

RESOLUTION 2020-096

PASSED: AUGUST 24, 2020

**AUTHORIZING A SUPPLEMENT TO A PROFESSIONAL SERVICES AGREEMENT WITH WILLS BURKE KELSEY ASSOCIATES, LTD. FOR ENGINEERING DESIGN OF PEACE ROAD PARTIAL WIDENING, OVERLAY, AND IMPROVEMENTS TO THE INTERSECTION WITH FAIRVIEW DRIVE FOR AN INCREASED TOTAL AMOUNT NOT TO EXCEED \$222,000.**

**WHEREAS**, the City of DeKalb, DeKalb County, Illinois ("the City") is a home rule community with those powers granted under the provisions of the Illinois Constitution and the Illinois Municipal Code, 65 ILCS 5/1-1-1.*et/seq.*; and

**WHEREAS**, the City of DeKalb has applied for and desires to utilize State and Federal funding and must meet the planning requirements for those moneys; and

**WHEREAS**, the Mayor and City Council have determined that it is advisable, for staff to utilize outside vendors to perform engineering design services in the development of Peace Road from Illinois Route 38 to Gurler Road; and

**WHEREAS**, the City maintains relationships for services with several firms from a Qualification Based Selection process, among which are Wills Burke Kelsey Associates, Ltd.

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF DEKALB, ILLINOIS:**


**SECTION 1:** That the City Manager of the City of DeKalb, Illinois, be authorized and directed to approve a supplement to a Professional Service Agreement with Wills Burke Kelsey Associates, Ltd. for Engineering Design of Peace Road partial widening, overlay, and improvements to the intersection of Fairview Drive, in an amount of \$21,623.64 for an increased not to exceed total of \$222,000.

**SECTION 2:** That the City Clerk and/or the Executive Assistant of the City of DeKalb, Illinois be authorized and directed to attest the Mayor's signature and shall be effective thereupon.

**PASSED BY THE CITY COUNCIL** of the City of DeKalb, Illinois, at a Regular meeting thereof held on the 24<sup>th</sup> day of August 2020 and approved by me as Mayor on the same day. Passed by an 8-0 roll call vote: Aye: Morris, Finucane, Smith, Perkins, McAdams, Verbic, Faivre, Mayor Smith. Nay: None.

**ATTEST:**

  
RUTH A. SCOTT, Executive Assistant

  
JERRY SMITH, Mayor



Route  
Local Agency  
TIP ID #

Peace Road (FAU 5369/9700)  
City of DeKalb  
2022-113

**PHASE I/II ENGINEERING  
FOR  
PEACE ROAD AT FAIRVIEW DRIVE INTERSECTION IMPROVEMENTS**

**CITY OF DEKALB**

**SCOPE OF SERVICES**

**CONTRACT SUPPLEMENT No. 1**

The City of DeKalb originally initiated a project requiring professional engineering services by WBK Engineering (WBK) for the performance of Phase I and Phase II engineering services for the intersection improvements at Peace Road and Fairview Drive. The projects scope of services are based on IDOT/FHWA providing concurrence to process it as a Categorical Exclusion – Federal (also referred to as Categorical Exclusion Group II). The City will be utilizing Motor Fuel Tax (MFT) funding for Phase I and Phase II.

On June 15, 2020, the City requested that WBK add to their scope the preparation of design documents for the resurfacing of Peace Road from the north limit of the Ph. I intersection design to a point 400' south of the centerline of IL 38 as Supplement No. 1 to WBK's original scope.

Supplement No.1 scope of services as defined below amends WBK's original scope of services as included in the City of DeKalb's Professional Services Agreement for Service with WBK, dated April 29, 2020.

**UNDERSTANDING OF THE PROJECT (SUPPLEMENT NO. 1)**

**Existing Roadway.** Peace Road is an existing 2-lane and 3-lane rural cross-section with aggregate shoulders and open ditches from IL Route 38 to Fairview Drive. Peace Road within the Supplement No. 1 project limits is classified as a principal arterial. Given the functional classification, use of the roadway, and its location, it is expected that the appropriate geometric design criteria table are the suburban arterial and rural local roads (*Bureau of Local Roads and Streets Manual* Figure 32-2C and D).

**Roadway Resurfacing (Supplement No. 1).** Peace Road is planned to be resurfaced from the north limit of the Ph. I intersection design to a point 400' south of the centerline of IL 38 (Approximately 4,000'). This work is intended to be added to the Ph. II intersection improvement plan set and letting.

