


Local Agency Lake County	LOCAL AGENCY	 <b>Illinois Department of Transportation</b>  <b>Preliminary Engineering Services Agreement For Federal Participation</b>	Consultant Christopher B. Burke Engineering, Ltd.
County Lake			Address 9575 W. Higgins Road, Suite 600
Section 06-00924-00-TL			City Rosemont
Project No. CMM-9003(216)			State IL
Job No. D-91-275-09			Zip Code 60018
Contact Name/Phone/E-mail Address Bruce Christensen/847-377-7400 bchristensen@lakecountyl.gov	Contact Name/Phone/E-mail Address Mike Ziegler/847-823-0500 mziegler@cbbel.com		

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

#### Project Description

Name	Lake County Passage	Route	N/A	Length	N/A	Structure No.	N/A
Termini	Various Locations						

Description The project will consist of traffic signal modifications at 26 intersections along various routes in Highland Park to allow for communication over an Ethernet network to the Lake County Passage system, install PTZ cameras, UPS units, and signal improvement as required.

#### Agreement Provisions

##### I. THE ENGINEER AGREES, (See Attachment A: Scope of Services)

1. To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LA for the proposed improvement herein described.
2. To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LA or STATE.
3. To complete the services herein described within 180 calendar days from the date of the Notice to Proceed from the LA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
4. The classifications of the employees used in the work should be consistent with the employee classifications and estimated man-hours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
5. That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
6. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of work by the STATE will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
7. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the STATE.
8. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.

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9. The undersigned certifies neither the ENGINEER nor I have:
- employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT,
  - agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
  - paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
  - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
  - have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
  - are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) and
  - have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
11. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project (Exhibit B).
13. Scope of Services to be provided by the ENGINEER:
- Make such detailed surveys as are necessary for the planning and design of the PROJECT.
  - Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
  - Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
  - Design and/or approve cofferdams and superstructure shop drawings.
  - Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
  - Prepare the necessary environmental and planning documents including the Project Development Report, Environmental Class of Action Determination or Environmental Assessment, State Clearinghouse, Substate Clearinghouse and all necessary environmental clearances.
  - Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE.
  - Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design and bridge foundation.
  - Prepare preliminary roadway and drainage structure plans and meet with representatives of the LA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
  - 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.
  - Complete the general and detailed plans, special provisions and estimate of cost. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.
  - Furnish the LA with survey and drafts in quadruplicate all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

## II. THE LA AGREES,

1. To furnish the ENGINEER all presently available survey data and information
2. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee       CPFF = 14.5%[DL + R(DL) + OH(DL) + IHDC], or  
                                  CPFF = 14.5%[DL + R(DL) + 1.4(DL) + IHDC], or  
                                  CPFF = 14.5%[(2.3 + R)DL + IHDC]

Where:      DL = Direct Labor  
                 IHDC = In House Direct Costs  
                 OH = Consultant Firm's Actual Overhead Factor  
                 R = Complexity Factor

Specific Rate               (Pay per element)

Lump Sum                   \_\_\_\_\_

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

With Retainage

- a) For the first 50% of completed work, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) After 50% of the work is completed, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) Final Payment – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

Without Retainage

- a) For progressive payments – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) Final Payment – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. The recipient shall not discriminate on the basis on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C. 3801 et seq.).

## III. IT IS MUTALLY AGREED,

1. That no work shall be commenced by the ENGINEER prior to issuance by the LA of a written Notice to Proceed.
2. That tracings, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LA or to the STATE, without restriction or limitation as to their use.

3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LA and the STATE before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.
4. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General and the STATE; and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
6. The payment by the LA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LA, the STATE, and their officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. 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 drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LA. The LA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.
9. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- a. Publishing a statement:
  - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
  - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
  - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
    - (a) abide by the terms of the statement; and
    - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- b. Establishing a drug free awareness program to inform employees about:
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's or contractor's policy of maintaining a drug free workplace;
  - (3) Any available drug counseling, rehabilitation and employee assistance program; and
  - (4) The penalties that may be imposed upon an employee for drug violations.
- c. Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- d. Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
- e. Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by,
- f. Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
- g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

10. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LA deems appropriate.

