

**VILLAGE OF LOMBARD**  
**REQUEST FOR BOARD OF TRUSTEES ACTION**  
For Inclusion on Board Agenda

    X     Resolution or Ordinance (Blue) \_\_\_\_\_ Waiver of First Requested  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Recommendations of Boards, Commissions & Committees (Green)  
Other Business (Pink)

**TO:** PRESIDENT AND BOARD OF TRUSTEES

**FROM:** William T. Lichter, Village Manager

**DATE:** January 19, 2005 (COW) (B of T) **Date:** February 3, 2005

**TITLE:** Main Street Utility Rehabilitation and Main Street LAPP  
Resident Engineering  
Contract Amendment #1

**SUBMITTED BY:** David A. Dratnol, P.E., Village Engineer *David A. Dratnol*

**BACKGROUND/POLICY IMPLICATIONS:**

Please see attached memo.

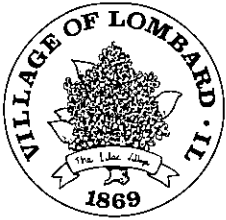
**FISCAL IMPACT/FUNDING SOURCE:**

\$136,338.92 Amended Contract Amount (\$28,524.00 Increase)  
CapProjFd  
HTE Proj: 0200 PW Proj: M-04-05, ST-01-04  
HTE Acct: 7110.809425  
P.O.: 050381

Review (as necessary):

Village Attorney X \_\_\_\_\_ Date \_\_\_\_\_  
Finance Director X *as* *Ronald J. Flood* \_\_\_\_\_ Date *01/25/05*  
Village Manager X *W. T. Lichter* \_\_\_\_\_ Date *1/25/05*

**NOTE:** All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.



## InterOffice Memo

**To:** William T. Lichter, Village Manager  
**From:** David A. Dratnol, P.E., Village Engineer *Deo*  
**Date:** January 19, 2005  
**Subject:** Main St LAPP, Resident Engineering Amendment #1

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Attached please find a contract amendment in the amount of \$28,524.00 for construction observation and documentation associated with the Main St LAPP Project. This resident engineering services contract covers both the underground utilities construction contract as well as the LAPP project. This contract amendment increases the upper limit of compensation for Bollinger, Lach & Associates, Inc. to \$136,338.92. The construction contract duration and the contractor's methodology during construction resulted in this contract amendment.

In the proposal for resident engineering services, forty-five calendar days were included for construction duration. The construction documents and the contractor's schedule called for 45 working days. During the course of construction, the contractor had multiple crews and subcontractors working along the length of the project, which required additional field staff to properly inspect the work in progress. Additional inspection and documentation will also be required to address possible materials deficiencies that became apparent after the road was reopened to traffic and will need to be addressed once the asphalt plants reopen in the spring.

As detailed in the request from Bollinger, Lach & Associates, the additional work effort on the LAPP Project includes \$31,524.00, but as a result of being \$3,000 under budget on the underground portion of the contract, the net contract amendment is \$28,524.00.

Please present this contract amendment to the President and Board of Trustees for their review and approval at their regular meeting on February 3, 2005. If approved, please have two signed copies returned to Engineering for further processing.

cc: File: M-04-05 and ST-01-04  
Wes Anderson, Director of Public Works

**RESOLUTION**

R \_\_\_\_\_ 05

**A RESOLUTION AUTHORIZING  
AMENDMENT OF A PROFESSIONAL  
SERVICES CONTRACT**

**WHEREAS**, the Board of Trustees of the Village of Lombard on May 06, 2004 adopted a resolution authorizing signature of President and Clerk on an agreement between the Village of Lombard and Bollinger, Lach & Associates, Inc.; and

**WHEREAS**, an amendment to said contract is required to legally bind the parties; and

**WHEREAS**, Illinois law exempts professional engineering contracts from the requirements of Illinois Compiled Statutes, Chapter 720, Section 5/33E-9 regarding preparation of change orders.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS, as follows:

**SECTION 1:** That the President and Village Clerk are hereby directed and authorized to execute an amendment to the contract with Bollinger, Lach & Associates, Inc. substantially in the form and manner of Exhibit "A" attached hereto and made a part hereof.

Adopted this 3rd day of February, 2005.

Ayes: \_\_\_\_\_

Nays: \_\_\_\_\_

Absent: \_\_\_\_\_

Approved this 3rd day of February, 2005.

