


Municipality Lake County Division of Transportation	 Illinois Department of Transportation	L O C A L A G E N C Y	Name SPACECO, Inc.
Township			Address 9575 West Higgins Road, Suite700
County Lake			City Rosemont
Section 08-00244-02FD			State Illinois
Preliminary Engineering Services Agreement For Non-Motor Fuel Tax Funds		C O N S U L T A N T	

THIS AGREEMENT is made and entered into this 14th day of April, 2009 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Non-Motor Fuel Tax Funds, allotted to the LA by the State of Illinois, under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Section Description

Name Midlothian Road Extension

Route CH 48 Length 0.57 Mi. 3000.00 FT (Structure No.)

Termini Fairgrounds entrance to Moorhead Circle

Description:
Extend Midlothian Road from existing terminus north to Moorehead Circle. Include drainage in storm sewer and open ditch drainage culvert crossing at STA. 27 +50

Agreement Provisions

The Engineer Agrees,

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
 - a. Make such detailed surveys as are necessary for the preparation of detailed roadway plans
 - b. Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
 - c. Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
 - d. Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
 - e. Prepare Army Corps of Engineers Permit, **Lake County Stormwater Management Commission Permit**, Department of Natural Resources-Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.
 - f. Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
 - g. Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with **one (1) copy of each document in both hardcopy and electronic format**. Additional copies of any or all documents, if required, shall be furnished to the LA by the ENGINEER at the ENGINEER's actual cost for reproduction.
 - h. Furnish the LA with survey and drafts in **duplicate** of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
 - i. Assist the LA in the tabulation and interpretation of the contractors' proposals

- j. Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
- k. Prepare the Project Development Report when required by the DEPARTMENT.
- l. **Services as included and/or defined in the attached Scope of Services.**

2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the LA of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
3. To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
4. In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work without expense to the LA, even though final payment has been received by the ENGINEER. The ENGINEER shall give immediate attention to these changes so there will be a minimum delay to the CONTRACTOR.
5. That basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
6. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will show the ENGINEER's professional seal where such is required by law.

The LA Agrees,

1. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT according to the following method indicated by a check mark:
 - a. A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
 - b. A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	(see note)
Under \$50,000	_____	%
	_____	%
	_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing such work plus 143.33 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus an additional service charge of up to five (5) percent.

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

The Total Not-to-Exceed Contract Amount shall be \$157143.31

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by section 1 of the ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in sections 1 and 3 of the ENGINEER AGREES and prior to the completion of such services, the LA shall reimburse the ENGINEER for the ENGINEER's actual costs plus 100 percent incurred up to the time the ENGINEER is notified in writing of such abandonment - "actual cost" being defined as in paragraph 2 of the LA AGREES.
5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of the ENGINEER AGREES, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 143.33 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 2 of the LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of the ENGINEER's responsibility to prepare a complete and adequate set of plans and specifications.

It is Mutually Agreed,

1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with section 4 of the LA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
4. That the ENGINEER warrants that the ENGINEER has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that the ENGINEER's has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in triplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

County of Lake of the
(Municipality/Township/County)

ATTEST: State of Illinois, acting by and through its

By County Board

Lake County Clerk By

(Seal)

Title Chairman of the County Board

RECOMMENDED FOR EXECUTION

Martin G. Buehler, P.E.
Director of Transportation/County Engineer
Lake County

Executed by the ENGINEER:

SPACECO, Inc.
Engineering Firm
9575 W. Higgins Road, Suite 700
Street Address
Rosemont, Illinois 60018
City, State

ATTEST:

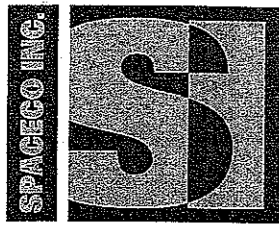
By Robert Stawik

Title CFO

By Bob Duffly

Title Vice President

Note: Three (3) Original Executed Contracts - (2) LCDOT; (1) Consultant



9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

Revised April 1, 2009
March 31, 2009

VIA MAIL & EMAIL

Ms. Paula Trigg
Lake County Division of Transportation
600 Winchester Road
Libertyville, Illinois 60048

**RE: PROFESSIONAL SURVEYING & ENGINEERING SERVICES PROPOSAL
MIDLOTHIAN ROAD EXTENSION
LIBERTYVILLE, ILLINOIS
SPACECO Project No. 5340.03**

Dear Ms. Trigg:

In response to your request, SPACECO, Inc. is pleased to provide you with this proposal for professional surveying and engineering services related to the extension of Midlothian Road in Libertyville and Grayslake, Illinois. The following describes our Understanding of the Assignment, Scope of Services and Fee.

SPACECO, Inc is a member of the Burke Group. We will be utilizing the expertise of Christopher B. Burke Engineering, LTD (CBBEL) as a sub-consultant for some of the tasks listed below.

UNDERSTANDING OF THE ASSIGNMENT

THE PLAN

- The proposed plan is to provide Phase II engineering services to extend and reconstruct Midlothian Road approximately 3,000 L.F. The plan includes construction of the roadway and drainage improvements. The design will be for the Extension of Midlothian Road from Station 17+50 to 47+50 where the road currently terminates. Work outside of these limits is not included.
- This scope of work is based on the proposed Midlothian Road alignment prepared by Lake County DOT from Peterson Road to STA. 17+50.

- SPACECO, Inc. has prepared a permit set of plans for the Midlothian Road extension from STA 17+50 to 32+00. These plans will have to be modified to meet the scope of work in this proposal.
- This scope includes new design of Midlothian Road from STA 32+00 to 47+50.
- The County will be constructing the bike path along the west side of Midlothian Road from Peterson Road to approximately STA 47+50. We will incorporate the original design plans into our set for bidding purposes of the proposed bike path from Peterson Road to STA.17+50.
- We will provide electronic copies of Plans, Specifications and cost estimates to the County as well as our Microstation Cadd files.