WBK will adhere to the schedule in the original scope of services.

**SCOPE OF SERVICES (SUPPLEMENT NO. 1)**

The following is the detailed scope of services associated with **Supplement No. 1**:

**1. GEOTECHNICAL INVESTIGATIONS AND REPORTS**

WBK will coordinate with Patrick Engineering (Patrick) to obtain 6 pavement cores, four (4) on Peace Road and two (2) on Fairview Drive.

For detailed scope of service for the Supplemental Roadway Geotechnical Investigation, which includes all borings and pavement cores, see Patrick's detailed scope of services, attached.

2.1 **Coordination.** WBK anticipates general coordination with Patrick to discuss questions, coordinate site visits, and remediate any issues.

**3. PROJECT ADMINISTRATION**

The supplemental project administration will include the following tasks:

**3.1 Task Management.** Includes contract administration.

**3.2 Internal Reviews.** WBK will perform reviews of all design elements associated with the supplemental project design.

**3.3 Project Schedule.** WBK will maintain the current project schedule.

**4. PHASE II ROADWAY AND TRAFFIC SIGNAL PLANS**

The Supplement No. 1 resurfacing plans will be developed and will be included in the original Phase II plan set. It is assumed that there will be three (3) separate IDOT submittals. The first submittal will be the Pre-final submittal and for this project, scope will be considered ninety-five percent (95%) complete. The second submittal will be the final submittal and for this project scope will be considered one hundred percent (100%) complete. IDOT as part of the "IDOT final check" of the plans and contract documents prior to submittal to the Central Office requires a third submittal to address final comments and is considered the third submittal. The final and final check submittal will include quantity calculations, cost estimate, contract time and special provisions.

4.1 **Roadway and Signal Plans.** The Supplement No. 1 roadway resurfacing plans are working drawings that show the location, configuration and dimensions of the prescribed work that includes: layouts, profiles, traffic signal loop detectors and other necessary details. The plans will be prepared under the supervision of a Professional Engineer. The Supplement No. 1 plan set will consist of the following additional drawings:

- Summary of Quantities (1 Sheets)
- Schedule of Quantities (1 Sheet)
- Alignment, Ties and Benchmarks (1 Sheet)
- Existing Typical Sections (1 Sheets)
  - ❖ 1 – 2 lanes section
  - ❖ 1 – 3 lane section
  - ❖ 1 – super elevation section
- Proposed Typical Sections (1 Sheets)
  - ❖ 1 – 2 lanes section
  - ❖ 1 – 3 lane section
  - ❖ 1 – super elevation section
- Roadway Plan & Profile (3 Sheets) Include Milling and Resurfacing Call Outs
- Pavement Marking and Signing Plan (1 Sheet, 2 views @ 100 scale)
- Traffic Signal Plans **FOR REFERENCE ONLY** (Macom Dr., 2 Sheets)
- Construction Details (3 Sheets)
  - ❖ Butt Joint Construction Detail
  - ❖ Detector Loop Construction Detail
  - ❖ Super Elevation Construction Detail

- District Three Details (1 Sheets)
- 4.2 **Assemble and Submit P,S,&E (3 submittals).** The work under this task for Supplement No. 1 includes time associated with preparing plot files, coordination of printing and distribution of plans to all stakeholders (three submittals). The Scope of Services also includes direct cost for printing and distribution of the documents to the various agencies. The final number of copies will be as directed by IDOT.
- 4.3 **Disposition of Comments.** All submittals will include a formal Disposition of Comments that addresses all review comments regarding the plans or contract documents from IDOT and any other relevant agency.

## 5. Phase II Quantity Calculations

- 5.1 **Quantity Calculations.** Computations associated with the work in Supplement No. 1 and other quantity calculations will conform to the requirements of Section 11-5 of the *BLRS Manual* and the *BDE Manual, Chapter 64*.

WBK will prepare quantity computations for each submittal of the project. The computed quantities will serve as the basis for the Summary of Quantities plan sheet and the engineering opinions of probable construction costs.

The computations will be done in spreadsheet format utilizing Microsoft Excel. The quantities will be developed and submitted to IDOT as requested.

The *Standard Specifications for Road and Bridge Construction, Supplemental Specifications* and the *Recurring Special Provisions* will be cross checked to ensure that the appropriate pay items, methods of measurement and basis of payment are used. For each quantity, the IDOT coded pay item number will be used. These coded pay items will be determined from the *IDOT Coded Pay Items* on the IDOT website.

