

ORDINANCE NO. 229423

AN ORDINANCE AUTHORIZING THE EXECUTION OF AN AGREEMENT WITH  
CHRSTOPHER B. BURKE ENGINEERING, LTD. – INDIAN CREEK ROAD  
RESURFACING/CULVERT REPLACEMENT/STREAMBANK STABILIZATION DESIGN  
ENGINEERING SERVICES

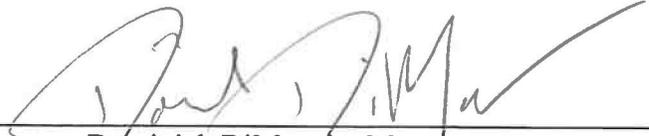
BE IT ORDAINED by the Mayor and Board of Trustees of the Village of Hawthorn  
Woods, Illinois, that the Mayor and Village Clerk be and the same are, hereby authorized and  
directed to execute an agreement with Christopher B. Burke Engineering, Ltd., substantially in  
the form attached hereto as "Exhibit A", and, by this reference made a part hereof.

The foregoing Ordinance was adopted on November 27, 2023 by a roll call vote as  
follows:

AYES: Kaiser, McCarty, Reiche, Bayer, Hurst

NAYS: 0

ABSENT AND NOT VOTING: Raman

APPROVED:   
Dominick DiMaggio, Mayor

ATTEST:   
Donna Lobaito, Village Clerk

ADOPTED: November 27, 2023

APPROVED: November 27, 2023



Exhibit "A"

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

9575 W Higgins Road, Suite 600 Rosemont, Illinois 60018-4920 Tel (847) 823-0500 Fax (847) 823-0520

October 5, 2023

Village of Hawthorn Woods  
35 Old McHenry Road  
Hawthorn Woods, IL 60047

Attention: Pam Newton, Chief Operating Officer

Subject: Proposal for Professional Engineering Design Services  
Indian Creek Road Resurfacing/Culvert Replacement/Streambank  
Stabilization Project

Dear Pam:

At your request, Christopher B. Burke Engineering, Ltd. (CBBEL) is providing this proposal for professional engineering services related to the design and preparation of construction documents for the resurfacing on Indian Creek Road from N. Gilmer Road to Village Corporate limits, replacement of the Indian Creek Culvert and Streambank Stabilization along Indian Creek Project. It is our understanding that the Village will utilize local funds for Design Engineering. Included below you will find our Understanding of the Assignment, Scope of Services and Estimate of Fee.

**UNDERSTANDING OF THE ASSIGNMENT**

We understand the Village would like to utilize STP funding for the resurfacing of Indian Creek Road from N. Gilmer Road to the Village Corporate limits (approximately 6,635 feet). The scope of the project will include replacement of the existing 80 inch Corrugated Metal Pipe (CMP) culvert under Indian Creek Road. The proposed culvert crossing will likely be a Reinforced Concrete Box Culvert (RCBC) with a precast end section and wingwalls with an 8-inch-thick concrete pavement. Along each side of the roadway and tied into the culvert headwall would be a barrier wall. The resurfacing of Indian Creek Road plans will complete the design of the project in 2023 for fiscal year 2024 Federal letting with the intent to complete Phase I and Phase II Engineering for the project.

The project consists of resurfacing and includes the grinding 2 inches of the existing hot-mix pavement, patching poor areas, the installation of 1.5 inches of Hot-Mix Asphalt

Surface Course and 0.75 inches of Leveling Binder, as well as structure adjustments, patching poor areas.

We understand Ela Township will fund a portion of the project from the intersection of Indiana Creek Road and Gilmer Road to 100-feet east within their corporate limits.

Lastly, CBBEL will prepare a separate set of engineering plans for the creek stabilization along Indian Creek approximately 50 feet to the south along the downstream side of the box culvert and 50 feet from centerline at Indian Creek at the bend downstream and to the west.

### **SCOPE OF SERVICES**

**Task 1 – Phase II Kick-Off Meeting:** As our initial task in our Phase II Engineering, the CBBEL team will meet with the Village to review the Phase II Engineering goals and objectives. The scope and schedule will also be reviewed and refined. A separate Phase II kickoff meeting with IDOT will also be held.

**Task 2 - Topographic Survey:** As part of this task, CBBEL will perform 1) Full Topographic Survey Indian Creek Road (100'LF East and West of Ditch Culvert, from ROW to ROW with a 10' overlap), 2) Ditch Topographic Survey (two ditch areas within 50' of the South R-O-W of Indian Creek Road, from top of bank to top of bank with 10' overlap 3) Culvert Detail Survey. CBBEL will perform the following survey tasks within project limits:

**Horizontal Control:** Utilizing state plane coordinates, CBBEL will set recoverable primary control utilizing state of the art GPS equipment based on NGS Control Monumentation.

**Vertical Control:** CBBEL will establish benchmarks and assign elevations to the horizontal control points. This will be based on GPS observed Lake County Control Monumentation (NAVD'88 vertical control datum).

**Existing Right-of-Way:** CBBEL will 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.

**Topographic Survey:** CBBEL will field locate all pavements, driveways, curb and gutters, pavement markings, signs, manholes, utility vaults, drainage structures, utilities, driveway culverts, crossroad culverts, etc. within the project limits. Establish all rim and invert elevations, utility sizes & type, depth subterranean structure, etc., at all points of access to below-grade utilities.

**Stream Survey:** CBBEL will field locate stream thalweg, centerline stream profile and stream bed cross sections at 25' intervals which shall extend approximately 25' on either side of channel centerline. A total of 200± LF of stream topographic survey will be performed related to the above referenced site.