THE SITE

- The site is currently vacant or existing Harris Road.
- Floodplain does not exist on site.
- Wetlands exist near the roadway extension. Wetland Permits will be acquired for this scope of Work. Wetland impacts will be mitigated in an existing LCDOT wetland bank.

THE WORK

- Extension of Existing Midlothian Road and Reconstruction of Harris Road.

ASSUMPTIONS

In preparing this proposal, we have attempted to provide you with a complete package of the engineering services anticipated at this point in time. In doing so, we have made some assumptions, based on the available information, which will need to be verified during the engineering process. If any findings differ from these assumptions, additional design may be needed, which will be considered in a separate agreement for services after the limits of work are clarified.

- The site was never used for storage of hazardous materials.
- The sewers will flow by gravity with no lift stations.
- A demolition plan of the existing utilities is not required.

- There will be no encroachment into the 100-year floodplain.
- Since detention has been provided off-site for Midlothian Road, detention analysis and design will not be required except as noted in tasks 20 and 21.
- A drainage study and design for any drainage identified as located outside of the project area is not included. Storm sewer design will incorporate the required conveyance of upstream tributary areas.
- Roadway jurisdictional transfer documents are not included.
- Harris Road will be closed south of the Metra Station. Maintenance of traffic plans are not required for this project. The plan set will include a detour plan for re-routing traffic when Harris/ Midlothian Road is closed. If Maintenance of Traffic Plans are needed a separate scope of work will be prepared.
- R.O.W. documents will not be required. If plats for R.O.W. are required, a separate scope of services will be prepared.
- We will be provided cadd and paper copies of the existing boundary/ R.O.W. linework and topographic survey of the project area.
- Geotechnical Investigation is not included.

PROVIDED BY OTHERS

- Preliminary Site Plan
- Permitting (Except As Noted)
- Environmental Assessments, Mitigation, Or Clean-Up
- Design of the Buildings
- Design of Landscaping
- Traffic Analysis
- Soils Reports
- Topographic Survey (Except as noted)
- Boundary Survey/R.O.W. Survey (except for plats of easements listed below)

SCOPE OF BASIC SERVICES

SECTION I- ORIGINAL PERMIT SET FOR STA. 17+50 -32 +00

TASK 1.0 – ORIGINAL MIDLOTHIAN ROAD PERMIT PLANS: We will utilize the previously developed roadway improvement plans prepared by SPACECO, Inc. under the previous contract with McShane Development Corporation. The plans were approximately 90% complete for the permit with LCDOT. We will incorporate the design into the plans set for the improvements from STA 17+50 to STA 47+50.

SECTION II – PERMIT SET REVISIONS STA.17+50 – STA. 32+00

TASK 2.0 – PERMIT SET REVISIONS: The original permit set as prepared in Task 1.0 will be modified to incorporate the following:

- Revisions per LCDOT comments
- Lake County DOT Letting format
- Remove the Spur Road from the Plans
- Revise the taper at the north end to be full pavement width Cross-Sections, P&P Striping, etc.
- Add Schedule of quantities for this area.
- Incorporate these plans into Phase II Engineering plans proposed under section III of this proposal.

TASK 3.0 – REVISED CULVERT SIZING: (If Required) The emergency overflow from the Lake County Fairgrounds stormwater management basin located west of Harris Road will need to be conveyed under the proposed Midlothian Road extension. The 100-year spillway discharge was obtained from the Manhard Consulting Lake County Fairgrounds proposed conditions stormwater report. An original HY-8 culvert model was used to determine the required culvert size. Due to a potential grading conflict at the downstream of the proposed culvert, new calculations may be required to change the box culvert sizing.

TASK 4.0: RE-DESIGN OF CAST-IN-PLACE CONCRETE CULVERTS ENDS AND PRECAST CONCRETE BOX CULVERTS (If Required): Due to potential grading conflicts at the downstream end of the proposed box culvert at STA. 27+50, the original box culvert design may need to be modified. This is a result of work proposed in Task 3.0.

CBBEL will prepare structural plans for the re-design of dual precast concrete box culverts that pass under Harris Road. The plans will include an elevation view, plan view, sections and details. CBBEL will callout the size of the precast box culverts and the contractor shall be required to submit shop drawings signed and sealed by a Structural Engineer licensed in the State of Illinois for review.

CBBEL will prepare structural plans for the cast-in-place concrete end sections. The end sections will consist of headwalls, cut off toe walls, wingwalls and connection of the proposed precast boxes to the cast in place portions. The design plans will include a plan view, elevation view, sections and details. CBBEL will callout the general rebar sizes and spacing. The contractor shall be required to submit detailed shop drawings to CBBEL for review.

CBBEL will also prepare the necessary specifications, cost estimate and list of quantities for the cast-in-place concrete end portions and precast concrete box culverts.

The plans submitted by CBBEL will be signed and sealed by a Structural Engineer licensed in the State of Illinois.

TASK 5.0- SHOP DRAWING REVIEW: CBBEL will review the detailed rebar shop drawings submitted by the contractor for the cast in place culvert ends. CBBEL will also review the shop drawings for the precast concrete box culvert that is submitted by the contractor. The scope of this proposal anticipates CBBEL will review each shop drawing with a maximum of one re-submittal. Additional re-submitted shop drawings are not included in this proposal and will be billed at the hourly rates specified in the attached Schedule of Charges.

- SPACECO, Inc. will provide the necessary survey and grading information for the layout of the precast box culverts to CBBEL in electronic format.
- The structural design plans prepared by CBBEL will be incorporated by SPACECO, Inc. into their plan set.

TASK 6.0 – JAWA WATERMAIN COORDINATION: Based on the final design of Midlothian Road, we will coordinate the grading over the watermain and the utility crossings with JAWA. We will attend meetings and provide exhibits as necessary to comply with JAWA requirements. This does not include the design of the watermain relocate if required by the County. Relocation design will be prepared by JAWA.

TASK 7.0 – ASSIST LCDOT WITH COM ED LICENSE AGREEMENT FOR ROADWAY CROSSING: We will attend meetings and prepare exhibits as required to assist LCDOT in obtaining the necessary license agreement with Com Ed for the roadway crossing. We anticipate one meeting with ComEd.