**QA Review.** Prior to each submittal, the supplemental quantity calculations will be reviewed for accuracy and completeness. The civil quantity calculations will be reviewed by a WBK Senior Project Engineer.

## 6. Phase II Specifications and Special Provisions

- 6.1 **Contract Documents.** WBK will prepare special provisions associated with Supplement No. 1 and shall be inserted into the contract documents being prepared in the original scope of services. The *IDOT Standard Specifications* and *Supplemental Specifications* are included by reference in the first paragraph of the project Special Provisions. Applicable *IDOT Recurring Special Provisions* and *Recurring Local Roads and Streets Special Provisions* will be included by reference by use of the Check Sheet for Supplemental Specifications and Recurring Special Provisions.

Where a project work item contains work, material, unique sequence of operations or any other requirements that are not included in the *Standard Specifications, Supplemental Specifications, Recurring Special Provisions, BDE Special Provisions* or *Guide Bridge Special Provisions*, a project specific Special Provision will be written by WBK. These Special Provisions will conform to the requirements of Section 11-3 of the *BLRS Manual* and the *BDE Manual, Chapter 66*.

- 6.2 **Disposition to IDOT and Client Review Comments.** WBK will provide formal Disposition of Comments that addresses all review comments associated with the submittal.

**7. Cost Estimate and Contract Time**

7.1 **Contract Documents.** WBK will include pay items associated with Supplement No. 1 into the overall engineering opinions of probable construction costs prepared as part of the original scope of services. BLRS Form 11510 will be used to prepare the cost estimate and will include pay item number, item, unit, quantity, unit cost and total cost.

Prior to each submittal, the cost estimate for civil quantities will be reviewed by a WBK Senior Project Engineer.

WBK will prepare a cost breakdown for all Lump Sum pay items required by IDOT. The cost breakdown computations will be done in spreadsheet format utilizing Microsoft Excel.

7.2 **Contract Time.** WBK will include the work associated with Supplement No. 1 when preparing the engineering opinions of contract time for each submittal stage of the project as part of the original scope of services. Itemized production rates will be determined using established guideline shown in the IDOT Chapter 66 of the *Bureau of Design and Environment Manual*.

BDE Form 220A will be used to prepare the contract time and will include item number, item, unit, quantity, average production rate, and number of working days.

**9. Phase II Meetings and Coordination**

WBK assumes one (1) additional meeting with City of DeKalb as part of this supplement.

**COMPENSATION (SUPPLEMENT NO. 1)**

WBK proposes to complete Supplement No. 1, Scope of Services as described above for a cost plus fixed fee, not to exceed amount of **\$21,623.64**, including all labor and reimbursable expenses. A cost and man-hour breakdown is included in the attached cost estimate of consulting services form.

Contract Supplement No.1 cost plus fixed fee as defined above amends WBK's original fee as included in the City of DeKalb's Professional Services Agreement for Service with WBK, dated April 29, 2020 from \$199,561.39 to **\$221,185.03**.

ACCEPTANCE

BY: \_\_\_\_\_

TITLE: President, WBK Engineering, LLC

8/26/2020

BY: \_\_\_\_\_

TITLE: City Manager, DeKalb, IL

8/27/2020

**Exclusions to the Supplement No. 1 Scope of Services**

The foregoing outlines WBK's understanding of the Supplement No. 1 Scope of Services required for the successful completion of this engineering project. The following tasks or items were deemed unnecessary for this project, were excluded from the Scope and would be considered as additional services if required by the City, County or any other agency for the completion of this project.

- A. Separate P, S, & E and separate Letting for the resurfacing of Peace Rd. from Fairview Dr. to IL 38
- B. Cross Sections
- C. Earthwork Excavation Calculations
- D. Traffic Signal Modernization
- E. Lighting Design
- F. Subsurface Utility Engineering or SUE to provide non-destructive method to determine horizontal and vertical alignment of existing utilities will not be included in this scope of services
- G. SWPPP and City of DeKalb Stormwater permit
- H. PSI
- I. ADA Design
- J. Revised Environmental Survey Request submittal
- K. Additional Topographic Survey
- L. Additional Title Commitments and Acquisitions.