**Cross Sections:** CBBEL will survey cross sections along the project limits at 50' intervals, at driveways, and at all other grade controlling features. Survey will be obtained for 10 feet beyond the existing right-of-way line.

**Utility Survey and Coordination:** All existing storm and sanitary sewers will be surveyed to determine rim and invert elevations and pipe sizes. Above ground facilities of any additional underground utilities including water main, gas, electric, cable, etc. will also be located.

**Tree Survey:** CBBEL will locate lone trees over 6" inches in diameter and only the tree line for wooded areas, if any, within the limits associated with the project. The located trees will be identified by species (deciduous or coniferous) and the size.

**Base Mapping:** CBBEL will compile all of the above information onto one base map at 1"=20' scale that is representative of existing conditions for use as the base sheet for the construction of any public or private infrastructure subsequent to the findings of engineering/drainage analysis.

**Task 3 – J.U.L.I.E Utility Coordination:** CBBEL will coordinate with JULIE 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 JULIE 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. JULIE 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 4 – Easement Exhibits and Legal Descriptions:** CBBEL will complete the following tasks for the two easements for the streambank stabilization portion.

1. Initial coordination with Client.
2. Research with the Lake County Recorder's Office.
3. Field survey to establish the existing boundaries of the subject parcels.
4. Office calculations and plotting of field and record data.
5. CAD drafting of the easement exhibits for the proposed easement areas.
6. Write the legal descriptions for the proposed easement areas.
7. Final review and submittal by an Illinois Professional Land Surveyor.

**Task 5 – Field and Data Review:** CBBEL will conduct a site review of the project area to assess existing project conditions and photograph/document key site features and conditions. CBBEL will collect, examine, review and evaluate data to be utilized for the development of the proposed improvements, which includes determining which existing structures are brick and will need to be replaced. This data may include the following, although much of this information is anticipated to be retrieved as part of Phase I Engineering:

- 1" = 100' aerial photography
- 1" = 100' topographic maps
- Village utility maps for water and sewer
- Village design details
- Electronic copies of the Village's standard contract documents
- Existing construction plans
- Review of all existing structures

**Task 6A – Geotechnical Investigation-Indian Creek Road Resurfacing:** A Geotechnical Investigation will be performed by CBBEL's subconsultant, Testing Services Corporation (TSC). The Geotechnical Investigation will include soil borings (approximately 10 cores) and pavement cores at a frequency to determine the existing structure of the pavement and condition of subgrade materials. Due to concern of the depth of existing pavement thickness we would recommend TSC completing the geotechnical report to verify the existing thickness of the bituminous pavement. This will allow us to verify that the correct improvement is proposed for the roadways. This assumes no flagman are required to take the cores.

The objectives of the Study are to determine whether the associated laboratory analysis provide a basis for TSC to sign IEPA Form LPC-663, Unincorporated Soil Certification by a Licensed Professional Engineer.

Uncontaminated soil including uncontaminated soil mixed with clean construction for demolition debris (CCDD) accepted at a CCDD fill operation must be certified to be uncontaminated soil in accordance with Section 22.51(f)(2)(B) of the Environmental Protection Act {415 ILCS 5/22 (f)(2)(B)}. Uncontaminated soil accepted at an uncontaminated soil fill operation (USFO) must be certified to be uncontaminated soil in accordance with Section 22.51a(d)(2)(B) of the Environmental Protection Act {415 ILCS 5/22.51a(d)(2)(B)}. These certifications must be made by a licensed professional engineer or geologists (PE/PG) using the attached Form LPC-663 when the soil is removed from a site which is determined by the PE/PG to be a "Potentially Impacted Property" (PIP) based on review of readily ascertainable property history, environmental databases and site reconnaissance. Uncontaminated soil from a site which is not identified as a PIP by the PE/PG may be certified by either the source site owner or operator using LPC-662 with pH analysis only.

A summary report will be prepared which describes the sampling procedures followed and presents results of the analytical laboratory testing. If all analytical results meet their

respective MACs, Form LPC-663 will be filled out and signed by a Licensed Professional Engineer or Geologist. The report will be included.

**Task 6B – Geotechnical Services-Indian Creek Road Culvert Replacement:** Three (3) soil borings at 30 feet deep will be obtained as part of the Geotechnical Exploration by Testing Services Corporation (TSC) for design of the precast concrete box culvert, end sections/headwalls, and barrier walls and compliance with the Clean Construction Demolition Debris (CCDD).

The report will give complete pavement and base surface thickness as well as subgrade description and laboratory test dates. Comments will also be made concerning proposed pavement overlay and/or maintenance.

We recommend that the CCDD/USFO facility destination to be used for this project be contacted to verify the analytical parameters proposed will be sufficient.

The objectives of the Study are to determine whether the associated laboratory analysis provides a basis for TSC to sign IEPA Form LPC-663, Unincorporated Soil Certification by a Licensed Professional Engineer.

Uncontaminated soil including uncontaminated soil mixed with clean construction for demolition debris (CCDD) accepted at a CCDD fill operation must be certified to be uncontaminated soil in accordance with Section 22.51(f)(2)(B) of the Environmental Protection Act {415 ILCS 5/22 (f)(2)(B)}. Uncontaminated soil accepted at an uncontaminated soil fill operation (USFO) must be certified to be uncontaminated soil in accordance with Section 22.51a(d)(2)(B) of the Environmental Protection Act {415 ILCS 5/22.51a(d)(2)(B)}. These certifications must be made by a licensed professional engineer or geologists (PE/PG) using the attached Form LPC-663 when the soil is removed from a site which is determined by the PE/PG to be a "Potentially Impacted Property" (PIP) based on review of readily ascertainable property history, environmental databases and site reconnaissance. Uncontaminated soil from a site which is not identified as a PIP by the PE/PG may be certified by either the source site owner or operator using LPC-662 with pH analysis only.

