



AMERICAN
ENGINEERING
TESTING, INC.

CONSULTANTS

- GEOTECHNICAL
- MATERIALS
- ENVIRONMENTAL

**REPORT OF GEOTECHNICAL
EXPLORATION AND REVIEW
STREET AND UTILITY
IMPROVEMENTS**

Eagle Lake, Minnesota

AET Project No. 08-09549

Date:

January 21, 2010

Prepared for:

Bolton and Menk
Attn: Brian Malm
1960 Premier Drive
Mankato, MN 56001



CONSULTANTS
• ENVIRONMENTAL
• GEOTECHNICAL
• MATERIALS
• FORENSICS

January 21, 2009

Bolton and Menk
1960 Premier Drive
Mankato, MN 56001

Attn: Brian Malm

RE: Geotechnical Exploration and Review
Street and Utility Improvements
Eagle Lake, Minnesota
AET Project No. 08-09549

Dear Mr. Malm:

American Engineering Testing, Inc. (AET) is pleased to present the results of our subsurface exploration program and geotechnical engineering review for your Street and Utility Improvements project in Eagle Lake, Minnesota. These services were performed according to our proposal to you dated December 31, 2009.

We are submitting five (5) copies of the report to you.

Please contact me if you have any questions about the report. I can also be contacted for arranging construction observation and testing services during the earthwork phase.

Sincerely,
American Engineering Testing, Inc.

Gregory A. Guyer, PE
Manager - Mankato
Phone: (507) 387-2222
Fax: (507) 387-6999
gguyer@amengtest.com
GAG/lmh

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1730 First Avenue Mankato, MN 56001
Phone 507-387-2222 • Toll Free 800-972-6364 • Fax 507-387-6999 • www.amengtest.com

Offices throughout Florida, Minnesota, South Dakota & Wisconsin
AN AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY EMPLOYER

**Report of Geotechnical Exploration and Review
Street and Utility Improvements
Eagle Lake, Minnesota
AET Project No. 08-09549**

January 21, 2010

Prepared for:

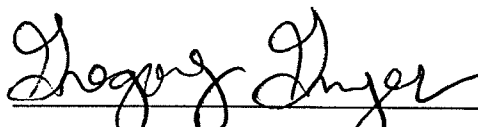
Bolton and Menk
1960 Premier Drive
Mankato, Minnesota 56001

Attn: Brian Malm

Prepared by:

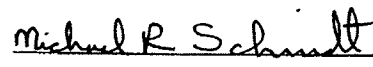
American Engineering Testing, Inc.
1730 1st Avenue
Mankato, Minnesota 56001
(507) 387-2222/www.amengtest.com

Report Authored By:



Gregory A. Guyer, PE
Manager – Mankato

Peer Review Conducted By:



Michael R. Schmidt, PE
Principal

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Date: 1/21/10 License #44618

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STANDARD DATA SHEETS

 Definitions Relating to Pavement Construction

APPENDIX A – Geotechnical Field Exploration and Testing

 Boring Log Notes

 Unified Soil Classification System

 Figure 1 – Site Location

 Figure 2 - Boring Locations

 Subsurface Boring Logs

APPENDIX B – Geotechnical Report Limitations and Guidelines for Use

**GEOTECHNICAL EXPLORATION AND REVIEW
FOR
STREET AND UTILITY IMPROVEMENTS
EAGLE LAKE, MINNESOTA
AET PROJECT NO. 08-09549**

1.0 INTRODUCTION

You are proposing to construct or reconstruct street pavement and site utilities on several streets within the city of Eagle Lake, Minnesota. To assist planning and design, you have authorized American Engineering Testing, Inc. (AET) to conduct a subsurface exploration program at the site, conduct soil laboratory testing, and perform a geotechnical engineering review for the project. This report presents the results of the above services, and provides our engineering recommendations based on this data.

2.0 SCOPE OF SERVICES

AET's services were performed according to our proposal to you dated December 31, 2009, which you authorized on January 4, 2010. The authorized scope consists of the following:

- Twelve (12) standard penetration test borings to a depth of 20' at the locations indicated to us by you
- Soil laboratory testing.
- Collect and screen soil samples obtained from the soil borings with a field deployable organic vapor meter equipped with a 10.6 electron Volt (eV) photoionization detector (PID) lamp.
- Geotechnical engineering analysis based on the gained data and preparation of this report.

These services are intended for geotechnical purposes.