**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME WBK Engineering, LLC  
PRIME/SUPPLEMENT Supplement No. 1

DATE 07/17/20  
PTB NO. \_\_\_\_\_

CONTRACT TERM 30 MONTHS  
START DATE 3/1/2020  
RAISE DATE 1/1/2021

OVERHEAD RATE 157.74%  
COMPLEXITY FACTOR 0  
% OF RAISE 3.00%

**ESCALATION PER YEAR**

3/1/2020 - 1/1/2021
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1/2/2021 - 1/1/2022
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1/2/2022 - 9/1/2022
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10
30

12
30

8
30



= 33.33%  
= 1.0282

41.20%

28.29%

**The total escalation for this project would be:**

**2.82%**

# PAYROLL RATES

FIRM NAME

WBK Engineering, LLC

Project

Peace Road at Fairview Drive Ph I and II

Client

City of DeKalb

ESCALATION FACTOR

2.82%

DATE

7/17/2020

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Principal	\$75.00	\$77.12
Engineer VI	\$73.58	\$75.66
Engineer V	\$54.23	\$55.76
Engineer IV	\$37.58	\$38.64
Engineer III	\$34.44	\$35.41
Engineer II	\$33.00	\$33.93
Engineer I	\$27.19	\$27.96
Urban Planner VI	\$74.52	\$76.62
Urban Planner IV	\$43.85	\$45.09
Urban Planner III	\$33.00	\$33.93
ERS III	\$34.45	\$35.42
Technician III	\$36.60	\$37.63
Administrative	\$32.52	\$33.44









**Peace Road / Fairview Drive Phase II**  
**Support Services**  
**Supplement #1**  
**Scope of Work**  
**Patrick Engineering Inc.**

1. Geotechnical Services

Patrick Engineering will obtain 6 pavement cores. Four on Peace Road and two on Fairview Road. The cores are to be alternated from one lane to the other lane. Patrick will use Wang Engineering to take the core samples and provide traffic control. Patrick will observe the sampling (8 hours), analyze the cores (4 hours), and provide a brief summary report (10 hours), for a total of 22 hours. It is assumed that no lab testing is required for the pavement cores.

2. Administration

Project administration effort for the above work is included.

**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME  
PRIME/SUPPLEMENT

Patrick Engineering Inc.  
Supplement #1

DATE 06/25/20  
PTB NO. n/a

CONTRACT TERM \_\_\_\_\_ MONTHS  
START DATE \_\_\_\_\_  
RAISE DATE \_\_\_\_\_

OVERHEAD RATE 142.53%  
COMPLEXITY FACTOR 0  
% OF RAISE \_\_\_\_\_

**ESCALATION PER YEAR**

1/0/1900

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

=  
= 0.0000

**The total escalation for this project would be:**

**0.00%**











**GEOTECHNICAL SERVICES  
UNIT PRICES  
2020**



**Name:** Peace Road Pavement Coring  
**Client:** Patrick Engineering, Inc.  
**Scope:** 6 Pavement Cores with 2-man flagging

**Date:** 06/25/2020  
**Wang No.:** P200614

<b>Task Description</b>	<b>Units</b>	<b>Unit Price</b>	<b>Extended Cost</b>
<b>DRILLING, SAMPLING &amp; INSITU TESTING</b>			
Drilling Coordination, Utilities Clearance, Site Access, Permitting	2.0 Hours	\$112.00 /Hour	\$224.00
<b><u>Hand Augering, Pavement/ Deck Coring &amp; Testing</u></b>			
Two-man crew - normal working hrs	8.0 Hours	\$400.00 /Hour	\$3,200.00
Two-man crew - overtime (2 hrs per day)	0.0 Hours	\$450.00 /Hour	\$0.00
Asbestos content testing on deck cores	0 Tests	\$185.00 /Test	\$0.00
			<b>\$3,424.00</b>
<b>TRAFFIC CONTROL</b>			
<b><u>Roadway Flagmen (two-man crew)</u></b>			
Port-to-Port	8.0 Hours	\$220.00 /Hour	\$1,760.00
			<b>\$1,760.00</b>
<b>SUMMARY</b>			
<b>DRILLING, SAMPLING &amp; INSITU TESTING</b>			\$3,424.00
<b>TRAFFIC CONTROL</b>			\$1,760.00
			<b>\$5,184.00</b>

Note: Prices are for weekday only (Monday through Friday). Weekend rates (Saturdays and Sundays) are higher and will be provided per project