



Brainerd City Council Agenda Request

Requested Meeting Date:

Title of Item:

<input type="checkbox"/> INFORMATION ONLY <input type="checkbox"/> CONSENT AGENDA <input type="checkbox"/> P&F COMMITTEE <input type="checkbox"/> SPW COMMITTEE <input type="checkbox"/> MAIN AGENDA	<p>Action Requested:</p> <input type="checkbox"/> Approve/Deny Motion <input type="checkbox"/> Adopt Resolution (attach draft) <i>*provide copy of published hearing notice</i>	<input type="checkbox"/> Direction Requested <input type="checkbox"/> Discussion Item <input type="checkbox"/> Hold Public Hearing* <input type="checkbox"/> Ordinance 1 st Reading
Submitted by:	Department:	
Presenter (Name & Title):	Estimated Time Needed:	
Summary of Issue:		
Alternatives, Options, Effects on Others/Comments:		
Recommended Action/Motion:		
<p>Financial Impact:</p> <p>Is there a cost associated with this request: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>What is the total cost, with tax and shipping \$ _____</p> <p>Is this budgeted? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><u>Please Explain:</u></p>		

February 4, 2021

Proposal QTB133479

Mr. Casey Zins
Short Elliott Hendrickson, Inc.
416 6th Street, Suite 200
Brainerd, MN 56401

Re: Proposal for a Geotechnical Evaluation
Cuyuna Lakes State Trail
SE 19th Street to SE 28th Street
Brainerd, Minnesota

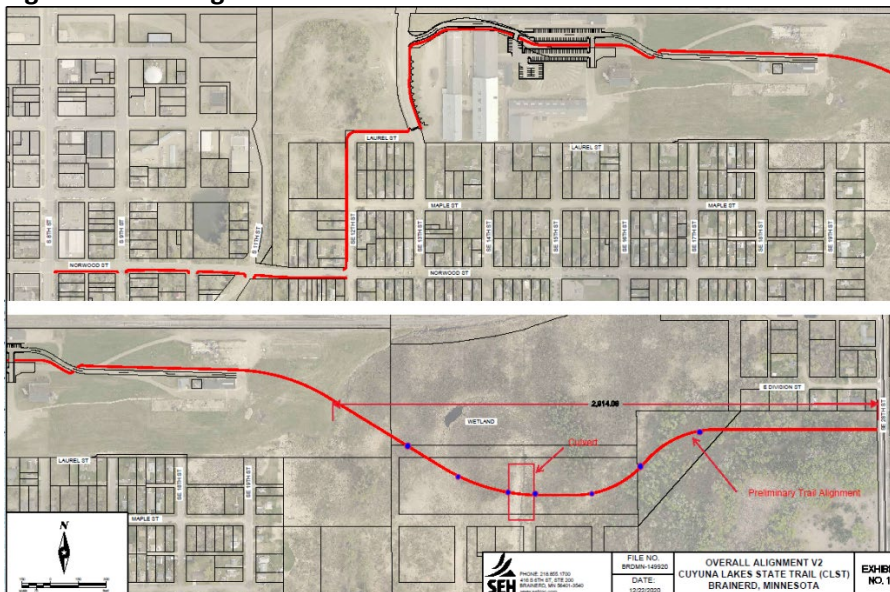
Dear Casey:

Braun Intertec Corporation respectfully submits this proposal to complete a geotechnical evaluation for a segment of the Cuyuna Lakes State Trail (CLST) at the referenced site.

Project Information

Per our discussion, we understand the proposed project will include the construction of a new segment of the CLST. The project will generally extend along several streets in the City of Brainerd to the Northern Pacific Center, east across that property, then across a wetland area, connecting to Southeast 28th Street. This evaluation will focus on the wetland portion of the alignment. The alignment is shown in Figure 1 below. There will also be a culvert crossing as shown below.

Figure 1. CLST Alignment



Purpose

The purpose of our geotechnical evaluation will be to characterize subsurface geologic conditions at selected boring locations, evaluate their impact on the project, and provide geotechnical recommendations for the design and construction of a portion of the trail.

Scope of Services

We propose the following tasks to help achieve the stated purpose. If we encounter unfavorable or unforeseen conditions during the completion of our tasks that lead us to recommend an expanded scope of services, we will contact you to discuss the conditions before resuming our services.

Site Access

Based on a site visit, it appears that the site will require frozen ground and a track-mounted drill rig. We assume there will be no cause for delays in accessing the boring locations. We are not including tree clearing, debris or obstruction removal, grading of navigable paths, or snow plowing.

Depending on access requirements, ground conditions or potential utility conflicts, our field crew may alter the boring locations from those proposed to facilitate accessibility.

Our drilling activities may also impact the vegetation and may rut the surface to access boring locations. Restoration of vegetation and turf is not part of our scope of services.

Staking

SEH will stake the proposed boring locations and provide ground surface elevations at each of the locations.