**Agreement Summary**

Prime Consultant:	TIN Number	Agreement Amount
Christopher B. Burke Engineering, Ltd.	36-3468939	\$160,487.95
Sub-Consultants:	TIN Number	Agreement Amount
Sub-Consultant Total:		
Prime Consultant Total:		\$160,487.95
Total for all Work:		\$160,487.95

Executed by the LA:

\_\_\_\_\_  
(Municipality/Township/County)

ATTEST:

By: \_\_\_\_\_  
Clerk

By: \_\_\_\_\_  
Title: \_\_\_\_\_

(SEAL)

Executed by the ENGINEER:

ATTEST:

By: G. Mall J  
Title: Vice President

By: [Signature]  
Title: President

**RECOMMENDED FOR EXECUTION:**

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



**Engineering Payment Report**

**Prime Consultant**

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone \_\_\_\_\_  
 TIN Number \_\_\_\_\_

**Project Information**

Local Agency \_\_\_\_\_  
 Section Number \_\_\_\_\_  
 Project Number \_\_\_\_\_  
 Job Number \_\_\_\_\_

This form is to verify the amount paid to the Sub-consultant on the above captioned contract. Under penalty of law for perjury or falsification, the undersigned certifies that work was executed by the Sub-consultant for the amount listed below.

Sub-Consultant Name	TIN Number	Actual Payment from Prime
	Sub-Consultant Total:	
	Prime Consultant Total:	
	Total for all Work Completed:	

\_\_\_\_\_ Signature and title of Prime Consultant \_\_\_\_\_ Date

Note: The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under state and federal law. Disclosure of this information is REQUIRED and shall be deemed as concurring with the payment amount specified above.

**Attachment A  
Basic Scope of Services  
Traffic Signal Modernization and Interconnect  
Highland Park to Lake County TMC  
Highland Park, IL**

**UNDERSTANDING OF THE ASSIGNMENT**

Lake County and Highland Park have entered into an agreement to modernize and interconnect twenty-six existing traffic signals located in the City to the Traffic Management Center (TMC). All traffic signal and video communications will take place over an Ethernet network utilizing fiber optic cable. The routing and design of fiber optic cable for the communication system including the splicing and terminations to the existing PASSAGE projects will be included as required. This may include segments along Lake-Cook Road outside of the City of Highland Park as necessary to complete the communication network to the TMC.

One traffic signal will be completely rebuilt as part of this project while the remaining intersections will only include the upgrades required to communicate with the TMC. The installation of PTZ cameras, UPS units and a connection to the City of Highland Park police department building to improve incident response and traffic monitoring capabilities will be included. The proposed connection point to the police building has already been determined and installed by the City.

Lake County has received approval for CMAQ funding for design of this project and is pursuing additional CMAQ funding for the construction. The Illinois Department of Transportation will administer the project due to the CMAQ funding. CBBEL will be responsible for coordinating work activities with the County, City and IDOT including plan submittals and reviews.

The plans will consist of traffic signal improvement and signal system interconnect plans in accordance with County and IDOT design criteria. Existing traffic signal plans, interconnect plans and roadway plans will be used in preparing the base sheets for the interconnect portion of the project. Topographic survey will be performed as required to supplement the existing plan information and at the location of the proposed traffic signal replacement as required.

**SECTION I - SCOPE OF BASIC SERVICES**

**Task 1 – Data Collection:**

This task involves field surveys and observations, the collection and review of relevant information, and data collection to obtain an accurate and comprehensive record of the existing traffic signal inventory.

**Task 1.1 - Field Reconnaissance and Observations:** A field reconnaissance of the study area will be conducted to determine the physical and operating characteristics of the traffic signals. A detailed inventory of the existing controller and cabinets will also be performed.

**Task 1.2 - Collection and Review of Existing Data and Information:** The following transportation information will be collected and reviewed to assist in the development of the traffic signal modernization and interconnect plans:

- 1) Existing roadway and traffic signal plans
- 2) Existing traffic signal operation information
- 3) Aerial photography
- 4) County or City GIS data

### **Task 2 – Topographic Survey:**

The consultant will conduct topographic survey as required to supplement the existing plan information as required to develop the interconnect plans.

Topographic survey at the location of the traffic signal replacement will extend 300 feet on all major approaches and 100 feet on all minor approaches. The topographic survey at this location will include horizontal and vertical alignment of the intersection, above and below ground utilities, existing right of way and lane usage.

### **Task 3: Determination of Equipment Requirements:**

Based on the data collected in Task 1, we will determine the required upgrades and equipment to interconnect the 26 signalized intersections and the police department building with the TMC. This will include the proposed use of network communication equipment, fiber splicing, conduit runs, and PTZ camera locations.