TASK 8.0 – PLAT OF EASEMENT FOR OFF-SITE GRADING (if Required): Due to existing grades downstream of the proposed pond overflow culvert at STA 27+50, grading easements from the property owner may be required. We will prepare the easement document showing the proposed limits of the easements.

TASK 9.0 – OFF-SITE GRADING PLAN (If Required): We will prepare the off-site grading plan associated with Task 8.0 above for the use in negotiating the proposed easement with the property owner.

SECTION III – PHASE II ENGINEERING FOR STA.32+00 -47+50

TASK 10.0 –COORDINATION MEETINGS: Coordination with the Village of Grayslake, Village of Libertyville, Fremont Township, and Lake County Fair Association and will be required throughout the project to coordinate this project with other possible projects and developments. We anticipate that four coordination meetings will be required.

TASK 11.0- UTILITY COORDINATION: SPACECO will send preliminary plans to all utility companies that own facilities within the project limits. Once the utilities have verified the location of their facilities, we will identify potential conflicts, and will set up meetings to discuss necessary utility relocations or plan adjustments. The scheduling of the necessary utility relocation work will also be reviewed in the coordination meetings. We anticipate six meetings with individual utility companies will be required.

TASK 12.0 – ADDITIONAL TOPOGRAPHIC SURVEY: We will contact J.U.L.I.E. to locate the existing utilities along Harris Road between the railroad and Moorhead Circle. If J.U.L.I.E. is unresponsive, it is our understanding that LCDOT will contact JAWA and Northshore Gas to request a field locate the existing utilities in this area. SPACECO will field locate the existing ground markings for each utilities in the area. This includes 1 day of survey.

If we are required to do supplemental topographic survey on railroad property, a railroad flagger provided by Canadian National Railroad will be required at \$500/day. We have included 1 day of supplemental topographic survey for the railroad crossing area if required.

TASK 13.0 – ICC & CANADIAN NATIONAL RAILROAD (CNR) COORDINATION: We will assist LCDOT with the coordination and permitting of Railroad crossing improvements with the ICC and the CNR. The design of the crossing gates, signals, flashers and controllers will be prepared by the Railroad. The improvement plans will meet and coordinate with their improvement limits. We will be responsible for the paving, curb and gutter and drainage of the roadway in the area of the railroad tracks.

We will provide the necessary exhibits and plans required by the ICC and CNR for the coordination of the approval of the crossing widening.

We anticipate 3 meetings with the ICC and CNR.

TASK 14.0 - PLAT OF EASEMENT FOR CANADIAN NATIONAL RAILROAD: We will prepare a Plat of Easement as required for coordination and permitting with the CNR.

TASK 15.0 – PRELIMINARY PLANS, SPECIFICATIONS AND COST ESTIMATE (75%):
We will prepare preliminary plans, specifications and an estimate of construction cost. Contract documents will be in accordance with Lake County standards and will be in English units. We anticipate 1 meeting during design with LCDOT.

The following additional drawings are anticipated to be added to the original permit design plans for the Midlothian Road Improvements from STA 32+00 – 47+50

- | | |
|----------|---|
| 1 sheet | Summary of Quantities |
| 1 sheets | Typical Sections <ul style="list-style-type: none">▪ Complete and Comprehensive▪ Including existing and proposed utilities▪ Covers Main Line and Cross Roads▪ Extend from ROW to ROW Line |
| 5 sheets | Schedules of Quantities (Submitted during Pre-Final) <ul style="list-style-type: none">▪ Schedules for all Pay Items will be Included (will exclude lump sum items) |
| 3 sheets | Roadway Plan, Plan, and Profile Sheets (1"=20' horizontal, 1"=5' vertical) <ul style="list-style-type: none">▪ Existing plan view top, proposed overlaid on existing, on top, profile view bottom.▪ Horizontal and Vertical Alignments |

- Existing Edges of Pavement, Medians, C&G, Shoulders, Driveways, Signing, Guardrails, Structures, Etc.
- All Existing Storm Sewers, Cross Road Culverts, Manholes, Catchbasins, Inlets, Headwalls, Ditches, Pump Stations, Etc.
- All Known Utilities Plotted as Accurately as Possible Including Horizontal and Vertical Locations
- Identification, Sizes and Appurtenances on Existing Topography, Proposed Geometry, Existing Drainage, Proposed Drainage
- Proposed Edges of Pavement, C&G, Medians, Driveways, Sidewalks, Retaining Walls, Structure Locations, and Identifications, etc.
- Proposed Main Drain (Horizontal, Vertical and Size), Manholes, Catch Basins, Inlets, etc. (Station/Offsets), Cross Culverts (Station/Offsets, Inverts and Waterway Information Tables), Sub-Drainage, etc.).

- 4 sheets Erosion and Sediment Control Plans (1"=50' plan sheets)
- Will Show Erosion and Sediment Control for the project
- 1 sheet Intersection Details (1"=10' plan sheets)
- Provide Detailed Horizontal and Vertical Control for the Intersection of Harris/ Midlothian Road and Mallory Drive
- 2 sheets Pavement Marking and Signing Plans (1"=50' plan sheets)
- 10 sheet Construction Details (As Required)
- 7 sheets Cross-Sections (minimum 50' spacing)
- Sufficient in Number to Approximate Cuts and Fills
 - Sufficient in Number to Verify ROW Needs
 - Sufficient in Number to Delineate Drainage Patterns.
 - Through Driveway to Verify Easement Need and Constructability (Satisfactory Grades)
 - All Known Utilities Plotted and Proposed Ditching Sufficiently Complete to Allow Identification of Utility Conflicts

34 Total Additional Sheets

An estimate of construction cost will be submitted for review along with the preliminary plans and specifications. We have assumed no structural plans will be required for this project (bridges, culverts (except as noted below), retaining walls, etc.). If retaining walls over 3' are required, a separate scope of services will be prepared for structural design.

