



NTI[™]
NORTHERN
TECHNOLOGIES, LLC

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Unearthing confidence[™]

August 19, 2019

City of Ramsey
Attention: Joe Feriancek
7550 Sunwood Drive Northwest
Ramsey, MN 55303

RE: Proposal for Geotechnical Services
20-01 Variolite Street Reconstruction
Ramsey, Minnesota
NTI Proposal P9544

We are pleased to submit our proposal to perform Geotechnical Services for the above referenced project. The purpose of this study is to collect representative soil samples, analyze the subsurface soil and groundwater conditions and to furnish a detailed geotechnical engineering report with appropriate design and construction recommendations.

The proposed project consists of the reconstruction of 2.25 miles of Variolite Street in Ramsey, Minnesota.

SCOPE OF WORK

The following is our proposed work scope based on the request for proposal provided by the City of Ramsey.

NTI will mark the proposed boring locations based upon information provided in the request for proposal documents and also periodic field stationing stakes that are to be provided by a representative of the city. We will make you aware of these field activities before proceeding to the site to allow you the option to notify any pertinent parties prior to NTI's field work.

NTI will contact the Minnesota "One-Call" system for clearance of public utilities within the area of the soil borings.

NTI will then mobilize a truck mounted drill to the site to drill 61 borings each to a depth of approximately 10 feet below existing grade.

Precision · Expertise · Geotechnical · Materials

FARGO

BISMARCK

GRAND FORKS

INVER GROVE HEIGHTS

RAMSEY

RAPID CITY



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Ramsey, Minnesota**

The total lineal feet of drilling proposed is 610 feet. Borings may be terminated early if soil/bedrock conditions resulting in practical auger refusal are encountered prior to the proposed termination depths. If soft soils or organic soils are encountered near termination we will continue drilling a reasonable depth until a minimum of five (5) feet of suitable stable soils are observed.

Soil sampling in the borings will be performed at 2-1/2-foot intervals. Soil sampling will be performed in general accordance with ASTM D 1586.

A geotechnical engineer will visually classify field-collected samples in general accordance with ASTM D 2488. Each soil sample's color, relative moisture, SPT N-value, relative density, consistency and estimated compressive strength will be documented on soil boring logs.

We will measure for the presence of groundwater or lack thereof when we complete each soil boring. We will backfill the soil borings with soil cuttings or high solids bentonite grout to comply with current Minnesota Department of Health Regulations.

We will perform laboratory tests on selected soil samples, this may include:

1. Plastic/liquid limit tests on cohesive soils.
2. Moisture tests.
3. Gradations.
4. Organic content tests.

Upon completion of the field and laboratory work, a geotechnical engineering report will be prepared. The report will include the logs of the borings, photographs of the cores, location drawing and the results of the field and laboratory tests. In addition, the report will include our engineering opinions and recommendations regarding:

1. Site preparation and excavation recommendations.
 2. Engineered fill and compaction recommendations.
 3. Anticipation and management of groundwater for design and construction.
 4. Recommendation for utility installations.
 5. Potential construction difficulties regarding excavation and backfill.
 6. Estimated R-Value for use in bituminous pavement design.
 7. Recommended pavement design thickness.
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NTI's engineers are also available to provide geotechnical guidance to the design team, evaluate value engineered alternatives, review earthwork, groundwater control, and other civil plans and specifications as an additional service. NTI's engineers, special inspectors and technicians are available to provide construction and materials testing services once the project construction begins. This provides professional continuity of services throughout the design and construction of the project.

DELIVERABLES

NTI will provide an electronic PDF copy of the final report to the client. Two bound hard copies are available upon request.

COST

We will perform the base geotechnical exploration and report described above in accordance with the attached proposal bid form.

Our fees assume that the soil can be disposed of on site, such as by thin spreading near the borehole. Additional fees may apply for handling the spoils or for containerizing (drumming) spoils. Environmental hazard testing may be required for disposal to a landfill, if needed.

NTI's fees assume that the work may be performed with standard construction Personal Protective Equipment (PPE), including hard hats, safety glasses, hearing protection and visibility equipment such as vests. If additional PPE is required, such as for drilling in an environmentally contaminated area or in a confined space, additional fees will apply.

SCHEDULE

Upon receiving authorization to proceed, the field work will typically begin in approximately 10 to 15 business days and will take approximately 5 days to complete. The report will be issued to you within 7 to 10 business days of completion of the field work. Boring logs and verbal information regarding our findings can be provided within 2 to 3 days after the field work has been completed.



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Ramsey, Minnesota

ACCEPTANCE

Please indicate your acceptance of this proposal by signing on the signature block below and returning a copy to us. This proposal is effective until October 30, 2019.