All the proposed items will be coordinated and approved by the County, City and the Illinois Department of Transportation (IDOT) prior to the development of the detailed traffic signal modernization and interconnect plans.

### **Task 4 – Traffic Signal Modernization and Interconnect Plans:**

The consultant will prepare traffic signal modernization plans as required to indicate the proposed upgrades, PTZ camera and UPS installations. Traffic signal improvement plans will also be prepared for the one location that is to be completely rebuilt.

**Task 4.1 – Base Sheet Preparation:** The consultant will prepare base sheets at a scale of 1"=20' for the traffic signal modification plans using the information from Task 1 and the topographic survey from Task 2.

**Task 4.2 – Traffic Signal Modernization Plans:** The consultant will develop the traffic signal modernization plans using the base sheet information from Task 4.1. The traffic signal plans shall be developed based on IDOT, LCDOT, and City standards as applicable and current at the time said plans are prepared. The traffic signal modernization plans may include the following:

- 1) Temporary traffic signal and removal plans.
- 2) Preliminary, pre-final and final traffic signal modification plans.
- 3) Cable plan and schedule of quantities.
- 4) Phase Designation Diagrams.
- 5) Emergency Vehicle Preemption Plans
- 6) Loop detector detail and general notes.
- 7) Battery Backup (Uninterruptible Power Supply) Design
- 8) Technical specifications employing County, City and IDOT special provisions to the extent that they apply will be assembled.



Task 4.3 – Interconnect Base Sheet Preparation: The consultant will prepare base sheets at a scale of 1"=50' for the interconnect plans using the data collected in Task 1 and 2.

Task 4.4 – Interconnect Plans: The consultant will prepare the interconnect plans using the base sheet information from Task 4.3. The interconnect plans will include the following:

- 1) Communication Interconnect Plan
- 2) Video Camera Location Plan
- 3) Interconnect Schematic
- 4) Fiber Splicing and Termination Diagrams
- 5) Cabinet Details
- 6) Schedule of Quantities

As part of the traffic signal improvement plans, the consultant will prepare an engineer's opinion of probable construction cost for the traffic signal improvements based on the final plans.

#### **Task 5 - Coordination with County, City and IDOT:**

The consultant will be responsible for meeting with representatives from the County, City and IDOT to review the proposed scope of services and to determine specific design criteria required by the County and IDOT for proposed project. In addition, the consultant will review with the County, City and IDOT design review comments and project letting requirements.

#### **Task 6– Management/Administration:**

This task will include project oversight and supervision during the project. CBBEL will provide monthly updates to the City to advise as to the status of the project and concerns regarding specific design elements. The status updates will also serve to clarify specific design requirements that the County, City or IDOT may want incorporated into the project.

## **SECTION II - SUPPLEMENTAL SERVICES**

Normal and customary engineering 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 Engineer and Engineer shall perform or obtain from others such services, Engineer 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 include, but are not limited to, the following:

- Services due to major changes in general scope of the project.
- Changes to land plan or building changes; structural engineering; wetland assessment, delineation or mitigation; flood plain fill determination or associated hydraulic calculations or permit submittals; landscape design; revisions due to phasing of construction; construction phase services
- Revising studies, reports, and design documents previously approved by the Client and/or State, or other government agencies.
- Providing engineering design and construction services for unusual or unanticipated improvements, and for additional off-site improvements requested by the Client, municipality,

other government agencies, or necessary to the project development beyond that being included under BASIC SERVICES herein.

- Attendance at and preparation of exhibits for Plan Commission and Board meeting and hearings not included under BASIC SERVICES. We can not accurately estimate the time and cost of this due to the nature of these meetings and of municipal reviews.
- Giving testimony as an expert witness for the Client in litigation or other court proceedings involving this project.
- Hydraulic channel analysis, lift station design.
- Preparation of environmental reports/studies or environmental survey request forms.
- Preparation of Phase I engineering reports and/or studies.
- Traffic Impact Analysis



# EXHIBIT A-2 AVERAGE HOURLY PROJECT RATES

FIRM Christopher B. Burke Engineering, Ltd.  
 Local Agency Lake County  
 Section 06-00924-00-TL  
 Project CMM-9003(216)  
 Job No: D-91-275-09

