

**VILLAGE OF GRAYSLAKE
ENGINEERING SERVICES
WORK ORDER
GHA PROJECT NO. 4990.047**



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Project: Alleghany Park Bike Path

Project Understanding

The Village of Grayslake would like to move forward with plans to construct a bike path extension connecting the existing path system at Village Station Subdivision to the Alleghany Park property owned by the Grayslake Park District. The path would originate from the existing bike path near 55 Thomas Court, cross the existing unimproved IDOT right-of-way (dedicated for future IL 120 extension/bypass) to the Park District property, where it would extend west to the existing access road and connect to the onsite trail system.

Gewalt Hamilton Associates Inc. (GHA) will provide the topographic and boundary survey for the proposed development as well as preliminary and final engineering plans for the proposed improvements listed above. A wetland delineation would be completed to ensure the proposed location would avoid wetland impacts to the extent practical, and permitting through the Illinois Department of Transportation would be required. It is anticipated that there will not be a need for detention based on the nature of the project. Sediment and erosion control measures in accordance to the Lake County Watershed Development Ordinance (WDO) will be adhered to.

Scope of Services

The scope of services consists of providing design engineering services for the proposed Alleghany Park Bike Path Extension project. 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.

1. **Project Management**
Oversee activities included in the scope to successfully complete the project including topographic survey, base plan preparation, final plans, special provisions, estimates of cost, and the bid phase of the project.
2. **Coordination with Utility Agencies**
GHA will coordinate with local utility companies through the JULIE Design State process. Upon receipt of the utility information, the utility company data will be added to the existing drawings. As the preliminary plans are developed, they will be submitted to the respective utility companies within the project limits for the purpose of determining any potential conflicts caused by the proposed improvements.
3. **Bidding Stage Coordination**
GHA will coordinate with the Village to provide final bid documents for posting on the Village website. GHA will submit a bid advertisement to a newspaper of general circulation, coordinate with planholders as needed, attending the bid opening, review all bids, and provide a bid recommendation letter.

B. Topographic & Boundary Survey & Base Plan Preparation

GHA shall prepare an existing conditions, utility, and boundary survey within the project limits noted above and prepare base plan sheets. The survey will meet or exceed the Minimum Standards of Practice as set forth by Illinois Administrative Code for a Topographic Survey. Accordingly, we will provide the following services:

1. Obtain benchmark information (NAVD88) from USGS, County, the Village or Trimble VRS Now Network.
2. Horizontal coordinates shall be referenced to the State Plane Coordinate System, Illinois East Zone, NAD83 adjustment. Vertical elevations shall be referenced to the North American Vertical Datum of 1988 (NAVD88). All units shall be U.S. Survey feet and decimal parts thereof.
3. Establish permanent site benchmark (s) (i.e. crosses or boxes cut on concrete, flange bolts on fire hydrants, etc.) on site.
4. Contours will be provided at 1'-0" maximum vertical intervals; error shall not exceed one-half the contour interval.
5. Spot elevations will be provided on maximum 50-foot grid covering the entire project area. Paved areas will have a grid density of approximately 30'. High points and low points will be shown. Overflow routes will also be shown.
6. The survey will show the location of the visible, physical improvements on the site (e.g. structures, fencing, sidewalks, curbing, trees, etc.).
7. The location of underground utilities, both observed and from available record information, will be provided, including location and size of water mains, fire hydrants and valves. The survey will show depth, size, and direction of flow for all sanitary, storm drains, and culverts serving the property. The location of all manholes, catch basins and all pipe inverts that are accessible will be depicted. The cost for marking of private utilities is not included in this proposal, but GHA will include this information if the Client arranges to have private utilities marked in the field.
8. Location of "dry" utilities such as telephone, electric, gas and cable T.V. lines, etc. will be depicted based on visual surface evidence and available utility atlas information from the respective utility companies. The cost for marking of private utilities is not included in this proposal, but GHA will include this information if the Client arranges to have private utilities marked in the field prior to our field visit.
9. Individual free-standing trees 6" caliper or greater will be shown as deciduous or coniferous. Tagging and species/condition report is not included. Groupings of trees or landscaped areas will be shown in mass.

