



**CHRISTOPHER B. BURKE** ENGINEERING, LTD.  
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August 28, 2012

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

Attention: Kurt Corrigan

Subject: Professional Services Agreement  
153<sup>rd</sup> Street and Ravinia Avenue Technical Memorandum  
Orland Park, Illinois

Dear Mr. Corrigan:

Christopher B. Burke Engineering, Ltd. (CBBEL) is pleased to submit this proposal for professional engineering services related to the traffic operations impacts at 153<sup>rd</sup> Street and Ravinia Avenue due to the Whole Foods Market opening this October at 153<sup>rd</sup> Street and US Route 45 (LaGrange 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 24-hour tube counts, Midday and PM peak hour weekday turning movement counts and Saturday midday turning movement counts at 153<sup>rd</sup> Street and Ravinia Avenue before and after the Whole Foods Market opens this October 2012. The traffic count data will be utilized to perform a traffic signal warrant analysis on the after conditions and capacity analyses on the before and after conditions.

#### **SCOPE OF BASIC SERVICES**

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

**Task 1: Turning Movement Traffic Counts:** CBBEL will conduct four hour manual turning movement counts from 11 am – 1 pm and from 4 pm – 6 pm at 153<sup>rd</sup> Street and Ravinia Avenue during a typical weekday (Tuesday-Thursday). CBBEL will also conduct four hour manual turning movement counts from 10 am – 2 pm on a Saturday. Two separate counts would be conducted for both the weekday and Saturday, one before and one after the Whole Foods Market opens.

**Task 2: ADT Traffic Counts:** CBBEL will collect 4 day 24-hour ADT count data at the intersection of 153<sup>rd</sup> Street and Ravinia Avenue. Four tubes will be utilized to collect volume data across all four approaches at the intersection. Two separate automatic tube counts would be conducted, one before and one after the Whole Foods Market opens. Each of the counts would be conducted from Thursday to Saturday.

**Task 3: Traffic Volume Analysis:** CBBEL will analyze the collected volume data and develop existing 2012 volume data for use in Tasks 4, 5 and 6.

**Task 4: Traffic Signal Warrant Analysis:** CBBEL will utilize the volumes developed in Task 3 to conduct a traffic signal warrant analysis to determine if a signal is warranted at 153<sup>rd</sup> Street and Ravinia Avenue after Whole Foods Market opens.

**Task 5: Capacity Analysis:** CBBEL will utilize the volumes developed in Task 3 to perform two capacity analyses at 153<sup>rd</sup> Street and Ravinia Avenue. One capacity analysis will utilize the before condition volumes and the other the after condition volumes.

**Task 6: Technical Memorandum:** CBBEL will summarize the findings of the volume analysis, traffic signal warrant analysis and capacity analysis in a memorandum format. CBBEL also will recommend any geometric modifications at the intersection.

## **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. 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

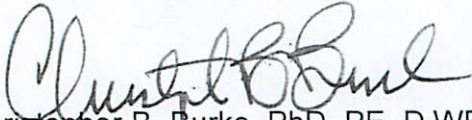
### **SECTION III - FEES**

|                                          |                    |
|------------------------------------------|--------------------|
| Task 1 – Turning Movement Traffic Counts | \$ 3,000.00        |
| Task 2 – ADT Traffic Counts              | \$ 2,500.00        |
| Task 3 – Traffic Volume Analysis         | \$ 2,000.00        |
| Task 4 – Traffic Signal Warrant Analysis | \$ 2,500.00        |
| Task 5 – Capacity Analysis               | \$ 3,500.00        |
| Task 6 – Technical Memorandum            | <u>\$ 5,000.00</u> |
| 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: \_\_\_\_\_