

June 3, 2021

Mr. Kevin Lehmann  
Engineer – Public Improvements Technician  
Village of Orland Park  
15655 S. Ravinia Avenue  
Orland Park, Illinois 60462

***Subject: Village of Orland Park - Fernway Subdivision  
Stormwater Improvements 2021  
Design Engineering***

Dear Mr. Lehmann:

Baxter & Woodman, Inc. is pleased to submit this proposal to the Village to perform design engineering for stormwater improvements at the following locations:

<b><u>Road</u></b>	<b><u>Limits</u></b>	<b><u>Length (feet)</u></b>
163 <sup>rd</sup> Street	88 <sup>th</sup> Avenue to Sherwood Drive	721
163 <sup>rd</sup> Street	Sherwood Drive to Cherry Hill Avenue	228
Sherwood Drive	163 <sup>rd</sup> Street to 164 <sup>th</sup> Place	484
164 <sup>th</sup> Street	88 <sup>th</sup> Avenue to Sherwood Drive	711

Our project understanding, scope of services, and engineering fee are presented below.

**Project Understanding**

The Village plans to improve the stormwater management system at the locations listed above, located within the Fernway Subdivision. This work includes the reestablishment of existing culverts and ditch flow lines within the watershed. At locations where ditches cannot be graded to acceptable slopes and where ditches would be too flat to allow for positive drainage, new storm sewers and/or outlets to the creek may be required.

Concurrent with the proposed stormwater improvements, roadway improvements will be completed. Roadway design and related coordination will be prepared for the Village by Baxter & Woodman under a separate contract. The stormwater design and permits secured under this contract will be incorporated into the bid documents that are to be prepared under the Roadway Improvements Contract. This proposal accounts for efficiencies resulting from both the Stormwater Improvements Design Contract and Roadway Improvements Design Contract being completed by Baxter & Woodman. This proposal is contingent on both contracts being completed by Baxter & Woodman.

It is anticipated that topographic survey will be completed under the engineering services contract. It is also anticipated that construction layout will be performed by a resident project representative during the construction phase under a separate construction engineering services contract. Topographic survey and construction services are not included in this scope of work.

### **Scope of Services**

1. STORMWATER ANALYSIS – Ditch grading calculations will be developed based on existing hydrology, with ditches modeled to ensure clearance. Compensatory storage calculations will be computed for areas within Zone AE floodway and floodplain of Tinley Creek. Driveway and road culverts will be sized according to modeling calculations.
2. DESIGN DEVELOPMENT – The Baxter & Woodman roadway design team will provide CAD files for the proposed roadway design, developed under the Roadway Improvements Contract, for use in developing the stormwater design. Perform watershed delineations, ditch calculations, and culvert calculations; assess the need for closed drainage via storm sewers. All information (grades, profiles, pay items, quantities, and specifications) necessary to incorporate the proposed stormwater design into the contract plans will be provided to the roadway design team.
3. PERMITTING – USACE permits with Soil and Water Conservation District signoff are expected for proposed work near the creek. IDNR-OWR Floodway Construction permits will be obtained due to fill placement within the regulatory floodway. From correspondence with the Village, we understand that preparation of documentation to demonstrate compliance with MWRD Watershed Management Ordinance (WMO) requirements is not needed.
4. QC/QA – Perform in-house peer and milestone reviews of analysis and design by senior staff prior to submittals and finalization of contract documents.

### **Engineering Fee**

The Owner shall pay the Engineer for the services performed or furnished as stated above, based upon the Engineer's standard hourly billing rates for actual work time performed plus reimbursement of out-of-pocket expenses including travel, which in total will not exceed **\$39,980**. All terms and conditions of the Master Agreement dated October 1, 2020, with the Village of Orland Park shall apply.

We appreciate the opportunity to work with the Village of Orland Park on this important Project and we are available to begin work immediately upon your notice to proceed. We anticipate completing the above scope of services within three months of receiving the notice to proceed. It is

anticipated that the notice to proceed will be given in spring, design activities will occur during spring/summer, and construction will occur in late summer/fall. If you find this proposal acceptable, **please sign one copy and return for our files.**

Please do not hesitate to contact me at 815-444-3370 or [ddabros@baxterwoodman.com](mailto:ddabros@baxterwoodman.com) or Jay Coleman at 815-444-3277 or [jcoleman@baxterwoodman.com](mailto:jcoleman@baxterwoodman.com) if you have any questions or need additional information.

Sincerely,

BAXTER & WOODMAN, INC.  
CONSULTING ENGINEERS



Dennis Dabros, P. E.  
Vice President

Attachment

**VILLAGE OF ORLAND PARK, IL**

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

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

||Corp.Baxwood.Com\Projects\Azure\ORLPK\211185-2021 Fernway CS\Contracts\Work\211185.41\_Fernway 2021 Stormwater\_Proposal.Doc

**Village of Orland Park**

**Fernway Subdivision Stormwater Improvements 2021**

**Design Engineering**

	<b>Labor Category</b>	<b>Hours</b>	<b>Labor</b>	<b>Expense</b>	<b>Total Compensation</b>
<b>Overall Project Total</b>		<b>254.00</b>	<b>33,980.00</b>	<b>6,000.00</b>	<b>39,980.00</b>
01 Stormwater Analysis		80.00	10,400.00	0.00	10,400.00
	Engineer II	80.00	10,400.00		
02 Design Development		84.00	11,080.00	0.00	11,080.00
	Engineer IV	4.00	680.00		
	Engineer II	80.00	10,400.00		
03 Permitting		78.00	10,460.00	6,000.00	16,460.00
	Engineer IV	8.00	1,360.00		
	Engineer II	70.00	9,100.00		
04 QC/QA		12.00	2,040.00	0.00	2,040.00
	Engineer IV	12.00	2,040.00		