TASK 16.0 – PRE-FINAL PLANS, SPECIFICATIONS, AND COST ESTIMATE (90%): Based on comments provided by LCDOT and the permitting agencies, and coordination with utility companies, SPACECO will submit pre-final construction documents for review. We will write a separate disposition of comments to address each reviewing agency's preliminary comments. We anticipate 1 meeting during design with LCDOT.

TASK 17.0 – FINAL PLANS SPECIFICATIONS AND COST ESTIMATE (100%): We will finalize the contract documents based on the pre-final review. The requested number of copies of plans and specifications will be submitted to LCDOT. A final estimate of construction cost and estimate of required working days will also be submitted. We anticipate 1 meeting during design with LCDOT.

TASK 18.0- PREPARATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP): We will prepare a SWPPP for the project in accordance with Part IV of the General NPDES Permit No. ILR10. Please note that completion of this task will require input from the project engineer and signed certification statements from all contractors, subcontractors, and the operator as identified in the SWPPP. An up-to-date copy of the SWPPP must be maintained on the project site during construction activities.

TASK 19.0 LAKE COUNTY WATERSHED DEVELOPMENT ORDINANCE WETLAND PERMITTING AND USACE LETTER OF NO OBJECTION: The required exhibits, specifications, data and project information will be compiled and assembled in a permit application package to the LCSMC. We will coordinate development of documents with you and other project team members. This task includes requesting sign-off from the Illinois Department of Natural Resources (IDNR) and U.S. Fish and Wildlife Service (USFWS) regarding potential listed endangered and threatened species, as required by the Lake County Watershed Development Ordinance.

We understand that the LCSMC Jurisdictional Determination identified only an isolated wetland at the site, therefore, a permit from the USACE should not be required. As required under the Ordinance, CBBEL will prepare a formal request for a Letter of No Objection to the USACE, including the site engineering plans prepared by SPACECO, Inc. documenting that no impacts to federally regulated wetlands will occur at the site.

TASK 20.0 - WATERSHED DEVELOPMENT PERMIT: The Watershed Development Permit (WDP) application will be prepared. Previous detention storage requirement calculations prepared by Civiltech will be reviewed. It is our understanding that the required detention storage for the entire Midlothian Road extension project (Peterson Road to Rte 137) has been provided in the Lake County Fairgrounds stormwater basins. Based on the final

engineering plans, the required detention storage volume will be determined. A report will be prepared documenting the project's compliance with the Watershed Development Ordinance. We anticipate 1 meeting with the SMC.

TASK 21.0 - LAKE COUNTY FAIRGROUNDS HYDROLOGIC MODELING (IF REQUIRED):

The required detention storage for the Midlothian Road extension project is being provided in the Lake County Fairgrounds (LCF) stormwater basins. If the discharge from portions of the Midlothian Road extension project cannot be directed into the LCF stormwater basins, the outlet structure controlling the basins might need to be modified to achieve the required release rate and High Water Level (HWL) elevation. The LCF hydrologic model will be revised to reflect the Midlothian Road extension project. The results of the modeling will be used to determine the needed outlet structure modifications. The required outlet structure modifications will then be incorporated into the hydrologic model, the various hydrologic models will then be included in the Watershed Development Permit application package (Task 20.0). We anticipate 1 meeting with the SMC.

SUPPLEMENTAL SERVICES

Normal and customary engineering and surveying services do not include service in respect to the following categories of work which are usually referred to as Supplemental Services. If Client shall so advise SPACECO, Inc. and we shall perform or obtain from others such services, SPACECO, Inc. will be paid on an hourly basis or based on subsequent proposal/contract agreements, at the option of Client. Additional Supplemental Services for the project includes, but is not limited to the following:

- Services due to major changes in the general scope of the project.
- Revising studies, reports, and design documents which the Client, the municipality, and/or other governmental agencies have previously approved.
- Providing Engineering Design and Construction Services for:
 - Unusual or unanticipated improvements.
 - Additional off-site improvements requested by the Client or governmental agencies.
 - Improvements necessary to the project development beyond those being included under Basic Services herein.
 - Lift stations.
 - Structural Engineering (except as noted above)
 - Retaining walls over three feet in height.
 - Bridges.
 - Railroad grade crossings, signals, or gates will be by CNR.
 - Railroad safety evaluations.
 - Site lighting.
 - Landscaping, berms or tree replacement.

- NPDES/Erosion Control Report.
- Traffic impact studies, capacity analyses, warrant studies, intersection design studies, construction documents for any traffic control devices (signals, etc.).
- Detention and hydraulic channel analysis.
- Determining the 100-year Base Flood Elevation (BFE) and developing the required documentation in support of the floodplain fill activities.
- Preparing wetland assessments and mitigation plans.
- Preliminary engineering.
- Meetings with the Client, Contractor(s), the municipal staff, or others during the course of design or construction not included under Basic Services.
- Providing construction observation in support of the engineering plans. Visiting the site for preparing punchlists, reductions of Letter of Credit or for comparing the Contractor's invoices against the approved final design plans and the Engineer's quantity take-offs.
- Giving testimony as an expert witness for the Client in litigation or other court proceedings involving this project.
- Environmental assessments, geotechnical investigations.
- Preparation of any plats (ALTA Surveys, etc.) or documents not explicitly identified under Basic Services.
- Field construction staking.
- Record drawings.

Our services will be invoiced monthly on a percent complete basis. Payments are due within thirty days after invoicing.

Work identified, as payable on an hourly basis will be billed to you at the rates specified on the enclosed Schedule of Charges for Professional Services. We will establish our contract in accordance with the enclosed General Terms and Conditions, which are expressly incorporated into and are an integral part of this contract for professional services. If you wish to discuss the terms, conditions and provisions of this agreement, I would be pleased to do so at your earliest convenience. All reproductions and delivery services will be billed to the Client on a cost basis.

If this proposal meets with your approval, please sign both copies and return one to us for our files.

Sincerely,

SPACECO, Inc.