We thank you for the opportunity of submitting this proposal and look forward to working with you through both the design and construction phase of this project. If you have any questions regarding this proposal, please contact the undersigned at 763-433-9175.

NORTHERN TECHNOLOGIES, LLC

CITY OF RAMSEY

By: _____

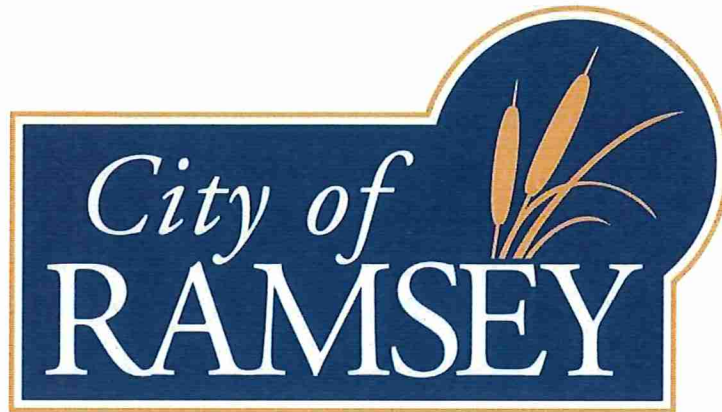
Richard S. Jett, EIT
Staff Engineer

Printed Name: _____

Ryan M. Benson, P.E.
Vice President

Title: _____

Date: _____



**REQUEST FOR PROPOSAL
20-01 VARIOLITE STREET
STREET RECONSTRUCTION
Geotechnical Report
City of Ramsey**

ISSUE DATE
August 1, 2019

PROPOSAL MUST BE RECEIVED BY:
10:00 am on Wednesday August 21, 2019

DELIVER PROPOSAL TO:
City of Ramsey Municipal Center
7550 Sunwood Drive NW
Ramsey, MN 55303
Att: Joe Feriancek
763-433-9893

INTRODUCTION: The City of Ramsey (City) is requesting proposals for the preparation and delivery of a geotechnical report along Variolite Street as shown in the attached exhibit. Variolite Street is a 2.25 mile collector street with an ADT of 1,300 and a 50 mph speed limit. The scope of this work includes:

- 61 soil borings per the attached exhibit
- A standard geotechnical report including construction feasibility for public utilities and pavement section
- Logs of soil borings with descriptions of nomenclature used for defining the site soils
- Estimated subgrade support strength parameters for design of the bituminous roadways and recommendations for soil corrections
- Recommendations for earthwork associated with installation of storm sewer, watermain, and sanitary sewer
- Recommendations for management of groundwater for design of structures and pavements

SOIL BORING REQUIREMENTS: Soil borings to a depth of 10-feet will be taken at stationing shown on the attached “Boring Hole Location” exhibit. Soil borings will alternate between drive lanes. Cores of the existing bituminous pavement will be required. Cores will be taken to verify thickness and structural integrity of the existing pavement and base. Pictures of the cores will be included in the final report. In the area identified as Groundwater Investigation Area on the attached exhibit, borings must be deep enough to locate groundwater. Any additional depth beyond 10-feet will be paid per lineal foot. The Contractor must perform sufficient survey work to locate holes approximately 5 feet horizontally and approximately 0.5 feet vertically. The Contractor is responsible for locating all utilities prior to starting boring operations.

SOIL BORING LOG REQUIREMENTS: A field boring log will be prepared by the Contractor for each boring with a copy included in the final report. The field boring logs will include the following information:

- The project identification number
- Location of the boring referenced by centerline stationing using the Anoka County Coordinate System with NAD 83
- Boring log number
- Method of drilling and sampling, diameter of bore hole
- Date, name of driller and crew
- Ground surface elevation and ground water elevation measured to the nearest 0.5 feet
- Definition of all symbols that are not otherwise self-explanatory
- Classification, thickness, color, moisture condition (dry, moist, wet, saturated), composition and degree of compactness
- Field number of any samples taken, type of sample and depth taken
- Depth at which obstacles were encountered in advancing the boring
- Any other unusual conditions encountered during drilling and sampling

SCHEDULE: A written schedule of the work shall be submitted identifying all work components and showing work start and completion dates required to comply with the schedule. Once work has commenced, the Contractor shall continuously pursue completion in accordance with the approved schedule. The final Geotechnical Report must be delivered to the City by Friday, October 11, 2019.

PROPOSAL SUBMITTAL: An itemized quote shall be submitted for the proposed work using the form at the end of this Request for Proposal (RFP).

COMMUNICATION WITH THE CITY: If any requirements of this RFP are not clearly understood, the Contractor is responsible for contacting the City for further clarification in a prompt manner. Responses to inquiries, if they change or clarify the RFP in a substantial manner, will be forwarded by addenda to the RFP.