A summary report will be prepared which describes the sampling procedures followed and presents results of the analytical laboratory testing. If all analytical results meet their respective MACs, Form LPC-663 will be filled out and signed by a Licensed Professional Engineer or Geologist. The report will be included.

**Task 6C – Evaluation of Geotechnical Report:** CBBEL will evaluate the geotechnical report to determine the resurfacing treatment and box culvert replacement for the project.

**Task 7 – Watershed Development and Floodway Construction Permit:** The project is located in the regulatory floodplain and floodway of Indian Creek. The culvert replacement project consists of a public development project in the floodplain and floodway. A Watershed Development Permit (WDP) from Lake County Stormwater Management Commission (SMC) and Permit 3708 Floodway Construction Permit from the Illinois Department of Natural Resource – Office of Water Resources (IDNR-OWR).

CBBEL will prepare the hydraulic modeling for the culvert replacement using the Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS) regulatory hydraulic model.

CBBEL will prepare the WDP submittal and Floodway Construction Permit submittal including the required narrative, calculations, and exhibits for the culvert replacement project. The streambank project will fall under IDNR-OWR Regional Permit #3 and will not require an individual permit from IDNR-OWR. The streambank work may require a WDP from Lake County SMC depending on the design details and permit timing.

**Task 8 – Wetland Delineation, Stream Evaluation, and Bat Tree Study:** An investigation of the project site will be completed to delineate the limits of wetlands and waters of the United States present. The delineation will be completed based on the methodology established by the U.S. Army Corps of Engineers (USACE). Also, during the site visit, wildlife and plant community qualities will be assessed. The limits of the wetland community will be field staked so that they can be professionally surveyed by others in relation to the project coordinate system. We also will locate the delineated boundaries using a submeter accuracy handheld GPS unit.

While CBBEL Environmental Resources staff are on site they will complete an evaluation of the streambank to assist in the design of the streambank stabilization and to collect supporting information for inclusion in the permit applications.

Additionally, while CBBEL Environmental Resources staff are on site, they will complete an evaluation of trees within the culvert replacement and streambank stabilization for potential bat habitat. This information will support coordination with IDNR and the USFWS and will be needed as part of the permitting process for the Corps of Engineers and Lake County.

**Task 9 – Wetland Waters Letter Report, Streambank Evaluation, and Bat Tree Letter Report:** The results of the Task 8 field reconnaissance will be summarized in a letter report. The wetlands' generalized quality ratings, per 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 U.S. Army Corps of Engineers (COE) 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.

This task will include coordination with Lake County to complete a wetland boundary confirmation and preliminary jurisdictional determination, preparation of a memo regarding the existing streambank conditions and design options, and a memorandum regarding bat habitat trees within the streambank stabilization area and culvert replacement.

**Task 10 – U.S. Army Corps of Engineers (USACE) Nationwide Permit Application Preparation and Submittals:** The culvert replacement and streambank stabilization projects will require authorization from the USACE likely under Nationwide Permit Numbers 3 and 13. CBBEL will prepare the required exhibits, specifications, data, and project information for the Nationwide Permit application package and will submit the

application to the USACE. We will coordinate the development of documents with you and other project team members.

This task will include coordination with the Illinois Department of Natural Resources and the US Fish and Wildlife Service regarding threatened and endangered species.

This task will also include coordination with the McHenry-Lake County Soils and Water Conservation District (MLSWCD). The Corps of Engineers will likely require that the MLSWCD review the soil erosion and sediment control plans for the projects.

**Task 11 – Lake County Wetland Submittal Preparation:** CBBEL will prepare wetland and buffer portions of the WDP Application. This information will include the required exhibits, specifications, data, and project information.

**Task 12 – Plan Sheets, Specifications, and Estimates - Indian Creek Road:** On the basis of the approved BLR 19100, CBBEL will prepare pre-final contract documents consisting of plans, specifications, estimate of time, status of utilities to be adjusted and estimate of construction cost. The plans and specifications will be in accordance with Village and IDOT design criteria and submitted for review to the Department of Public Works for the State letting.

Sheet	# of Sheets	Hours/ Sheet	Total Hours
Title Sheet	1	6	6
General Notes and Summary of Quantities	1	6	6
Typical Sections (Existing and Proposed)	1	8	8
Existing Conditions/Removal and Proposed Plan Sheets	11	6	66
Construction Details	2	4	8
IDOT Details	4	1	4
Specifications			8
Cost Estimates/Quantities			6
<b>TOTAL</b>	<b>20</b>		<b>112</b>

**Task 13 – Plan Sheets, Specifications, and Estimates-Indian Creek Box Culvert Replacement:** CBBEL will prepare plan sheets and specifications for the proposed work in accordance with IDOT standards. We have assumed the Village will utilize a typical IDOT guardrail in place of a proposed parapet at the headwalls. The end sections are assumed to be IDOT precast end sections. Custom cast in place end sections or headwalls are not included in this estimate and will be an added cost if needed. If the geotechnical report requires additional foundation support by piles or other means, design costs will need to be added. The plan sheets and specifications will be submitted to the Village for review. The following will be completed:

Sheet	# of Sheets	Hours/ Sheet	Total Hours
Box Culvert General Plan and Elevation	1	16	16
General Notes and Summary of Quantities	1	12	12
Existing Conditions and Removal Sheet	1	12	12
Section/Details	2	12	24
Wingwall/Headwall Details	2	12	24
Structural Details and Notes	1	6	6
Railing Details	1	12	12
Coordination with Geotech			4
Field Visit			4
Review Existing Plans			4
Specifications			6
Engineers Opinion of Probable Cost			8
<b>TOTAL</b>	<b>9</b>		<b>132</b>

Prefinal Plans, Specifications, and Estimates will be submitted to the Village and IDOT for review.