\_\_\_\_\_  
**William J. Mueller**  
Village President

**ATTEST:**

\_\_\_\_\_  
**Barbara Johnson**  
Deputy Village Clerk

**APPROVAL AS TO FORM:**

\_\_\_\_\_  
**Thomas P. Bayer**  
Village Attorney

AGREEMENT TO AMEND A CONTRACT

THIS AGREEMENT made and entered into this 3rd day of February, 2005, by and between the **VILLAGE OF LOMBARD** (the "VILLAGE") and **BOLLINGER, LACH & ASSOCIATES, INC.** (the "CONSULTANT").

WHEREAS, on May 06, 2004 the VILLAGE and CONSULTANT executed a contract regarding certain engineering services relative to the Main Street Utility Rehabilitation and Main Street LAPP projects; and

WHEREAS, the VILLAGE and CONSULTANT have agreed to increase the amount of work to be performed by the CONSULTANT together with a resultant increase in the limit which the contract sum may not exceed;

NOW, THEREFORE, for and in consideration of the foregoing and various covenants in said agreement and the mutual covenants herein contained, it is agreed by and between the parties as follows:

**SECTION 1:** The aforementioned contract shall be amended to expand the scope of work as provided for in the CONSULTANT'S January 13, 2005 letter.

**SECTION 2:** The aforementioned contract shall be amended to show a contract sum not to exceed \$136,338.92.

**SECTION 3:** All other terms, covenants and conditions of said contract heretofore executed which are not amended or deleted herein shall remain in full force and effect.

IN WITNESS WHEREOF, the VILLAGE and CONSULTANT have caused this document to be signed by duly authorized officers who have set their hands and seals the day and year set forth above.

**VILLAGE OF LOMBARD**

By: \_\_\_\_\_  
Village President

ATTEST:

By: \_\_\_\_\_  
Deputy Village Clerk

and **BOLLINGER, LACH & ASSOCIATES, INC.**

By: Michael W. Doel  
CEO

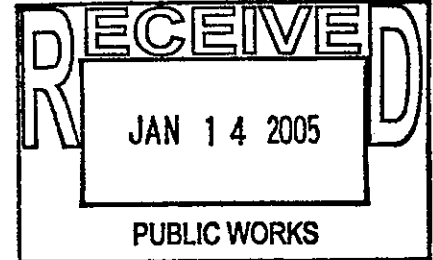
ATTEST:

By: Cory A. Juby Sr. V.P.



January 13, 2005

David A. Dratnol, P.E.  
Village Engineer  
Village of Lombard  
255 East Wilson Avenue  
Lombard, Illinois 60148



Re: Resident Engineering Services for:  
Main Street Utility Rehabilitation  
LAPP Resurfacing Projects  
Contract Documents: M-04-05 & ST-01-04

Mr. Dratnol:

Resident engineering costs for the Main Street project have exceeded those originally estimated as a result of extended construction operations. A supplement in the amount of \$31,524.00 is requested for the reasons as detailed in the attached reasons and description. As previously discussed, Bollinger, Lach and Associates (BLA) has expended funds beyond the original estimated amount in order to provide the necessary field observation of the contractor's work.

Pending further direction, BLA will continue providing engineering services to ensure a timely completion of the project.

Bollinger, Lach & Associates appreciates the opportunity to working with you on this project. If there are any questions, please do not hesitate to contact Bob Rollings or Craig Lukowicz at 630.990.1385.

Sincerely,

BOLLINGER, LACH & ASSOCIATES, INC.

  
Robert R. Rollings  
Chief Construction Engineer



## **Main Street Resurfacing (LAPP) Project Description & Reason for Resident Engineering Supplement**

The following is an explanation of the reason that the actual costs to provide resident engineering services for this project have exceeded the amount originally estimated.

Resident engineering services are a function of the amount of time that the contractor requires to complete work on the project. Actual costs are dependant on how the contractor schedules operations including number of crews working at the same time on critical inspection work, contract extra work such as additional quantities and time and materials work, weather affecting work on the controlling item, and delays caused by outside agencies such as utility company relocations. All of these activities tend to extend the duration of the project causing an increase in resident engineering costs.

### **Project Supervision:**

Chief Construction Engineer Bob Rollings and or Senior Vice President Craig Lukowicz have visited the project on a daily basis to ensure that operations have progressed smoothly. These hours have been absorbed as overhead by BLA, and not billed to the project.

There are two primary reasons accounting for the additional resident engineering time necessary. The first reason is that actual contractor construction operations are taking longer than originally anticipated in the original estimate. The second reason is that additional observation staff was required to provide the necessary observation of critical work items occurring simultaneously.