DATE 03/18/09

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES		TOTAL PROJECT RATES																			
	Hours		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	90	70.00	90	6.67%	4.67	10	8.33%	5.83														
Engineer VI	0	69.64	0																			
Engineer V	0	58.44	0																			
Engineer IV	250	48.82	250	18.52%	9.04	50	41.67%	20.34														
Engineer III	160	37.33	160	11.85%	4.42	50	41.67%	15.55														
Engineer I/II	0	29.63	0																			
Env. Res. Spec. V	0	58.50	0																			
Env. Res. Spec. IV	0	45.25	0																			
Env. Res. Spec. III	0	38.77	0																			
Env. Res. Spec. II	0	30.67	0																			
Env. Res. Technician	0	31.75	0																			
Survey V	2	68.50	2	0.15%	0.10																	
Survey IV	4	49.25	4	0.30%	0.15																	
Survey III	24	47.00	24	1.78%	0.84																	
Survey II	35	32.14	35	2.58%	0.83																	
Survey I	35	26.90	35	2.58%	0.70																	
Cad Manager	0	48.00	0																			
Asst. Cad Manager	0	43.25	0																			
Cad II	240	40.48	240	17.78%	7.20																	
Cad I	320	25.85	320	23.70%	6.13																	
Engineering Tech V	0	60.00	0																			
Engineering Tech IV	180	46.17	180	13.33%	6.16																	
Engineering Tech III	0	41.31	0																			
Engineering Tech I/II	0	22.83	0																			
GIS Specialist III	10	37.00	10	0.74%	0.27	10	8.33%	3.08														
GIS Specialist I/II	0	18.50	0																			
Administrative	0	27.48	0																			
<b>TOTALS</b>			1350	100%	\$40.50	120	100.00%	\$44.81	100	100%	\$35.28	110	100%	\$45.52	350	100%	\$38.69	120	100%	\$55.88		

# EXHIBT A-2 AVERAGE HOURLY PROJECT RATES

**FIRM** Christopher B. Burke Engineering, Ltd.  
**Local Agency** Lake County  
**Section** 06-00924-00-TL  
**Project** CMM-9003(216)  
**Job No:** D-91-275-09

DATE 03/18/09

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Management/Admin		Hours	Wgtd Avg	% Part.	Hours	Wgtd Avg	% Part.	Hours	Wgtd Avg	% Part.	Hours	Wgtd Avg	% Part.	
		Hours	% Part.													
Principal	70.00	20	40.00%	28.00												
Engineer VI	69.64															
Engineer V	58.44															
Engineer IV	48.82	30	60.00%	29.29												
Engineer III	37.33															
Engineer I/II	29.63															
Env. Res. Spec. V	58.50															
Env. Res. Spec. IV	45.25															
Env. Res. Spec. III	38.77															
Env. Res. Spec. II	30.67															
Env. Res. Technical	31.75															
Survey V	68.50															
Survey IV	49.25															
Survey III	47.00															
Survey II	32.14															
Survey I	26.90															
Cad Manager	48.00															
Asst. Cad Manager	43.25															
Cad II	40.48															
Cad I	25.85															
Engineering Tech V	60.00															
Engineering Tech IV	46.17															
Engineering Tech III	41.31															
Engineering Tech I/II	22.83															
GIS Specialist III	37.00															
GIS Specialist I/II	18.50															
Administrative	27.48															
<b>TOTALS</b>		50	100%	\$57.29	0	0%	0	\$0.00	0	0%	0	\$0.00	0	0%	0	\$0.00

EXHIBIT A-3

DETAILED SUMMARY OF DIRECT COSTS

CONSULTANT: CHRISTOPHER B. BURKE ENGINEERING LTD.  
 ROUTE: Highland Park  
 PROJECT: CMM-9003(216)  
 SECTION: 06-00924-00-TL  
 COUNTY: Lake  
 JOB NO.: D-91-275-09

INHOUSE DIRECT COSTS

TRAVEL			
20	135	\$0.550	\$1,485.00
# of trips x # of miles/trip x mileage rate			Cost
- OR -			
# of days x mileage rate/day			Cost

OUTSIDE DIECT COSTS

PRINTING (breakdown in following manner: # of sets x # of prints/set x rate)

Blueprints:	10 sets x 45 shts x 1.25/sht	\$562.50
Mylar:	2 sets x 45 shts x 18.00/sht	\$1,620.00
Reports:	12 sets x 80 shts x .12/sht	\$115.20
	Cost	\$2,297.70
	TOTAL	\$3,782.70