**Task 14 – Plan Sheets, Specifications, and Estimates Indian Creek Streambank Stabilization:** CBBEL will prepare plans and specifications for the stream bank stabilization project. The plans and specifications will be submitted for review to the EGPD and will be used for the required permit applications.

**Task 15 – Bidding Assistance:** CBBEL will advertise for bidding, distribute plans and specifications to all bidders, and hold a bid opening for the non-federal projects. CBBEL will review and tabulate all of the bids and make recommendations of award.

**Task 16 – Coordination Meetings**

CBBEL has assumed that two coordination meetings will be required with the Village and IDOT regarding the projects.

## ESTIMATED FEE

We have determined the following costs for each of the tasks described in this proposal.

Task 1	Phase I/II Kick-Off Meeting	\$ 500
Task 2	Topographic Survey	\$ 4,900
Task 3	J.U.L.I.E	\$ 850
Task 4	Easement Exhibits and Legal Descriptions	\$ 6,868
Task 5	Field Data and Review	\$ 750
Task 6A	Geotechnical Investigation-Indian Creek Road Resurfacing	\$ 7,000
Task 6B	Geotechnical Services-Indian Creek Road Culvert Replacement	\$ 8,675
Task 6C	Evaluation of Geotechnical Report	\$ 500
Task 7	Watershed Development and Floodway Construction Permit	\$ 8,500
Task 8	Wetland Delineation, Streambank Evaluation, and Bat Tree Study	\$ 3,500
Task 9	Wetland Waters Letter Report, Streambank Evaluation, and Bat Tree Letter Report	\$ 4,500
Task 10	U.S. Army Corps of Engineers (USACE) Regional Permit Application Preparation and Submittals	\$ 3,000
Task 11	Lake County Wetland Submittal Coordination	\$ 3,000
Task 12	Plan Sheets, Specifications, and Estimates - Indian Creek Road	\$ 10,000
Task 13	Plan Sheets, Specifications, and Estimates-Indian Creek Box Culvert Replacement	\$ 18,500
Task 14	Plan Sheets, Specifications, and Estimates Indian Creek Streambank Stabilization	\$ 16,000
Task 15	Bidding Assistance	\$ 1,000
Task 16	Coordination Meetings	\$ 1,000
	<b>TOTAL</b>	<b>\$ 98,043</b>

We will bill you at the hourly rates specified on the attached Schedule of Charges and General Terms and Conditions. Direct costs for blueprints, photocopying, mailing, overnight delivery, messenger services and report compilation are not 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. It should be emphasized that any requested additional services that are not included in the preceding Fee Estimate will be billed at the attached hourly rates.

Please sign and return one copy of this agreement as an indication of acceptance and notice to proceed. Please feel free to contact us anytime.

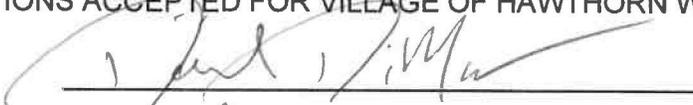
Sincerely,



Michael E. Kerr, PE  
President

Encl. Schedule of Charges  
General Terms and Conditions

THIS PROPOSAL, SCHEDULE OF CHARGES AND GENERAL TERMS AND CONDITIONS ACCEPTED FOR VILLAGE OF HAWTHORN WOODS.

BY:   
TITLE: Mayor  
DATE: 11/27/23

**CHRISTOPHER B. BURKE ENGINEERING, LTD.  
STANDARD CHARGES FOR PROFESSIONAL SERVICES  
JANUARY 2023**

<u>Personnel</u>	<u>Charges*</u> <u>(\$/Hr)</u>
Engineer VI	265
Engineer V	220
Engineer IV	180
Engineer III	160
Engineer I/II	135
Survey V	240
Survey IV	220
Survey III	190
Survey II	160
Survey I	120
Engineering Technician V	210
Engineering Technician IV	175
Engineering Technician III	125
Engineering Technician I/II	85
CAD Manager	200
CAD II	145
GIS Specialist III	165
Landscape Architect	190
Landscape Designer I/II	110
Environmental Resource Specialist V	225
Environmental Resource Specialist IV	180
Environmental Resource Specialist III	145
Environmental Resource Specialist I/II	100
Environmental Resource Technician	130
Administrative	110
Engineering Intern	70
Information Technician III	150
Information Technician I/II	120
 <u>Direct Costs</u>	
Outside Copies, Blueprints, Messenger, Delivery Services, Mileage	Cost + 12%

\*Charges include overhead and profit

Christopher B. Burke Engineering, Ltd. reserves the right to increase these rates and costs by 5% after December 31, 2023.

CHRISTOPHER B. BURKE ENGINEERING, LTD.  
GENERAL TERMS AND CONDITIONS

1. Relationship Between Engineer and Client: Christopher B. Burke Engineering, Ltd. (Engineer) shall serve as Client's professional engineer consultant in those phases of the Project to which this Agreement applies. This relationship is that of a buyer and seller of professional services and as such the Engineer is an independent contractor in the performance of this Agreement and it is understood that the parties have not entered into any joint venture or partnership with the other. The Engineer shall not be considered to be the agent of the Client. Nothing contained in this Agreement shall create a contractual relationship with a cause of action in favor of a third party against either the Client or Engineer.

Furthermore, causes of action between the parties to this Agreement pertaining to acts of failures to act shall be deemed to have accrued and the applicable statute of limitations shall commence to run not later than the date of substantial completion.