C. Design Phase – Preliminary & Final Engineering

GHA will provide the following Design Phase services for the preparation of the final engineering plans for the proposed bike path improvements.

1. Preparation of preliminary engineering plans for the proposed bike path improvements, to include the following:
 - a. Preliminary geometric & utility plans.
 - b. Preliminary grading plans.
 - c. Preliminary EOPC for the overall site improvements.
2. Preparation of final engineering plans for the proposed bike path improvements, to include the following:
 - a. Title Sheet, including Vicinity Map.

- b. Overall Site Plan indicating the extent of the proposed bike path and connectivity to the existing trail systems
- c. Existing Conditions and Demolition Plan showing the existing site conditions from topographic survey, and any site items requiring removal and/or abandonment.
- d. Plan and profile sheets.
- e. Construction Detail Drawings of site work items such as pavement, curbs, walks, etc.
- f. Soil Erosion and Sediment Control (SE/SC) Plan with erosion control details. Since the area of disturbance is anticipated to be greater than one acre an IEPA NPDES permit will be required.
- g. General Notes and Standard Detail and Project Detail sheets incorporating appropriate standards and details.
- h. Special Provisions booklet for the overall project will be prepared in accordance with Village procedures and design criteria.
- i. GHA will prepare a detailed engineer's opinion of probable construction cost based upon the completed final engineering plans.

D. Permitting

GHA will coordinate with the appropriate permitting agencies upon completion of final plan documents. Based on the scope of the project we anticipate the following permits will be required:

- 1. Watershed Development Permit- GHA will coordinate with the Village's Enforcement Officer to secure a watershed development permit for the proposed stormwater management and SE/SC components of the site design.
- 2. Lake County SMC (LONI)- The Lake County Wetland Inventory identifies existing wetlands within the IDOT right-of-way in the vicinity of the proposed bike path. GHA will complete a wetland delineation during the growing season (typically May 15-October 1, weather dependent), and submit a LONI application to the Lake County Stormwater Management Commission.
- 3. IDOT Permit- GHA will coordinate all submittals with the IDOT Permit Section in order to obtain approvals for securing a permit for the proposed bike path improvements within the State right-of-way.
- 4. Grayslake Park District- GHA will provide preliminary and final plans to the Grayslake Park District for their review and comment regarding the portion of the improvements to be constructed on Park District property.

Estimate of Manhours and Fee

Phase of Service:

A. Project Management & Coordination (36 hours):	\$ 4,500.00
B. Topographic & Boundary Survey & Base Plan Preparation (68 hours):	\$ 7,800.00
C. Design Phase – Preliminary & Final Engineering (120 hours):	\$ 14,800.00
D. Permitting (62 hours):	\$ 7,600.00
E. Reimbursable Expenses:	<u>\$ 500.00</u>
Total - GHA Services (286 hours):	\$ 35,200.00

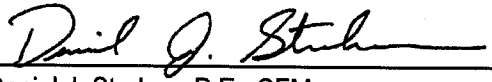
Note: Proposed upper limit of compensation is \$35,200.00.
This fee will not be exceeded without prior written approval of the Village.

Proposed Schedule

GHA anticipates the following schedule:

<u>Date</u>	<u>Task / Milestone</u>
February 28, 2019	Authorization to Proceed
April 1, 2019	Topographic & Boundary Survey Completion
May 2019	Pre-Final Plans Submittal to Village; IDOT Permit Submittal
August 2019	Final PS&E to Village, Permit Submittals, Advertise Bids
September 2019	Village of Grayslake Bid Opening

Gewalt Hamilton Associates, Inc.
Submitted By:



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

Village of Grayslake
Accepted By:



BK

Name: MICHAEL J. ELMS

Title: VILLAGE MANAGER

Date: 04/08/19