



CHRISTOPHER B. BURKE ENGINEERING, LTD.
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February 8, 2013

Village of Orland Park
14700 Ravinia Avenue
Orland Park, IL 60462

Attention: Kurt Corrigan

Subject: Professional Services Agreement
153rd Street and Ravinia Avenue Span-Wire Traffic Signal
Orland Park, Illinois

Dear Mr. Corrigan:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to submit this proposal for professional engineering services related to traffic signal installation at 153rd Street and Ravinia Avenue in Orland Park, Illinois. Our proposal includes our Understanding of the Assignment, Scope of Services, and Estimate of Fee.

UNDERSTANDING OF THE ASSIGNMENT

The project will involve conducting field reconnaissance, observing Saturday traffic conditions; preparing an inventory of the existing traffic signal related equipment; preparing design plans for a span-wire traffic signal installation; coordinating the construction of the traffic signal, coordination with ComEd for the electrical service installation, construction observation, traffic signal timing optimization and possible coordination for a wireless interconnect to US Route 45.

SCOPE OF BASIC SERVICES

The Scope of Services has been broken down into the following tasks.

Task 1: Field Reconnaissance and Traffic Conditions: CBBEL will conduct a field reconnaissance to verify existing field conditions that may affect the proposed span-wire traffic signal installation. CBBEL will observe traffic conditions during on a typical Saturday from 11:00 AM to 1:00 PM to observe overall traffic operations include vehicular queuing under all way stop conditions.

Task 2: Inventory of Existing Traffic Signal Equipment: CBBEL will coordinate with the Village of Orland Park to prepare an inventory of the existing traffic signal equipment that the Village intends to use for the proposed span-wire traffic signal at 153rd Street and Ravinia Avenue. As part of the inventory, CBBEL will prepare a technical memorandum summarizing the inventory and any recommendations for any upgrades or modifications to the equipment.

Task 3: Design Plans: CBBEL will prepare design plans for the installation of a span-wire mounted traffic signal installation at the intersection of 153rd Street and Ravinia Avenue and submit to the Village of Orland Park for approval. The plans will be prepared based on existing roadway plans to be provided by the Village and supplemented by the data collected in Task 2. The traffic signal modernization plans will be developed based on current IDOT standards. The traffic signal modernization plans will include the following:

- a. Preliminary, Pre-final and Final Temporary Traffic Signal Plans.
- b. Temporary Cable Plan.
- c. Phase Designation Diagram.
- d. Emergency Vehicle Priority System Plan.
- e. Vehicle Detection Details and General Notes.
- f. Technical specifications employing IDOT special provisions, to the extent they apply, will be assembled.

Task 4: Construction Coordination and Observation: CBBEL will coordinate with the Village of Orland Park, Western Utility Contractors, Inc., and ComEd regarding the construction of the span-wire mounted traffic signal installation at 153rd Street and Ravinia Avenue. CBBEL will provide part-time on-site construction observation services and provide consultation to the Village as needed during the construction process.

Task 5: Signal Timing and Implementation: CBBEL will conduct traffic operations analysis utilizing turning movement counts conducted in November, 2012 in HCS software to develop the proposed traffic signal timings. CBBEL staff will coordinate the timings with Village staff and will implement these signal timings and conduct fine-tuning as needed in the field at the time the traffic signal installation is turned on.

SECTION II - SUPPLEMENTAL SERVICES

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.

Signal Monitoring Services: CBBEL will conduct field review of signal operations on a monthly basis to ensure proper signal operation. CBBEL will resolve complaints from the Village pertaining to the traffic signal operation at the intersection of 153rd Street and Ravinia Avenue.

Installation of Wireless Interconnect: CBBEL will conduct coordination efforts with IDOT regarding the installation of wireless interconnect at the intersection of 153rd Street at Ravinia Avenue in the Village of Orland Park. CBBEL will prepare design plans for IDOT approval and develop and implement appropriate traffic signal timings to allow proper coordination with adjacent signals.

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.
- Preparing submittal package.
- 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 public involvement meetings, Plan Commission and Board meetings and hearings, and other project coordination meetings not included under BASIC SERVICES. We can not accurately estimate the time and cost of this due to the nature of these meetings.
- Conducting additional data collection tasks or collecting data at additional locations not included under BASIC SERVICES.
- Giving testimony as an expert witness for the Client in litigation or other court proceedings involving this project.
- Development, distribution, collection, or analysis of personal response surveys of any type, including driver surveys and resident surveys.

- Environmental Assessment and Wetland Mitigation plans or preparation of permit application and documents.
- Location Drainage Study

SECTION III - FEES

Task 1: Field Reconnaissance and Traffic Conditions	\$ 1,500.00
Task 2: Inventory of Existing Traffic Signal Equipment	\$ 1,000.00
Task 3: Design Plans	\$ 8,000.00
Task 4: Construction Coordination and Observation	\$ 5,000.00
Task 5: Signal Timing and Implementation	\$ 3,000.00
Total	\$18,500.00

We will bill on an hourly basis to you at the rates specified in our Master Agreement with the Village. We have established our contract with the General Terms and Conditions that are included in our Master Agreement with the Village, which are expressly incorporated into and are an integral part of this contract for professional services. Supplemental Services will be performed as requested and billed on a time and materials basis.

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

Sincerely,

Christopher B. Burke, PhD, PE, D.WRE
President

Encl. Schedule of Charges

THIS PROPOSAL AND SCHEDULE OF CHARGES ACCEPTED FOR VILLAGE OF ORLAND PARK.

BY: _____
 TITLE: _____
 DATE: _____