2. Responsibility of the Engineer: Engineer will strive to perform services under this Agreement in accordance with generally accepted and currently recognized engineering practices and principles, and in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, express or implied, and no warranty or guarantee is included or intended in this Agreement, or in any report, opinion, document, or otherwise.

Notwithstanding anything to the contrary which may be contained in this Agreement or any other material incorporated herein by reference, or in any Agreement between the Client and any other party concerning the Project, the Engineer shall not have control or be in charge of and shall not be responsible for the means, methods, techniques, sequences or procedures of construction, or the safety, safety precautions or programs of the Client, the construction contractor, other contractors or subcontractors performing any of the work or providing any of the services on the Project. Nor shall the Engineer be responsible for the acts or omissions of the Client, or for the failure of the Client, any architect, engineer, consultant, contractor or subcontractor to carry out their respective responsibilities in accordance with the Project documents, this Agreement or any other agreement concerning the Project. Any provision which purports to amend this provision shall be without effect unless it contains a reference that the content of this condition is expressly amended for the purposes described in such amendment and is signed by the Engineer.

3. Changes: Client reserves the right by written change order or amendment to make changes in requirements, amount of work, or engineering time schedule adjustments, and Engineer and Client shall negotiate appropriate adjustments acceptable to both parties to accommodate any changes, if commercially possible.
4. Suspension of Services: Client may, at any time, by written order to Engineer (Suspension of Services Order) require Engineer to stop all, or any part, of the services required by this Agreement. Upon receipt of such an order, Engineer shall immediately comply with its terms and take all reasonable steps to minimize the costs associated with the services affected by such order. Client, however, shall pay all costs incurred by the suspension, including all costs necessary to maintain continuity and for the

resumptions of the services upon expiration of the Suspension of Services Order. Engineer will not be obligated to provide the same personnel employed prior to suspension, when the services are resumed, in the event that the period of suspension is greater than thirty (30) days.

5. Termination: This Agreement may be terminated by either party upon thirty (30) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. This Agreement may be terminated by Client, under the same terms, whenever Client shall determine that termination is in its best interests. Cost of termination, including salaries, overhead and fee, incurred by Engineer either before or after the termination date shall be reimbursed by Client.
6. Documents Delivered to Client: Drawings, specifications, reports, and any other Project Documents prepared by Engineer in connection with any or all of the services furnished hereunder shall be delivered to the Client for the use of the Client. Engineer shall have the right to retain originals of all Project Documents and drawings for its files. Furthermore, it is understood and agreed that the Project Documents such as, but not limited to reports, calculations, drawings, and specifications prepared for the Project, whether in hard copy or machine readable form, are instruments of professional service intended for one-time use in the construction of this Project. These Project Documents are and shall remain the property of the Engineer. The Client may retain copies, including copies stored on magnetic tape or disk, for information and reference in connection with the occupancy and use of the Project.

When and if record drawings are to be provided by the Engineer, Client understands that information used in the preparation of record drawings is provided by others and Engineer is not responsible for accuracy, completeness, nor sufficiency of such information. Client also understands that the level of detail illustrated by record drawings will generally be the same as the level of detail illustrated by the design drawing used for project construction. If additional detail is requested by the Client to be included on the record drawings, then the Client understands and agrees that the Engineer will be due additional compensation for additional services.

It is also understood and agreed that because of the possibility that information and data delivered in machine readable form may be altered, whether inadvertently or otherwise, the Engineer reserves the right to retain the original tapes/disks and to remove from copies provided to the Client all identification reflecting the involvement of the Engineer in their preparation. The Engineer also reserves the right to retain hard copy originals of all Project Documentation delivered to the Client in machine readable form, which originals shall be referred to and shall govern in the event of any inconsistency between the two.

The Client understands that the automated conversion of information and data from the system and format used by the Engineer to an alternate system or format cannot be accomplished without the introduction of inexactitudes, anomalies, and errors. In the event Project Documentation provided to the Client in machine readable form is so converted, the Client agrees to assume all risks associated therewith and, to the fullest

extent permitted by law, to hold harmless and indemnify the Engineer from and against all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees, arising therefrom or in connection therewith.

The Client recognizes that changes or modifications to the Engineer's instruments of professional service introduced by anyone other than the Engineer may result in adverse consequences which the Engineer can neither predict nor control. Therefore, and in consideration of the Engineer's agreement to deliver its instruments of professional service in machine readable form, the Client agrees, to the fullest extent permitted by law, to hold harmless and indemnify the Engineer from and against all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees, arising out of or in any way connected with the modification, misinterpretation, misuse, or reuse by others of the machine readable information and data provided by the Engineer under this Agreement. The foregoing indemnification applies, without limitation, to any use of the Project Documentation on other projects, for additions to this Project, or for completion of this Project by others, excepting only such use as may be authorized, in writing, by the Engineer.

7. Reuse of Documents: All Project Documents including but not limited to reports, opinions of probable costs, drawings and specifications furnished by Engineer pursuant to this Agreement are intended for use on the Project only. They cannot be used by Client or others on extensions of the Project or any other project. Any reuse, without specific written verification or adaptation by Engineer, shall be at Client's sole risk, and Client shall indemnify and hold harmless Engineer from all claims, damages, losses, and expenses including attorney's fees arising out of or resulting therefrom.

The Engineer shall have the right to include representations of the design of the Project, including photographs of the exterior and interior, among the Engineer's promotional and professional materials. The Engineer's materials shall not include the Client's confidential and proprietary information if the Client has previously advised the Engineer in writing of the specific information considered by the Client to be confidential and proprietary.