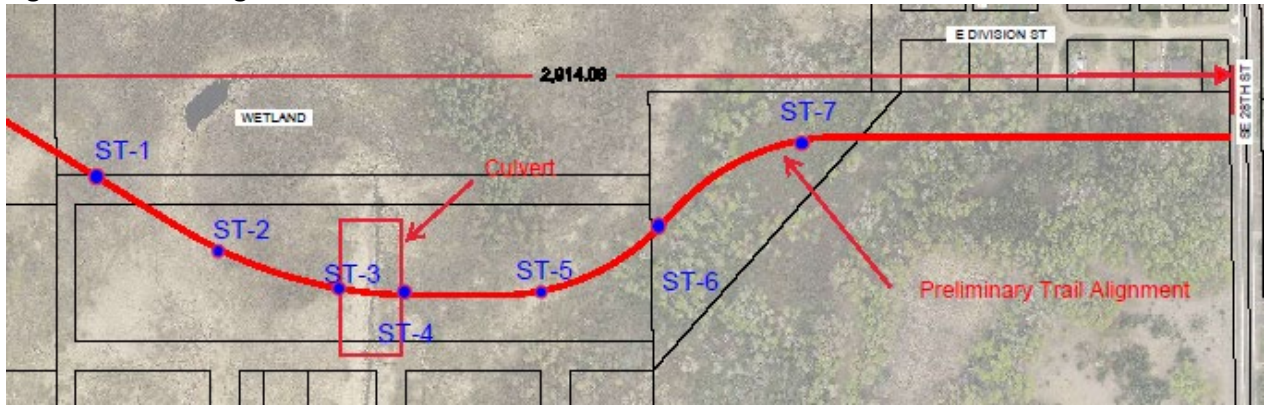
Utility Clearance

Prior to drilling or excavating, we will contact Gopher State One Call and arrange for notification of the appropriate utility vendors to mark and clear the boring locations of public underground utilities. You, or your authorized representative, are responsible to notify us before we begin our work of the presence and location of any underground objects or private utilities that are not the responsibility of public agencies.

Penetration Test Borings

We propose to drill 7 standard penetration test borings for the trail and culvert, extending them each to a depth of 15 feet. We will perform standard penetration tests at 2 1/2-foot vertical intervals to a depth of about 15 feet. Our proposed boring locations are shown in Figure 2 below.

Figure 2. Soil Boring Locations



If the borings encounter groundwater during or immediately after drilling of each boring, we will record the observed depth on the boring logs.

If the intended boring depths do not extend through unsuitable material, we will extend the borings at least 5 feet into suitable material at greater depths. The additional information will help evaluate such issues as excavation depth, consolidation settlement, and foundation alternatives, among others. If we identify a need for deeper (or additional) borings, we will contact you prior to increasing our total estimated drilled footage and submit a Change Order summarizing the anticipated additional effort and the associated cost, for your review and authorization.

Borehole Abandonment

We will backfill our boring locations immediately after completing the drilling at each location. Minnesota Statutes require sealing temporary borings that are 15 feet deep or deeper. Based on our proposed subsurface characterization depths, we currently do not anticipate having to seal any of the borings.

Over time, subsidence of borehole backfill may occur, requiring releveling of surface grades or replacing bituminous or concrete patches. We are not assuming responsibility for re-leveling or re-patching after we complete our fieldwork.

Sample Review and Laboratory Testing

We will return recovered samples to our laboratory, where a geotechnical engineer will visually classify and log them. To help classify the materials encountered and estimate the engineering properties necessary to our analyses, we anticipate performing 48 moisture content tests, 8 mechanical analyses (through a #200 sieve only), 4 Atterberg limits tests, and 4 organic content tests. We will adjust the actual number and type of tests based on the results of our borings.

Engineering Analyses

We will use data obtained from the boring and laboratory tests to evaluate the subsurface profile and groundwater conditions, and to perform engineering analyses related to structure and pavement design and performance.

Report

We will prepare a report including:

- A sketch showing the boring locations.
- Logs of the borings describing the materials encountered and presenting the results of our groundwater measurements and laboratory tests.
- A summary of the subsurface profile and groundwater conditions.
- Discussion identifying the subsurface conditions that will impact design and construction.
- Discussion regarding the reuse of on-site materials during construction.
- Recommendations for preparing structure and pavement subgrades, and the selection, placement and compaction of fill.
- Recommendations for the design and construction of the trail.

We will only submit an electronic copy of our report to you unless you request otherwise. At your request, we can also send the report to additional project team members.

Schedule

We anticipate performing our work according to the following schedule.

- Drill rig mobilization – within about two to three weeks following receipt of written authorization
- Field exploration – 2 days on site to complete the work
- Classification and laboratory testing – within 1 to 2 weeks after completion of field exploration
- Preliminary results – within one week after completion of field exploration
- Draft report submittal – within about three weeks of completing the field work
- Final report submittal – within 5 days of receiving comments on the draft report

If we cannot complete our proposed scope of services according to this schedule due to circumstances beyond our control, we may need to revise this proposal prior to completing the remaining tasks.

Fees

We will furnish the services described in this proposal for a lump sum fee of \$13,900. Please note that our drilling/field services were budgeted to occur within our normal work hours of 7:00 a.m. to 4:00 p.m., Monday through Friday. If conditions occur that require us to work outside of these hours, we will request additional fees to cover our additional overtime costs.

Our work may extend over several invoicing periods. As such, we will submit partial progress invoices for work we perform during each invoicing period.

General Remarks

We will be happy to meet with you to discuss our proposed scope of services further and clarify the various scope components.

We appreciate the opportunity to present this proposal to you. Please sign and return a copy to us in its entirety.

We based the proposed fee on the scope of services described and the assumptions that you will authorize our services within 30 days and that others will not delay us beyond our proposed schedule.

We will provide our services under the terms of our Master Services Agreement with SEH.

To have questions answered or schedule a time to meet and discuss our approach to this project further, please contact Steve Thayer at 320.980.3187 or sthayer@braunintertec.com.

Sincerely,

BRAUN INTERTEC CORPORATION



Steven A. Thayer, PE
Senior Engineer



Joseph C. Butler, PE
Business Unit Manager, Senior Engineer

The proposal is accepted, and you are authorized to proceed.

Authorizer's Firm

Authorizer's Signature

Authorizer's Name (please print or type)

Authorizer's Title

Date