 2 - Plats of Easement								3	24	3	16	16	18		80	\$ 16,125.00		\$ 16,125.00
18.3	Alternative 3 - Plats of Easement															0	\$ -		\$ -
18.4	Alternative 4 - Plats of Easement								48	24	6	32	32	40		182	\$ 38,010.00		\$ 38,010.00
19	Bidding Assistance		24	15		20										59	\$ 12,525.00		\$ 12,525.00
20	Phase II Administration, QAQC and Constructability Reviews	8	20	80			60	12								180	\$ 41,980.00		\$ 41,980.00
	<b>TOTAL</b>	<b>26</b>	<b>329</b>	<b>599</b>	<b>287</b>	<b>250</b>	<b>330</b>	<b>207</b>	<b>61</b>	<b>84</b>	<b>91</b>	<b>266</b>	<b>266</b>	<b>316</b>	<b>168</b>	<b>3280</b>	<b>\$ 676,455.00</b>	<b>\$ 60,130.00</b>	<b>\$ 736,585.00</b>
																	<b>\$ 12,500.00</b>		<b>\$ 12,500.00</b>
																	<b>\$ 688,955.00</b>	<b>\$ 60,130.00</b>	<b>\$ 749,085.00</b>

Rate (SMC 2026) \$ 290.00 \$ 250.00 \$ 215.00 \$ 190.00 \$ 165.00 \$ 250.00 \$ 205.00 \$ 250.00 \$ 235.00 \$ 215.00 \$ 170.00 \$ 145.00 \$ 225.00 \$ 165.00

\* Subconsultant includes Women Business Enterprises (Rubino and Gasperec Elberts)

WBE Spend = 8%