Brett Duffy, P.E.
Vice President

c: R. Stawik, B. Loftus - SPACECO, Inc.
File Copy

ACCEPTED FOR: _____

BY: _____

TITLE: _____

DATE: _____

N:\PROJECTS\5340\5340.03\DOCS\PRP.5340.03.LR.033009.DOC

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME
PRIME/SUPPLEMENT

SPACECO, Inc.

DATE 04/01/09
PTB NO. _____

CONTRACT TERM
START DATE
RAISE DATE

8 MONTHS
04/15/09
01/01/09

OVERHEAD RATE
COMPLEXITY FACTOR
% OF RAISE

108.53 %
0
0.00%

ESCALATION PER YEAR

4/15/2009 - 01/01/10
9 30

= 30.00%
= 1.0000

1/2/2010 - 1/1/2011
12 30

40.00%

1/2/2011 - 10/1/2011
9 30

30.00%

The total escalation for this project would be: 0.00%

PAYROLL RATES

FIRM NAME SPACECO, Inc.
 PRIME/SUPPLEMENT _____
 PTB NO. _____

DATE 03/31/09

ESCALATION FACTOR 0.00%

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
Principal	\$70.00	\$70.00
Engineer VI	\$58.26	\$58.26
Engineer V	\$52.56	\$52.56
Engineer IV	\$43.87	\$43.87
Engineer III	\$31.55	\$31.55
Engineer II	\$29.63	\$29.63
Engineer I	\$24.49	\$24.49
Env. Res. Spec. IV	\$46.62	\$46.62
Env. Res. Spec. III	\$0.00	\$0.00
Env. Res. Spec. II	\$0.00	\$0.00
Env. Res. Technician	\$32.71	\$32.71
Survey V	\$66.35	\$66.35
Survey IV	\$40.63	\$40.63
Survey III	\$31.89	\$31.89
Survey II	\$26.16	\$26.16
Survey I	\$0.00	\$0.00
Cad Manager	\$38.58	\$38.58
Crew Chief	\$29.54	\$29.54
Rodman	\$16.75	\$16.75
Cad I	\$23.96	\$23.96
Engineering Tech IV	\$0.00	\$0.00
Engineering Tech III	\$0.00	\$0.00
Engineering Tech I/II	\$0.00	\$0.00
GIS Specialist III	\$0.00	\$0.00
GIS Specialist I/II	\$0.00	\$0.00
Administrative	\$0.00	\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00

Client Lake County Division of Transportation

Cost Estimate of
Consultant Services
(CPPFF)

Firm SPACECO, Inc.
Route Midlothian Road/Harris Road
Section _____
County Lake
Job No. _____
PTB & Item _____

Date 03/31/09

Overhead Rate 108.53%

Complexity Factor 0

Item	Manhours	Payroll	Overhead & Fringe Benefits	In-House Direct Costs	Fixed Fee	Outside Direct Costs	Services By Others	Total	% of Grand Total
Task 1 - Original Midlothian Road Permit Plans						\$47,569.29		\$47,569.29	30.27%
Task 2 - Permit Set Revisions	112	\$3,424.52	\$3,716.63		\$1,191.73			\$8,332.88	5.30%
Task 3 - Revised Culvert Sizing	4	\$168.22	\$182.57		\$58.54	\$14.86	\$1,400.48	\$1,824.67	1.16%
Task 4 - Redesign of Culvert Concrete	4	\$168.22	\$182.57		\$58.54		\$7,687.69	\$8,097.02	5.15%
Task 5 - Shop Drawing Review	1	\$52.56	\$57.04		\$18.29		\$1,447.68	\$1,575.57	1.00%
Task 6 - JAWA Watermain Coordination	16	\$581.16	\$630.73		\$202.24			\$1,414.14	0.90%
Task 7 - Assist LCDOT with ComEd Agreement for Roadway Crossing	20	\$696.34	\$755.74		\$242.33	\$6.48		\$1,700.88	1.08%
Task 8 - Plat of Easement for off-site Grading	10	\$356.10	\$386.48		\$123.92	21.42		\$887.92	0.57%
Task 9 - Off-Site Grading Plan	20	\$602.70	\$654.11		\$209.74			\$1,466.55	0.93%
Task 10 - Coordination Meetings	32	\$1,345.76	\$1,460.55		\$468.32	\$9.72		\$3,284.36	2.09%
Task 11 - Utility Coordination	90	\$2,802.24	\$3,041.27		\$975.18	\$729.00		\$7,547.69	4.80%
Task 12 - Additional Topographic Survey	52	\$1,373.16	\$1,490.29		\$477.86	\$500.00		\$3,841.31	2.44%
Task 13 - ICC & CNR Coordination	60	\$2,242.56	\$2,433.85		\$780.41	\$364.50		\$5,821.32	3.70%
Task 14 - Plat of Easement for Wisconsin Central Railroad	12	\$388.16	\$421.27		\$135.08	\$21.42		\$965.93	0.61%
Task 15 - Preliminary Plans	366	\$11,281.60	\$12,243.92		\$3,926.00	\$632.50		\$28,094.02	17.87%
Task 16 - Pre-Final Plans	136	\$4,243.56	\$4,605.54		\$1,476.76	\$632.50		\$10,958.35	6.97%
Task 17 - Final Plans	82	\$2,551.72	\$2,769.38		\$888.00	\$1,510.00		\$7,719.10	4.91%
Task 18 - Preparation of SWPPP	23	\$678.08	\$735.92		\$235.97	\$181.00		\$1,830.97	1.17%
Task 19 - Wetland Work	4	\$168.22	\$182.57		\$58.54		\$2,487.58	\$2,896.91	1.84%
Task 20 - Watershed Development Permit	4	\$168.22	\$182.57		\$58.54	\$200.00	\$5,565.84	\$6,165.17	3.92%
Task 21 - Lake County Fairgrounds Hydraulic Modeling	4	\$168.22	\$182.57		\$58.54	\$200.00	\$4,549.92	\$5,159.25	3.28%
TOTALS	1052	\$33,461.32	\$36,315.57	\$0.00	\$11,644.54	\$52,592.69	\$23,129.19	\$157,143.31	100.00%

Client Lake County Division of Transportation

Average Hourly Project Rates

Route Midlothian Road/ Harris Road

Section Lake

County Lake

Job No. _____

PTB/Item _____

Consultant SPACECO, Inc.