8. Standard of Practice: The Engineer will strive to conduct services under this agreement in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as of the date of this Agreement.
9. Compliance With Laws: The Engineer will strive to exercise usual and customary professional care in his/her efforts to comply with those laws, codes, ordinance and regulations which are in effect as of the date of this Agreement.

With specific respect to prescribed requirements of the Americans with Disabilities Act of 1990 or certified state or local accessibility regulations (ADA), Client understands ADA is a civil rights legislation and that interpretation of ADA is a legal issue and not a design issue and, accordingly, retention of legal counsel (by Client) for purposes of interpretation is advisable. As such and with respect to ADA, Client agrees to waive any action against Engineer, and to indemnify and defend Engineer against any claim arising from Engineer's alleged failure to meet ADA requirements prescribed.

Further to the law and code compliance, the Client understands that the Engineer will strive to provide designs in accordance with the prevailing Standards of Practice as previously set forth, but that the Engineer does not warrant that any reviewing agency having jurisdiction will not for its own purposes comment, request changes and/or additions to such designs. In the event such design requests are made by a reviewing agency, but which do not exist in the form of a written regulation, ordinance or other similar document as published by the reviewing agency, then such design changes (at substantial variance from the intended design developed by the Engineer), if effected and incorporated into the project documents by the Engineer, shall be considered as Supplementary Task(s) to the Engineer's Scope of Service and compensated for accordingly.

10. Indemnification: Engineer shall indemnify and hold harmless Client up to the amount of this contract fee (for services) from loss or expense, including reasonable attorney's fees for claims for personal injury (including death) or property damage to the extent caused by the sole negligent act, error or omission of Engineer.

Client shall indemnify and hold harmless Engineer under this Agreement, from loss or expense, including reasonable attorney's fees, for claims for personal injuries (including death) or property damage arising out of the sole negligent act, error omission of Client.

In the event of joint or concurrent negligence of Engineer and Client, each shall bear that portion of the loss or expense that its share of the joint or concurrent negligence bears to the total negligence (including that of third parties), which caused the personal injury or property damage.

Engineer shall not be liable for special, incidental or consequential damages, including, but not limited to loss of profits, revenue, use of capital, claims of customers, cost of purchased or replacement power, or for any other loss of any nature, whether based on contract, tort, negligence, strict liability or otherwise, by reasons of the services rendered under this Agreement.

11. Opinions of Probable Cost: Since Engineer has no control over the cost of labor, materials or equipment, or over the Contractor(s) method of determining process, or over competitive bidding or market conditions, his/her opinions of probable Project Construction Cost provided for herein are to be made on the basis of his/her experience and qualifications and represent his/her judgement as a design professional familiar with the construction industry, but Engineer cannot and does not guarantee that proposal, bids or the Construction Cost will not vary from opinions of probable construction cost prepared by him/her. If prior to the Bidding or Negotiating Phase, Client wishes greater accuracy as to the Construction Cost, the Client shall employ an independent cost estimator Consultant for the purpose of obtaining a second construction cost opinion independent from Engineer.
12. Governing Law & Dispute Resolutions: This Agreement shall be governed by and construed in accordance with Articles previously set forth by (Item 9 of) this Agreement, together with the laws of the **State of Illinois**.

Any claim, dispute or other matter in question arising out of or related to this Agreement, which can not be mutually resolved by the parties of this Agreement, shall be subject to mediation as a condition precedent to arbitration (if arbitration is agreed upon by the parties of this Agreement) or the institution of legal or equitable proceedings by either party. If such matter relates to or is the subject of a lien arising out of the Engineer's services, the Engineer may proceed in accordance with applicable law to comply with the lien notice or filing deadlines prior to resolution of the matter by mediation or by arbitration.

The Client and Engineer shall endeavor to resolve claims, disputes and other matters in question between them by mediation which, unless the parties mutually agree otherwise, shall be in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect. Requests for mediation shall be filed in writing with the other party to this Agreement and with the American Arbitration Association. The request may be made concurrently with the filing of a demand for arbitration but, in such event, mediation shall proceed in advance of arbitration or legal or equitable proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order.

The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

13. Successors and Assigns: The terms of this Agreement shall be binding upon and inure to the benefit of the parties and their respective successors and assigns: provided, however, that neither party shall assign this Agreement in whole or in part without the prior written approval of the other.
14. Waiver of Contract Breach: The waiver of one party of any breach of this Agreement or the failure of one party to enforce at any time, or for any period of time, any of the provisions hereof, shall be limited to the particular instance, shall not operate or be deemed to waive any future breaches of this Agreement and shall not be construed to be a waiver of any provision, except for the particular instance.
15. Entire Understanding of Agreement: This Agreement represents and incorporates the entire understanding of the parties hereto, and each party acknowledges that there are no warranties, representations, covenants or understandings of any kind, matter or description whatsoever, made by either party to the other except as expressly set forth herein. Client and the Engineer hereby agree that any purchase orders, invoices, confirmations, acknowledgments or other similar documents executed or delivered with respect to the subject matter hereof that conflict with the terms of the Agreement shall be null, void & without effect to the extent they conflict with the terms of this Agreement.
16. Amendment: This Agreement shall not be subject to amendment unless another instrument is duly executed by duly authorized representatives of each of the parties and entitled "Amendment of Agreement".

