



September 10, 2021

Mr. Kevin Lehmann  
Engineer-Public Improvement Technician  
Village of Orland Park Public Works Department  
15655 South Ravinia Avenue  
Orland Park, IL 60462

Re: Fernway Road and Ditch Reconstruction Phases 7, 8, and 9

Dear Mr. Lehmann:

This proposal presents Strand Associates, Inc.®'s anticipated Scope of Services and associated compensation for providing Phase 2 design engineering of the Fernway Subdivision Road and Ditch Reconstruction for Phases 7, 8, and 9 in the Village of Orland Park.

### **Project Understanding**

It is our understanding this project involves design and permitting for roadway and drainage improvements within drainage subareas 4, 5, and 6 in the Fernway Subdivision. The project covers approximately 9,000 feet of residential roadway and the improvements include complete roadway reconstruction, replacement of all driveway and roadway drainage culverts, and regrading all roadway ditches to drain. The project also includes a combination of spot removal and replacement and overlay of the 88th Avenue multi-use path from Robinhood Drive north to 161st Street.

### **Scope of Services**

Proposed services can be described as follows.

#### Design Services

1. Attend one project startup and kickoff meeting with the Village to discuss project scope and schedule, gather supporting information, including utility and plat mapping, previous project examples, and current Village standards, and to discuss particular project features and amenities preferred by the Village.
2. Prepare and distribute meeting minutes from the kickoff meeting.
3. Perform a site topographic survey. Survey will extend between rights-of-way on the roadways in drainage subareas 4, 5, and 6 as listed in the Village's Fernway Road and Drainage Improvement Program for 2022, 2023, and 2024. This is approximately 9,067 feet of roadway. Intersections will be surveyed to 100 feet on each leg.
4. Call in a JULIE design utility locate request and gather utility mapping from participating Utilities. Strand will contact the Illinois American Water Company directly to acquire utility mapping and to request a field locate. As project drawings are developed to 50 percent completion, these will be provided to the Utility companies with infrastructure in the project limits for their review. Strand will assist the Village in discussions with Utility companies where utilities are required to be relocated. Pre-final drawings will also be provided to the Utility companies as a notification that the Village's project will be proceeding.

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5. Develop preliminary engineering documents to 50 percent completion, including drawings, technical specifications, and opinion of probable construction cost (OPCC). Drawings will include the following:
  - a. Title sheet and location map
  - b. Index of sheets and general notes
  - c. Summary of quantities
  - d. Alignment, ties, and benchmarks
  - e. Typical sections and paving details
  - f. Overall site plan and drawing sheet layout
  - g. Existing conditions
  - h. Erosion control and demolition
  - i. Stormwater Pollution Prevention Plan
  - j. Traffic Control Plan
  - k. Roadway and ditch plan and profile
  - l. Cross sections
  - m. Bike path plans
  - n. Restoration
  - o. Construction details
6. Develop technical specifications based on Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction, Illinois Standard Specifications and Water and Sewer, and Village standard specifications.
7. Submit preliminary documents to the Village for review and attend one meeting with the Village to discuss comments.
8. Prepare and distribute meeting minutes from the preliminary engineering meeting.
9. Submit permit applications, engineering drawings, and technical specifications to the following permitting agencies.
  - a. Metropolitan Water Reclamation District of Greater Chicago (MWRDGC)
  - b. Illinois Department of Natural Resources (IDNR)
  - c. Village of Orland Hills
  - d. Illinois Environmental Protection Agency (IEPA) Notice of Intent (NOI)
10. Attend one pre-application meeting with MWRDGC.
11. Develop pre-final engineering documents addressing agency comments, as necessary, following receipt of permit agency comments.
12. Submit pre-final engineering documents to the Village for review and meet with the Village to discuss comments and a schedule for advertising and bidding the project. It is anticipated that all improvements will be advertised and bid as a single project.

#### Additional Services

1. The Village's Request for Proposal (RFP) does not indicate that any stormwater modeling or calculations are required for design of the drainage improvements, so it is anticipated that the design will follow the Village's basic standards as presented in the RFP and that culvert sizing will be as requested by the Village. However, Strand can assist the Village with modeling of stormwater flows and calculations of ditch and culvert capacities to support design of the improvements. A separate fee has been included in this proposal for these services.

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2. Since significant portions of drainage subareas 4 and 5 are in the floodplain and floodway, it is anticipated that final improvements will be at or below existing grades and will not require compensatory storage design or flood mapping amendments. If these services are required, they will be provided under an amendment to our agreement with the Village.
3. It is anticipated that no wetland or environmentally-sensitive areas will be impacted by the proposed improvements, so wetland delineation and reporting is not included. If these services are required, they will be provided under an amendment to our agreement with the Village.

#### Village Responsibilities

1. The Village shall provide geotechnical information through its own geotechnical consultant. The RFP indicates that one soil boring per street for a total of 11 soil borings will be evaluated. It is our recommendation that the Village consider obtaining additional borings following review of preliminary engineering based on the particular needs of the project.
2. The Village shall provide bid and contracting documents. The contracting documents shall require the contractor to name Strand Associates, Inc.® as an additional insured on its General Liability and Automobile Liability insurance and to indemnify Strand in the same manner as the Village.
3. The Village shall advertise and distribute final engineering documents for bidding. If additional engineering services during bidding are requested, they will be provided under an amendment to our agreement with the Village.

#### **Compensation**

We propose to provide the Design Services described above for a lump sum fee of \$226,000, which represents 1,600 engineering hours.

We propose to provide stormwater modeling as described above in Item 1 under Additional Services for a lump sum fee of \$21,000, which represents 145 engineering hours.

#### **Schedule**

Our proposed fee is based on an anticipated start date before October 15, 2021, with project completion by May 1, 2022.

This letter is not to be considered an agreement between the Village of Orland Park and Strand Associates, Inc.®. Once selected, we will prepare an agreement and submit to the Village for review and signature. Following the execution of the agreement, work on the project will begin.

We look forward to working with the Village on this project. If there are any questions, please contact us at (815) 744-4200.

Sincerely,

STRAND ASSOCIATES, INC.®



Michael R. Waldron, P.E.

P210.875/MRW:mah



Marc A. Grigas, P.E.