Date 03/31/09

Sheet 1 OF 4

Payroll Classification	Avg Hourly Rates	Total Project Rates		Task 1 - Original Midlothian Road Permit Plans			Task 2 - Permit Set Revisions			Task 3 - Revised Culvert Sizing			Task 4 - Redesign of Culvert Concrete			Task 5 - Shop Drawing Review			
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	70.00	1	0.10%	0.07	1	100.00%													
Engineer VI	58.26	0																	
Engineer V	52.56	135	13.26%	6.97			12	10.71%	5.63	2	50.00%	26.28	2	50.00%	26.28	1	100.00%		52.56
Engineer IV	43.87	0																	
Engineer III	31.55	301	29.57%	9.33			30	26.79%	8.45	2	50.00%	15.78	2	50.00%	15.78				
Engineer II	29.63	163	16.01%	4.74			30	26.79%	7.94										
Engineer I	24.49	0																	
Env. Res. Spec. IV	46.62	0																	
Env. Res. Spec. III		0																	
Env. Res. Spec. II		0																	
Env. Res. Technician	32.71	0																	
Survey V	66.35	6	0.59%	0.39															
Survey IV	40.63	2	0.20%	0.08															
Survey III	31.89	6	0.59%	0.19															
Survey II	26.16	16	1.57%	0.41															
Survey I		0																	
Cad Manager	38.58	34	3.34%	1.29															
Crew Chief	29.54	16	1.57%	0.46															
Rodman	16.75	16	1.57%	0.26															
Cad I	23.96	322	31.63%	7.58			40	35.71%	8.56										
Engineering Tech IV		0																	
Engineering Tech III		0																	
Engineering Tech I/II		0																	
GIS Specialist III		0																	
GIS Specialist I/II		0																	
Administrative		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		1018	100%	\$31.78	1	100%	\$70.00	112	100%	\$30.58	4	100%	\$42.06	4	100%	\$42.06	1	100%	\$52.56

Client Lake County Division of Transportation

Route Midlothian Road/ Harris Road
 Section _____
 County Lake
 Job No. _____
 PTB/Item _____

Average Hourly Project Rates

Consultant SPACECO, Inc. Date 03/31/09

Sheet 2 OF 4

Payroll Classification	Avg Hourly Rates	Task 6 - JAWA Watermain Coordination			Task 7 - Assist LCDOT with ComEd Agreement for Roadway Crossing			Task 8 - Plat of Easement for off-site Grading			Task 9 - Off-Site Grading Plan			Task 10 - Coordination Meetings			Task 11 - Utility Coordination		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	70.00																		
Engineer VI	58.26																		
Engineer V	52.56	4	25.00%	13.14	6	30.00%	15.77												
Engineer IV	43.87																		
Engineer III	31.55	8	50.00%	15.78	6	30.00%	9.47												
Engineer II	29.63	4	25.00%	7.41															
Engineer I	24.49																		
Env. Res. Spec. IV	46.62																		
Env. Res. Spec. III																			
Env. Res. Spec. II																			
Env. Res. Technician	32.71																		
Survey V	66.36																		
Survey IV	40.63							2	20.00%	13.27									
Survey III	31.89							4	40.00%	12.76									
Survey II	26.16																		
Survey I																			
Cad Manager	38.58																		
Crew Chief	29.54																		
Rodman	16.75																		
Cad I	23.96							8	40.00%	9.58	4	40.00%	9.58	8	40.00%	9.58			
Engineering Tech IV																			
Engineering Tech III																			
Engineering Tech I/II																			
GIS Specialist III																			
GIS Specialist I/II																			
Administrative																			
TOTALS		16	100%	\$36.32	20	100%	\$34.82	10	100%	\$35.61	20	100%	\$30.14	32	100%	\$42.06	90	100%	\$31.14

Client Lake County Division of Transportation

Route Midlothian Road/ Harris Road
 Section _____
 County Lake
 Job No. _____
 PTB/Item _____

Average Hourly Project Rates

Consultant SPACECO, Inc. Date 03/31/09

Sheet 3 OF 4

Payroll Classification	Avg Hourly Rates	Task 12 - Additional Topographic Survey			Task 13 - ICC & CNR Coordination			Task 14 - Plat of Easement for Wisconsin Central Railroad			Task 15 - Preliminary Plans			Task 16 - Pre-Final Plans			Task 17 - Final Plans		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	70.00																		
Engineer VI	58.26																		
Engineer V	52.56																		
Engineer IV	43.87																		
Engineer III	31.55																		
Engineer II	29.63																		
Engineer I	24.49																		
Env. Res. Spec. IV	46.62																		
Env. Res. Spec. III																			
Env. Res. Spec. II																			
Env. Res. Technician	32.71																		
Survey V	66.35	2	3.85%	2.55															
Survey IV	40.63	2	3.85%	1.56	2	16.67%	11.06												
Survey III	31.89				2	16.67%	5.32												
Survey II	26.16	16	30.77%	8.05															
Survey I																			
Cad Manager	38.58				4	6.67%	2.57												
Crew Chief	29.54	16	30.77%	9.09															
Rodman	16.75	16	30.77%	5.15															
Cad I	23.96				12	20.00%	4.79	8	66.67%	15.97	120	32.79%	7.86	50	36.76%	8.81	32	39.02%	9.35
Engineering Tech IV																			
Engineering Tech III																			
Engineering Tech I/II																			
GIS Specialist III																			
GIS Specialist I/II																			
Administrative																			
TOTALS		52	100%	\$26.41	60	100%	\$37.38	12	100%	\$32.35	366	100%	\$30.82	136	100%	\$31.20	82	100%	\$31.12

Client Lake County Division of Transportation

Average Hourly Project Rates

Route Midlothian Road/ Harris Road

Section Lake

Consultant SPACECO, Inc.

