VILLAGE OF GRAYSLAKE
DESIGN ENGINEERING SERVICES
WORK ORDER
GHA PROJECT NO. 4990.016

GHA GEWALT HAMILTON
ASSOCIATES, INC.

C O N S U L T I N G   E N G I N E E R S

625 Forest Edge Drive, Vernon Hills, IL 60061
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Project: Gelatin Factory Trail

Project Understanding

The Village of Grayslake desires to construct an aggregate trail connecting Railroad Avenue to Central Park through the Gelatin Factory property. The intent is for the proposed trail to run parallel to a future extension of Railroad Avenue through the property. The existing buildings on the site are slated to be removed over the winter of 2016-2017.

Scope of Services

The scope of services consists of providing various engineering services to assist the Village in preparing plans for the proposed aggregate trail improvements. The work required consists of the following primary tasks, detailed below:

A. Project Management, Coordination

The following tasks are anticipated during this phase of the project.
GHA will oversee activities included in the scope to successfully complete the project including the topographic and boundary survey, base plan preparation, and final engineering plans and specifications.

B. Topographic & Boundary Survey, Base Plan Preparation

GHA will prepare an existing conditions topographic survey and prepare base plans for a 50' width along the proposed trail alignment.

Our topographic survey will include the following tasks:

* Include the location, size and inverts of all visible drainage structures, cross culverts, drive and street culvert structures with flow directions.
* Identify all visible/substantial site improvements including pavement, pavement markings, driveways, fences, walls, buildings, sidewalks, traffic signals, etc.
* Identify the location and size of existing vegetation and landscaping elements.
* Identify the visible utilities, sanitary and storm manholes, catch basins, inlets and water valves (Design JULIE) in the project area.

C. Design Phase - Final Engineering

GHA will provide the following Design Phase services for the preparation of the final engineering plans for construction of the proposed trail improvements:

1. Preparation of preliminary engineering plans.
2. Preparation of final engineering plans for the proposed streetscape improvements, to include the following:
    a. Title Sheet, including Vicinity Map.

b. Existing Conditions and Demolition Plan showing the existing site conditions from topographic survey, and any site items requiring removal and/or abandonment.

c. Site Plan indicating proposed trail improvements, geometric and grading information, and SE/SC measures. Our plans will be prepared at 1" = 20' scale.

d. General Notes and Standard Detail and Project Detail sheets incorporating Village of Grayslake standards and details.

e. Special Provisions booklet for the overall project will be prepared in accordance with Village procedures and design criteria.

f. GHA will prepare a detailed engineer's opinion of probable construction cost based upon the completed final engineering plans.

g. GHA will assist the Village with coordination of the project letting, and assist the Village with reviewing bid tabulations and making a recommendation for award. It is assumed that this project will be bid jointly with other work occurring in the Village next spring.

h. It is anticipated that the only approval will be by the Village of Grayslake and no other permits will be required.
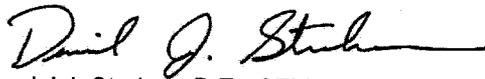
Estimate of Manhours and Fee

<u>Phase of Service:</u>

A.	Project Management (8 hours):	$ 1,100.00
B.	Topographic & Base Plan Preparation (12 hours):	$ 1,300.00
C.	Final Engineering Plans (36 hours):	$ 4,100.00
	Total Services (56 hours):	$ 6,500.00

Note: Proposed upper limit of compensation is $ 6,500.00.
This fee will not be exceeded without prior written approval of the Village.

Gewalt Hamilton Associates, Inc.
Submitted By:

Daniel J. Strahan, P.E., CFM
Associate/Senior Engineer

Village of Grayslake
Accepted By:

Name: Mike Ellis

Title: Village Manager

Date: 10-31-16