### **Extended Construction Duration:**

When the original estimate of engineering time was prepared, the construction contract had not yet been let and awarded. The original proposal was based on a project duration of 45 calendar days. The construction documents indicated 45 working days. The resident engineering estimate was prepared before a progress schedule was available from the contractor. Each contractor schedules work to match workloads and availability of crews and subcontractor crews. It is important that the resident engineer be on site during construction operations to ensure that work is being performed properly and that traffic control requirements are being met.

46 days were originally estimated for completion of all observation and engineering work. To date the contractor has worked 45 days plus 6 partial days totaling 48 days. Based on the progress schedule there are up to an additional 17 days of work by the contractor to be performed. Much of this work will occur at different times and will therefore not be concurrent. Traffic signal work is currently anticipated to begin in mid January when the contractor has received all of the traffic signal equipment. Landscaping, signing, striping completion, replacement of surface defects and hand cap ramps will be performed in the spring.

A total of 65 days of contractor construction operations are anticipated for this project, exceeding the 46 days originally estimated for the project by 19 days.

At this time the following construction work remains to be completed:

- Striping: 2 days
  - Landscaping: 4 days
  - Traffic Signals: 4 days
  - Install traffic signs 1 day
  - Prepare Punch List 1 day
  - Punch List Completion 5 days
    - Remove and Replace Handicap Ramps
    - Remove & Replace Surface Defects
- 17 days

Estimated cost to complete field observation work:

Hours: 17 days x 8 hrs/day x \$30.00/hr x 2.8 = \$11,424.00  
Vehicle: 17 days X \$36.00/day = \$ 612.00  
\$12,036.00

The engineering hours originally allowed for completing the project records have been expended by the extended duration of the contractor's work efforts on the project. At this time the following engineering work remains to be completed outside of observation of fieldwork:

- Final Inspection 1 day
  - Review Extra Work Bills 3 days
  - Prepare and Review Final Quantities 2 days
  - Prepare Final Change Orders 1 day
  - Review & Resolve Materials Deficiencies 4 days
  - Prepare Record Drawings 1 day
  - Prepare Final Estimate 1 day
  - Final Papers 1 day
- 14 days

Estimated cost to complete field observation work:

14 days x 8 hrs/day x \$30.00/hr x 2.8 = \$ 9,408.00

**Multiple operations, extended hours and extra work:**

The contractor conducted multiple work operations occurring simultaneously while it was necessary to review agreed unit prices (AUP) and prepare change orders. To obtain timely turn arounds of AUPs, it was necessary for BLA personnel to review prices at the same time as inspection observation tasks were being conducted. Consequently additional personnel were required to supplement the resident due to these additional operations.

In order to maintain effective communications with the local community it was necessary for BLA staff to personally deliver flyers door to door to residences and commercial establishments along this mile and a half long project. This occurred at times when critical work activities were occurring requiring on site observation. Consequently additional personnel were required to supplement the resident due to these additional operations.

The resident engineer personally investigated and met community members, responding to numerous inquiries. Our resident engineer met with residents and delivered notices on Saturdays and as late as 8:00PM on weekdays to ensure a timely response to concerns and that local residents were kept informed of construction activities. These activities extended the resident engineer's work hours beyond the hours anticipated in the original estimate.

Several extra work items were required for this project. It was necessary to keep time and materials records and measure quantities while the work was being performed, pending review and approval by the Village of Lombard and the IL Department of Transportation. This required additional man-hours to track and monitor these activities to ensure an accurate accounting of the actual time required to perform the extra work activities.

Items requiring additional time and materials tracking were; special adjustments, new frames and lid placement, permanent pavement markings, short term pavement markings, and construction of a Prairie Path median crossing.

The contractor worked three Saturdays, which were not anticipated in the original estimate of hours and extended hours on several other days.

Approximately 120 additional man-hours were expended as a result of multiple operations, extended community contacts, and extra work.

Estimated cost associated with multiple operations and extra work:  
120 hrs x \$30.00/hr x 2.8 = \$10,080.00

Summary of additional required engineering expenses beyond the original contract estimate:

Estimated cost to complete field observation work:  
Hours: 17 days x 8 hrs/day x \$30.00/hr x 2.8 = \$11,424.00  
Vehicle: 17 days X \$36.00/day = \$ 612.00

Estimated cost to complete field observation work:  
14 days x 8 hrs/day x \$30.00/hr x 2.8 = \$ 9,408.00

Estimated cost associated with multiple operations and extra work:  
120 hrs x \$30.00/hr x 2.8 = \$10,080.00  
Total = \$31,524.00



A supplement is requested in the amount of \$31,524.00.

There is \$3,000.00 of funds remaining in the utility rehabilitation portion of the contract that could be used to offset a portion of the required supplement for the resurfacing project resulting in a net increase of \$28,524.00 to the engineering agreement.