Date 03/31/09

Sheet 4 OF 4

Job No. _____

P/E/Item _____

Payroll Classification	Avg Hourly Rates	Task 18 - Preparation of SWPPP			Task 19 - Wetland Work			Task 20 - Watershed Development Permit			Task 21 - Lake County Fairgrounds Hydraulic Modeling			Wgt'd Avg		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Principal	70.00															
Engineer VI	58.26															
Engineer V	52.56	1	4.35%	2.29	2	50.00%	26.28	2	50.00%	26.28	2	50.00%	26.28			
Engineer IV	43.87															
Engineer III	31.55	4	17.39%	5.49	2	50.00%	15.78	2	50.00%	15.78	2	50.00%	15.78			
Engineer II	29.63	12	52.17%	15.46												
Engineer I	24.49															
Env. Res. Spec. IV	46.62															
Env. Res. Spec. III																
Env. Res. Spec. II																
Env. Res. Technician	32.71															
Survey V	66.35															
Survey IV	40.63															
Survey III	31.89															
Survey II	26.16															
Survey I																
Cad Manager	38.58															
Crew Chief	29.54															
Rodman	16.75															
Cad I	23.96	6	26.09%	6.25												
Engineering Tech IV																
Engineering Tech III																
Engineering Tech I/II																
GIS Specialist III																
GIS Specialist I/II																
Administrative																
TOTALS		23	100%	\$29.48	4	100%	\$42.06	4	100%	\$42.06	4	100%	\$42.06	0	0%	\$0.00

DIRECT COSTS

Task 3.0 – Revised Culvert Sizing

Black and White Reproduction (Est.)

6 sets x 1 sheet x 6 s.f. x \$0.135/s.f. = \$4.86

Text Reproduction

10 x10 sheets x \$0.10/sheet = \$10.00

Task 7.0 – ComEd Coordination

Black and White Reproduction (Est.)

8 sets x1 sheet x 6 s.f. x \$0.135/s.f. = \$6.48

Task 8.0 – Plat of Easement for Off-Site Grading

Black and White Reproduction (Est.)

12 sets x 1 sheet x 6 s.f. x \$0.135/s.f. = \$9.72

Mylar Plan Set

1 set x 1 sheets x 6 s.f./sheet x \$1.95/s.f. = \$11.70

Task 9.0 – Off-Site Grading Plan

Black and White Reproduction (Est.)

12 sets x 1 sheet x 6 s.f. x \$0.135/s.f. = \$9.72

Task 11.0 – Utility Coordination

Black and White Reproduction (Est.)

12 sets x 75 sheet x 6 s.f. x \$0.135/s.f. = \$729.00

Task 12.0 – Supplemental Topographic Survey

Railroad Flagger

1 day @ \$500/Day = \$500.00

Task 13.0 – ICC & Canadian National Railroad (CNR)

Coordination

6 sets x 75 sheets x 6 s.f. x \$0.135/s.f. = \$364.50

Task 14.0 – Plat of Easement for Wisconsin Central Railroad

Black and White Reproduction (Est.)

12 sets x 1 sheet x 6 s.f. x \$0.135/s.f. = \$9.72

Mylar Plan Set

1 set x 1 sheets x 6 s.f./sheet x \$1.95/s.f. = \$11.70

Task 15.0 – Preliminary Plans, Specifications and Cost Estimate

Black and White Reproduction (Est.)
10 sets x 75 sheet x 6 s.f. x \$0.135/s.f = \$607.50
Text Reproduction
10 sets x 25 sheets x \$0.10/sheet = \$25.00

Task 16.0 – Pre-Final Plans, Specifications,

And Cost Estimate

Black and White Reproduction (Est.)
10 sets x 75 sheet x 6 s.f. x \$0.135/s.f = \$607.50
Text Reproduction
10 sets x 25 sheets x \$0.10/sheet = \$25.00

Task 17.0 – Final Plans Specifications, and Cost Estimate

Black and White Reproduction (Est.)
10 sets x 75 sheet x 6 s.f. x \$0.135/s.f = \$607.50
Text Reproduction
10 sets x 25 sheets x \$0.10/sheet = \$25.00
Mylar Plan Set
1 set x 75 sheets x 6 s.f./sheet x \$1.95/s.f. = \$877.50

Task 18.0 – Preparation of Storm Water Prevention Plan (SWPP)

Black and White Reproduction (Est.)
10 sets x 10 sheet x 6 s.f. x \$0.135/s.f = \$81.00
Text Reproduction
10 sets x 100 sheets x \$0.10/sheet = \$100.00

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME
PRIME/SUPPLEMENT

Christopher B. Burke Engineering, Ltd.

DATE 03/31/09
PTB NO. _____

CONTRACT TERM
START DATE
RAISE DATE

12 MONTHS
04/15/09
01/01/09

OVERHEAD RATE 136.60%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

ESCALATION PER YEAR

4/15/2009 - 01/01/10
9
12

= 75.00%

= 1.0075

1/2/2010 - 4/1/2010
3
12

25.75%

The total escalation for this project would be:

0.75%

PAYROLL RATES

FIRM NAME Christopher B. Burke Engineering, Ltd DATE 03/31/09
 PRIME/SUPPLEMENT _____
 PTB NO. _____