17. Severability of Invalid Provisions: If any provision of the Agreement shall be held to contravene or to be invalid under the laws of any particular state, county or jurisdiction where used, such contravention shall not invalidate the entire Agreement, but it shall be construed as if not containing the particular provisions held to be invalid in the particular state, country or jurisdiction and the rights or obligations of the parties hereto shall be construed and enforced accordingly.
18. Force Majeure: Neither Client nor Engineer shall be liable for any fault or delay caused by any contingency beyond their control including but not limited to acts of God, wars, strikes, walkouts, fires, natural calamities, or demands or requirements of governmental agencies.
19. Subcontracts: Engineer may subcontract portions of the work, but each subcontractor must be approved by Client in writing.
20. Access and Permits: Client shall arrange for Engineer to enter upon public and private property and obtain all necessary approvals and permits required from all governmental authorities having jurisdiction over the Project. Client shall pay costs (including Engineer's employee salaries, overhead and fee) incident to any effort by Engineer toward assisting Client in such access, permits or approvals, if Engineer perform such services.
21. Designation of Authorized Representative: Each party (to this Agreement) shall designate one or more persons to act with authority in its behalf in respect to appropriate aspects of the Project. The persons designated shall review and respond promptly to all communications received from the other party.
22. Notices: Any notice or designation required to be given to either party hereto shall be in writing, and unless receipt of such notice is expressly required by the terms hereof shall be deemed to be effectively served when deposited in the mail with sufficient first class postage affixed, and addressed to the party to whom such notice is directed at such party's place of business or such other address as either party shall hereafter furnish to the other party by written notice as herein provided.
23. Limit of Liability: The Client and the Engineer have discussed the risks, rewards, and benefits of the project and the Engineer's total fee for services. In recognition of the relative risks and benefits of the Project to both the Client and the Engineer, the risks have been allocated such that the Client agrees that to the fullest extent permitted by law, the Engineer's total aggregate liability to the Client for any and all injuries, claims, costs, losses, expenses, damages of any nature whatsoever or claim expenses arising out of this Agreement from any cause or causes, including attorney's fees and costs, and expert witness fees and costs, shall not exceed the total Engineer's fee for professional engineering services rendered on this project as made part of this Agreement. Such causes included but are not limited to the Engineer's negligence, errors, omissions, strict liability or breach of contract. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

24. Client's Responsibilities: The Client agrees to provide full information regarding requirements for and about the Project, including a program which shall set forth the Client's objectives, schedule, constraints, criteria, special equipment, systems and site requirements.

The Client agrees to furnish and pay for all legal, accounting and insurance counseling services as may be necessary at any time for the Project, including auditing services which the Client may require to verify the Contractor's Application for Payment or to ascertain how or for what purpose the Contractor has used the money paid by or on behalf of the Client.

The Client agrees to require the Contractor, to the fullest extent permitted by law, to indemnify, hold harmless, and defend the Engineer, its consultants, and the employees and agents of any of them from and against any and all claims, suits, demands, liabilities, losses, damages, and costs ("Losses"), including but not limited to costs of defense, arising in whole or in part out of the negligence of the Contractor, its subcontractors, the officers, employees, agents, and subcontractors of any of them, or anyone for whose acts any of them may be liable, regardless of whether or not such Losses are caused in part by a party indemnified hereunder. Specifically excluded from the foregoing are Losses arising out of the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs, or specifications, and the giving of or failure to give directions by the Engineer, its consultants, and the agents and employees of any of them, provided such giving or failure to give is the primary cause of Loss. The Client also agrees to require the Contractor to provide to the Engineer the required certificate of insurance.

The Client further agrees to require the Contractor to name the Engineer, its agents and consultants as additional insureds on the Contractor's policy or policies of comprehensive or commercial general liability insurance. Such insurance shall include products and completed operations and contractual liability coverages, shall be primary and noncontributing with any insurance maintained by the Engineer or its agents and consultants, and shall provide that the Engineer be given thirty days, unqualified written notice prior to any cancellation thereof.

In the event the foregoing requirements, or any of them, are not established by the Client and met by the Contractor, the Client agrees to indemnify and hold harmless the Engineer, its employees, agents, and consultants from and against any and all Losses which would have been indemnified and insured against by the Contractor, but were not.

When Contract Documents prepared under the Scope of Services of this contract require insurance(s) to be provided, obtained and/or otherwise maintained by the Contractor, the Client agrees to be wholly responsible for setting forth any and all such insurance requirements. Furthermore, any document provided for Client review by the Engineer under this Contract related to such insurance(s) shall be considered as sample insurance requirements and not the recommendation of the Engineer. Client agrees to have their own risk management department review any and all insurance requirements for adequacy and to determine specific types of insurance(s) required for the project. Client further agrees that decisions concerning types and amounts of insurance are

specific to the project and shall be the product of the Client. As such, any and all insurance requirements made part of Contract Documents prepared by the Engineer are not to be considered the Engineer's recommendation, and the Client shall make the final decision regarding insurance requirements.

25. Information Provided by Others: The Engineer shall indicate to the Client the information needed for rendering of the services of this Agreement. The Client shall provide to the Engineer such information as is available to the Client and the Client's consultants and contractors, and the Engineer shall be entitled to rely upon the accuracy and completeness thereof. The Client recognizes that it is impossible for the Engineer to assure the accuracy, completeness and sufficiency of such information, either because it is impossible to verify, or because of errors or omissions which may have occurred in assembling the information the Client is providing. Accordingly, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Engineer and the Engineer's subconsultants harmless from any claim, liability or cost (including reasonable attorneys' fees and cost of defense) for injury or loss arising or allegedly arising from errors, omissions or inaccuracies in documents or other information provided by the Client to the Engineer.