SUBMISSION: A signed copy of the attached proposal form is request by **10:00 A.M. Friday, August 21, 2019.** Deliver to the Ramsey Municipal Center, 7550 Sunwood Drive NW, Ramsey MN 55303 to the attention of Joe Feriancek, Engineer Technician. E-mail quotes will be accepted and may be sent to jferiancek@cityoframsey.com.

PROPOSAL UNDERSTANDING: By submitting a proposal, the Contractor agrees to be bound to the terms and conditions herein.

COSTS OF PREPARATION: Under no condition will any costs of preparation of the proposal be reimbursed by the City.

LICENSE AND INSURANCE: By submitting a proposal, the Contractor affirms they shall maintain the following minimum insurance coverage while completing their work as related to this RFP in the following amounts: Commercial General Liability \$1,000,000 per occurrence (written on an occurrence based form bodily injury and property damage); automobile liability \$1,000,000 per occurrence (including hired & non-owned bodily injury and property damage). The City of Ramsey shall be named as an additional insured on the Commercial General Liability insurance. Certificates of Insurance for all of the above insurance shall be filed with the City prior to the work. The Contractor also affirms they shall be licensed to perform the work in the State of Minnesota, and the work shall comply with all state and local laws.

WORKING HOURS: The work shall be carried out during normal working hours so as not to cause any unreasonable nuisance to affected residents and businesses. Under emergency conditions, this limitation may be waived in writing by the Engineer in conjunction with qualified local authority. Normal working hours for this work are considered to be from 7:00 a.m. to 8:00 p.m., Monday through Friday.

WORK AND STAGING AREAS: The Contractor shall confine their work activities within City owned properties and right of way. No equipment shall be left on City streets outside normal

working hours. Traprock Commons Park located at 15650 Traprock Street, has access to Variolite Street and is available for staging.

TRAFFIC CONTROL: Work shall be conducted in conformance with the specifications set forth herein and in accordance with the Minnesota Department of Transportation Standard Specifications for Construction, 2018 Edition, which is incorporated by reference to these specifications.

PAYMENT: Payment will be made upon submittal of an invoice to the City on a net 30 day basis following City acceptance of the work. An IC 134 form will be required prior to final payment.

BASIS OF PAYMENT: Payment shall be made for the work on the basis specified below. The cost of any additional labor, materials, permits, tools and supplies which have not been specifically identified in this section for payment, but required to complete the project as per the plans and specifications shall be considered incidental to the project.

1. *Mobilization* – Payment shall be made on a lump sum basis for the mobilization of equipment.
2. *Geotechnical Report* – Payment shall be made on a lump sum basis as compensation for all development of the geotechnical report meeting the requirements outlined in this RFP.
3. *Soil Boring* – Payment shall be made on a per each basis as compensation for all equipment, material and labor costs required for the soil boring and all required documentation of soil borings as outlined in this RFP.
4. *Soil Boring Additional Depth* – Payment shall be made on a per lineal foot basis as compensation for all equipment, material and labor costs required for soil boring at depth beyond 10-feet. The cost of meeting any Minnesota Department of Health requirements for abandonment of geotechnical soil bore holes, including holes deeper than 15-feet are incidental to this pay item.
5. *Traffic Control* – Payment shall be made on a lump sum basis as compensation for all equipment, material, and labor costs required for the installation and maintenance of traffic control measures (signage, barricades, flashers, flaggers, etc.), as directed by the Engineer, for any local traffic disruptions or temporary closures.

PROPOSAL

This proposal is submitted to the City of Ramsey for City Improvement Project #20-01 Variolite Street Reconstruction Geotechnical Report. That Northern Technologies, LLC accepts the terms and conditions herein and agrees to deliver the final Geotechnical Report to the City by Friday, October 11, 2019, and to complete all work described herein for the following unit prices or lump sum:

Item No.	Item Description	Unit	Quantity	Price	Extension
1	Mobilization	LS	1	<u>\$1,000</u>	<u>\$1,000</u>
2	Geotechnical Report	LS	1	<u>\$3,500</u>	<u>\$3,500</u>
3	Soil Boring	EA	61	<u>\$250</u>	<u>\$15,250</u>
4	Soil Boring Additional Depth	LF	1	<u>\$25</u>	<u>TBD</u>
5	Traffic Control	LS	1	<u>\$10,000</u>	<u>\$10,000</u>
Total Bid Lines 1-5					<u>\$29,750</u>

Contractor Name Northern Technologies, LLC

Owner or representative Ryan Benson

Phone(s) 651-389-4181

E-mail RyanB@NTIGeo.com

Signature 

Date 8/19/2019