

April 13, 2020

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Office of the Sibley County Auditor-
Treasurer Ditch Division
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RE: Proposal for Engineering Services for Sibley-Nicollet Joint
Ditch No. 20 Water Control Structure
Gaylord, Minnesota

ISG

Aaron,

As the Drainage Authority for Sibley County is seeking drainage engineering services to assist with the replacement of a sheet pile outlet control structure, ISG is eager to serve as a local, dedicated, and experienced partner. Understanding that this structure, located near Gaylord, is more than 50 years old and no longer functions optimally, ISG will draw on the firm's considerable experience delivering similar services for drainage systems in southern Minnesota to provide an expanded scope of services.

PROJECT APPROACH

ISG will evaluate the condition of the existing structure and the existing berm to determine if/how it should be replaced. As part of the analysis, ISG will review the configuration and legal capacity of the existing structure and develop alternatives for replacement. This will include metal sheet pile weir, concrete weirs, control structures, and culvert control, along with recommendations for the existing berm. A cost estimate will be presented to the Drainage Authority prior to moving forward with final design. Examples of these types of structures include the following:

290+
EMPLOYEES

160+
MN PROFESSIONALS

ZWEIG GROUP
HOT FIRM LIST FOR 2019

TOP 500
2019 ENR FIRM



Le Sueur/Blue Earth County
Judicial Ditch No. 2 –
Sheet Pile Weir (CR Farms)



Blue Earth County Ditch
No. 96 – Concrete Weir



Jackson County Ditch No. 30 –
Culvert + Control Structure

SCOPE OF SERVICES

Land Surveying

ISG will provide a topographic survey of the existing sheet pile outlet control structure and surrounding dike. This will include a review of the original plans and data to verify the legal elevation of the structure.

Geotechnical Evaluation

ISG recommends completing a geotechnical evaluation to determine the conditions and composition of the existing soils in berm. This will yield valuable information regarding whether the existing soils have the capacity to hold back the wetland area without further modification. ISG will work with Braun Intertec (Braun), a qualified geotechnical consultant and trusted partner, in reviewing the soil boring report to determine the most appropriate steps for moving forward with the proposed project. This proposal assumes that ISG will contract directly with Braun to provide the soil borings. ISG will coordinate with Braun to identify appropriate soil boring locations. See attached Braun Proposal.

Hydraulic Analysis

ISG has determined that no previous hydraulic analyses have been completed for the watershed; therefore, ISG will develop a new hydrologic and hydraulic model for the watershed using XPSWMM software for the hydrologic and hydraulic portions and export flows into a 2D model for the immediate upstream and downstream portions of the project. Peak flows for the existing and proposed scenarios will be developed for various storm events.

Hydraulic Report

A summary report will be prepared following the modeling to include results from the analysis and recommendations for the control structure replacement. The report will include options for replacement and preliminary cost estimates.

Design of Replacement Structure + Dike Repairs

Based on ISG's concepts and upon receiving the appropriate approvals from the Drainage Authority, ISG will prepare final construction documents for the project. Construction plans will be completed based on the Drainage Authority's comments and ISG/Braun's recommendations.

Construction Specifications + Bid Documents

ISG will utilize the construction plans to publicly bid the project and develop a contract with the Drainage Authority for the construction of the project. ISG will bid the project and provide recommendations.

Construction Administration + Inspection

This proposal anticipates that ISG will provide construction administration services for this project. These services will involve shop drawing and submittal review, site visits and observations as requested by the Owner, review and approval of change orders and payment requests, and project close-out activities, including a site walk-through and preparation of a final punchlist.



COMPENSATION

ISG proposes to provide the scope of services described within this proposal for compensation in accordance with the following schedule:

Service	Compensation
Land Surveying	\$2,700
Geotechnical Evaluation + Report (Braun Intertec)	\$32,361
Hydraulic Analysis	\$13,500
Hydraulic Report	\$8,900
Design of Replacement Structure + Dike Repairs	\$3,000
Construction Specifications + Bid Documents	\$1,500
Construction Administration + Inspection	\$3,800
TOTAL	\$65,761

Reimbursable Expenses

Anticipated reimbursable expenses such as travel, mileage, and printing are included within the compensation listed above.

ISG appreciates the opportunity to provide a solution tailored to the needs of the Drainage Authority. Upon acceptance of this proposal, please sign the acknowledgment box below and return a copy to our office. We look forward to providing you with responsive service, a collaborative approach, and timely delivery.

Sincerely,

Chuck Brandel, PE
Vice President

ACKNOWLEDGMENT OF ACCEPTANCE

Accepted this _____ day of _____, 2020.

Name: _____

Title: _____

Signature: _____

This proposal is valid for 30 days.