26. Payment: Client shall be invoiced once each month for work performed during the preceding period. Client agrees to pay each invoice within thirty (30) days of its receipt. The client further agrees to pay interest on all amounts invoiced and not paid or objected to for valid cause within said thirty (30) day period at the rate of eighteen (18) percent per annum (or the maximum interest rate permitted under applicable law, whichever is the lesser) until paid. Client further agrees to pay Engineer's cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees, as well as costs attributed to suspension of services accordingly and as follows:

Collection Costs. In the event legal action is necessary to enforce the payment provisions of this Agreement, the Engineer shall be entitled to collect from the Client any judgement or settlement sums due, reasonable attorneys' fees, court costs and expenses incurred by the Engineer in connection therewith and, in addition, the reasonable value of the Engineer's time and expenses spent in connection with such collection action, computed at the Engineer's prevailing fee schedule and expense policies.

Suspension of Services. If the Client fails to make payments when due or otherwise is in breach of this Agreement, the Engineer may suspend performance of services upon five (5) calendar days' notice to the Client. The Engineer shall have no liability whatsoever to the Client for any costs or damages as a result of such suspension caused by any breach of this Agreement by the Client. Client will reimburse Engineer for all associated costs as previously set forth in (Item 4 of) this Agreement.

27. When construction observation tasks are part of the service to be performed by the Engineer under this Agreement, the Client will include the following clause in the construction contract documents and Client agrees not to modify or delete it:

Kotecki Waiver. Contractor (and any subcontractor into whose subcontract this clause is incorporated) agrees to assume the entire liability for all personal injury claims suffered by its own employees, including without limitation claims under the Illinois Structural Work Act, asserted by persons allegedly injured on the Project; waives any limitation of liability defense based upon the Worker's Compensation Act, court interpretations of said Act or otherwise; and to the fullest extent permitted by law, agrees to indemnify and hold harmless and defend Owner and Engineer and their agents, employees and consultants (the "Indemnitees") from and against all such loss, expense, damage or injury, including reasonable attorneys' fees, that the Indemnitees may sustain as a result of such claims, except to the extent that Illinois law prohibits indemnity for the Indemnitees' own negligence. The Owner and Engineer are designated and recognized as explicit third party beneficiaries of the Kotecki Waiver within the general contract and all subcontracts entered into in furtherance of the general contract.

28. Job Site Safety/Supervision & Construction Observation: The Engineer shall neither have control over or charge of, nor be responsible for, the construction means, methods, techniques, sequences of procedures, or for safety precautions and programs in connection with the Work since they are solely the Contractor's rights and responsibilities. The Client agrees that the Contractor shall supervise and direct the work efficiently with his/her best skill and attention; and that the Contractor shall be solely responsible for the means, methods, techniques, sequences and procedures of construction and safety at the job site. The Client agrees and warrants that this intent shall be carried out in the Client's contract with the Contractor. The Client further agrees that the Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work; and that the Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to all employees on the subject site and all other persons who may be affected thereby. The Engineer shall have no authority to stop the work of the Contractor or the work of any subcontractor on the project.

When construction observation services are included in the Scope of Services, the Engineer shall visit the site at intervals appropriate to the stage of the Contractor's operation, or as otherwise agreed to by the Client and the Engineer to: 1) become generally familiar with and to keep the Client informed about the progress and quality of the Work; 2) to strive to bring to the Client's attention defects and deficiencies in the Work and; 3) to determine in general if the Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Engineer shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. If the Client desires more extensive project observation, the Client shall request that such services be provided by the Engineer as Additional and Supplemental Construction Observation Services in accordance with the terms of this Agreement.

The Engineer shall not be responsible for any acts or omissions of the Contractor, subcontractor, any entity performing any portions of the Work, or any agents or employees of any of them. The Engineer does not guarantee the performance of the

Contractor and shall not be responsible for the Contractor's failure to perform its Work in accordance with the Contract Documents or any applicable laws, codes, rules or regulations.

When municipal review services are included in the Scope of Services, the Engineer (acting on behalf of the municipality), when acting in good faith in the discharge of its duties, shall not thereby render itself liable personally and is, to the maximum extent permitted by law, relieved from all liability for any damage that may accrue to persons or property by reason of any act or omission in the discharge of its duties. Any suit brought against the Engineer which involve the acts or omissions performed by it in the enforcement of any provisions of the Client's rules, regulation and/or ordinance shall be defended by the Client until final termination of the proceedings. The Engineer shall be entitled to all defenses and municipal immunities that are, or would be, available to the Client.

29. Insurance and Indemnification: The Engineer and the Client understand and agree that the Client will contractually require the Contractor to defend and indemnify the Engineer and/or any subconsultants from any claims arising from the Work. The Engineer and the Client further understand and agree that the Client will contractually require the Contractor to procure commercial general liability insurance naming the Engineer as an additional named insured with respect to the work. The Contractor shall provide to the Client certificates of insurance evidencing that the contractually required insurance coverage has been procured. However, the Contractor's failure to provide the Client with the requisite certificates of insurance shall not constitute a waiver of this provision by the Engineer.

The Client and Engineer waive all rights against each other and against the Contractor and consultants, agents and employees of each of them for damages to the extent covered by property insurance during construction. The Client and Engineer each shall require similar waivers from the Contractor, consultants, agents and persons or entities awarded separate contracts administered under the Client's own forces.

30. Hazardous Materials/Pollutants: Unless otherwise provided by this Agreement, the Engineer and Engineer's consultants shall have no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials/pollutants in any form at the Project site, including but not limited to mold/mildew, asbestos, asbestos products, polychlorinated biphenyl (PCB) or other toxic/hazardous/pollutant type substances.

Furthermore, Client understands that the presence of mold/mildew and the like are results of prolonged or repeated exposure to moisture and the lack of corrective action. Client also understands that corrective action is a operation, maintenance and repair activity for which the Engineer is not responsible.

June 13, 2005

P:\Proposals\Terms and Conditions\GT&C 2005.061305.doc