ESCALATION FACTOR 0.75%

CLASSIFICATION	CURRENT RATE	ESCALATED RATE
Principal	\$70.00	\$70.00
Engineer VI	\$69.44	\$69.96
Engineer V	\$58.44	\$58.88
Engineer IV	\$48.82	\$49.19
Engineer III	\$37.33	\$37.61
Engineer I/II	\$29.63	\$29.85
Env. Res. Spec. V	\$58.50	\$58.94
Env. Res. Spec. IV	\$45.25	\$45.59
Env. Res. Spec. III	\$38.77	\$39.06
Env. Res. Spec. II	\$30.67	\$30.90
Env. Res. Technician	\$31.75	\$31.99
Survey V	\$68.50	\$69.01
Survey IV	\$49.25	\$49.62
Survey III	\$47.00	\$47.35
Survey II	\$32.14	\$32.38
Survey I	\$26.90	\$27.10
Cad Manager	\$48.00	\$48.36
Asst. Cad Manager	\$43.25	\$43.57
Cad II	\$40.48	\$40.78
Cad I	\$25.85	\$26.04
Engineering Tech IV	\$46.17	\$46.52
Engineering Tech III	\$41.31	\$41.62
Engineering Tech I/II	\$22.83	\$23.00
GIS Specialist III	\$37.00	\$37.28
GIS Specialist I/II	\$18.50	\$18.64
Administrative	\$27.48	\$27.69

\$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00
 \$0.00

**Cost Estimate of
Consultant Services
(CPFF)**

Client Lake County Division of Transportation
 Firm Christopher B. Burke Engineering, Ltd.
 Route Midlothian Road
 Section _____
 County Lake
 Job No. _____
 PTB & Item _____

Date 03/31/09
 Overhead Rate 136.60%
 Complexity Factor 0

Item	Manhours	Payroll	Overhead & Fringe Benefits	In-House Direct Costs	Fixed Fee	Outside Direct Costs	Services By Others	Total	% of Grand Total
Task 3 - Revised Culvert Sizing	12	\$516.02	\$704.89		\$179.58			\$1,400.48	6.06%
Task 4 - Re-design of Cast in Place Culverts	60	\$2,832.61	\$3,869.34		\$985.75			\$7,687.69	33.24%
Task 5 - Shop Drawing Review	10	\$533.41	\$728.64		\$185.63			\$1,447.68	6.26%
Task 19 - Wetland Permitting	21	\$916.57	\$1,252.04		\$318.97			\$2,487.58	10.76%
Task 20 - Watershed Development Permit	52	\$1,973.41	\$2,695.68		\$686.75	\$200.00		\$5,555.84	24.02%
Task 21 - Hydrologic Modeling	42	\$1,602.77	\$2,189.39		\$557.76	\$200.00		\$4,549.92	19.67%
TOTALS	197	\$8,374.79	\$11,439.97	\$0.00	\$2,914.43	\$400.00	\$0.00	\$23,129.19	100.00%

Client Lake County Division of Transportation

Average Hourly Project Rates

Route Midlothian Road
 Section _____
 County Lake
 Job No. _____
 PTB/Item _____

Consultant Christopher B. Burke Engineering, Ltd.

Date 03/31/09

Sheet 1 OF 2

Payroll Classification	Avg Hourly Rates	Total Project Rates		Task 3 - Revised Culvert Sizing			Task 4 - Re-design of Cast In Place Culverts			Task 5 - Shop Drawing Review			Task 19 - Wetland Permittling			Task 20 - Watershed Development Permit		
		Hours	% Part.	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	70.00	0																
Engineer VI	69.96	8	4.06%	2	16.67%	11.66	4	6.67%	2	20.00%	13.99							
Engineer V	58.88	0																
Engineer IV	49.19	46	23.35%	10	83.33%	31.34	32	53.33%	8	80.00%	39.35				4	7.69%	3.78	
Engineer III	37.61	74	37.56%												24	46.15%	17.36	
Engineer I/II	29.85	0																
Env. Res. Spec. V	58.94	0																
Env. Res. Spec. IV	45.59	18	9.14%												18	85.71%	39.08	
Env. Res. Spec. III	39.06	0																
Env. Res. Spec. II	30.90	0																
Env. Res. Technician	31.99	3	1.52%												3	14.29%	4.57	
Survey V	69.01	0																
Survey IV	49.82	0																
Survey III	47.35	0																
Survey II	32.98	0																
Survey I	27.10	0																
Cad Manager	48.36	0																
Asst. Cad Manager	43.57	0																
Cad II	40.78	40	20.30%				24	40.00%							16	30.77%	12.55	
Cad I	26.04	0																
Engineering Tech IV	46.52	0																
Engineering Tech III	41.62	0																
Engineering Tech I/II	23.00	0																
GIS Specialist III	37.28	0																
GIS Specialist I/II	18.64	0																
Administrative	27.69	8	4.06%												8	15.38%	4.26	
		0																
		0																
		0																
		0																
TOTALS		197	100%	\$42.51	100%	\$43.00	60	100%	\$47.21	100%	\$53.34	21	100%	\$43.65	52	100%	\$37.95	

Client Lake County Division of Transportation

Average Hourly Project Rates

Route Midlothian Road
 Section _____
 County Lake
 Job No. _____
 Consultant Christopher B. Burke Engineering, Ltd.
 Date 03/31/09
 Sheet 2 OF 2

Payroll Classification	Avg Hourly Rates	Task 21 - Hydrologic Modelling																		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	
Principal	70.00																			
Engineer VI	69.96																			
Engineer V	58.88																			
Engineer IV	49.19	2	4.76%	2.34																
Engineer III	37.61	40	95.24%	35.82																
Engineer I/II	29.85																			
Env. Res. Spec. V	58.94																			
Env. Res. Spec. IV	45.59																			
Env. Res. Spec. III	39.06																			
Env. Res. Spec. II	30.90																			
Env. Res. Technician	31.99																			
Survey V	69.01																			
Survey IV	49.62																			
Survey III	47.35																			
Survey II	32.38																			
Survey I	27.10																			
Cad Manager	48.36																			
Asst. Cad Manager	43.57																			
Cad II	40.78																			
Cad I	26.04																			
Engineering Tech IV	46.52																			
Engineering Tech III	41.62																			
Engineering Tech I/II	23.00																			
GIS Specialist III	37.28																			
GIS Specialist I/II	18.64																			
Administrative	27.69																			
TOTALS		42	100%	\$38.16	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0

MIDLOTHIAN ROAD EXTENSION
LAKE COUNTY, ILLINOIS

