

DATE: July 3, 2007

Material Testing • Non-Destructive Testing
Product Evaluation • Construction Materials

Mr. Chris Long
City of Centerville
Bonestroo
2335 West Highway 36
Roseville, MN 55113

662 Cromwell Avenue
St. Paul, MN 55114
USA

Telephone : (651) 645-3601
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RECEIVED:
JUL 06 2007
CENTERVILLE, MN

PROJECT: CENTERVILLE INDUSTRIAL LOTS
CLIENT PROJECT # :
616 051 43

PROJECT NO.: 306155
PAGE: 1 of 1

FIELD OBSERVATION REPORT

Subject: Parcels B and C earthwork testing summary
Date of Observation: 9-13-06 (excavation base), 6-21-07(field density retests)
Observation By: Terry Schmidt, Senior Engineering Assistant
Time: --
Weather: --
Personnel Contacted: Burschville Construction (2006)

Remarks:

On September 13, 2006, we performed Dynamic Cone Penetrometer (DCP) testing in the excavation base soil for Parcels B and C, north of Backage Road. Our DCP test results are attached for your review. Burschville Construction excavated test holes at various locations and elevations for our testing. The base soil consisted of sandy lean clay to silty clay. The test results indicate that, in our opinion, the base soil is suitable for a design foundation bearing pressure of up to 2500 pounds per square foot (psf).

We performed field nuclear density tests on June 21, 2007, on fill soil that had failed to meet compaction requirements on July 26, 2006. The retests performed in Parcel C indicate that compaction specifications are being met at the locations tested.

REVIEWED BY: 

Steven J. Ruesink, P.E.
Senior Staff Engineer

COPY TO: 1 - City of Centerville

F:\BMC\2006CME\Construction\306155\FIELD OBSERVATION REPORT Summary9-13-06and6-21-07.doc sjr

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Stork Twin City Testing Corporation is an operating unit of Stork Materials Technology B.V., Amsterdam, The Netherlands, which is a member of the Stork group

PROJECT NO: 306128

DATE: October 26, 2006
PAGE: 2 of 2

SOIL OBSERVATION AND TESTING

DATE: October 17, 2006
TO: Mr. John Pouliot
City of Centerville
c/o Bonestroo Rosene Anderlik
2335 West Highway 36
Roseville, MN 55113

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Dynamic Cone Penetrometer Report

PROJECT#: 306155

PROJECT: CENTERVILLE INDUSTRIAL LOTS
CLIENT PROJECT # : 616-05-143

*Soil Description (see below)	
A	Sandy lean clay (CL)
B	Silty clay (SM-CL)
C	Silty sand (SM)
Design Soil Bearing Pressure:	**If designed for 2500 psf

Test #	Date	Test Elevation	Test Location	Soil Description *	Penetration Depth (Blows) Depth in Inches						Adequate For Design** Y/N	
					0-6	6-12	12-18	18-24	24-30	30-36		36-42
1	9-13-06	903'	10'N & 10'E of SW building corner "B"	A	10	24						Y
2	9-13-06	903'	10'S & 10'E of NW building corner "B"	A	25							Y
3	9-13-06	903.5'	87'SE of NW building corner "B"	A	13	24						Y
4	9-13-06	903.5'	15'W & 40'N of SE building corner "B"	A	7	10	12					Y
5	9-13-06	903'	SE building corner "C"	A	8	24						Y
6	9-13-06	903'	NE building corner "C"	A	29							Y
7	9-13-06	902'	60'S & 70'E of NW building corner "B"	A	28	41						Y
8	9-13-06	901'	30'E & 25'S of NW building corner "B"	B	6	9	20					Y
9	9-13-06	900'	10'N & 20'E of SW building corner "B"	A	8	12	20					Y

The dynamic cone penetrometer (DCP) is a field instrument used for providing an indication of relative density of the in-place soils. The DCP consists of a 15 pound hammer and steel rod tipped with a 1 1/2 inch diameter conical shaped point. The blow count information presented within this report reflects the number of 20 inch freefall impacts necessary to drive the DCP through the indicated soil depth. The adequacy of the soils for support of the bearing pressure will be dependent on the in-place properties during site construction. The information presented within this report reflects the conditions encountered by Stork Twin City Testing on the indicated date. Changes within the in-place materials including but not limited to construction disturbance, moisture content and frost penetration may reduce the indicated bearing capacity. The DCP test results are valid at the location and the elevation of the test only. No representation is made as to the adequacy of the bearing soils at location and elevation other than those tested.
Note 1: The soils are acceptable for support of the design soil bearing pressure if corrective compaction and/or other improvements are performed such that the DCP penetration reading is equal to or greater than the value noted and being acceptable for this test location.

TESTED & REVIEWED BY: Terry Schmidt
Terry Schmidt
Project Manager

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F:\BMC\2006CME\Construction\306155\DCP 1-9.doc mg

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Dynamic Cone Penetrometer Report

Project:	Centerville Ind. lots
Client:	Bonestroo
Project #:	306155
Technician/Engineer:	Terry Schmitt

*Soil Description (see below)	
A	Sandy lean clay (CL)
B	silty clay (SMCL)
C	Silty sand (SM)
Design Soil Bearing Pressure:	* IS designed for 2500 psf

Test #	Date	Test Elevation	Test Location	Soil Description	Penetration Depth (Blows) Depth in inches						Adequate For Design Y/N	
					0-6	6-12	12-18	18-24	24-30	30-36		36-42
1	9/13/06	903'	10'N + 10'E of SW bldg corner "B"	A	10	24						Y
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3		903.5'	87'SE of NW " "	A	13	24						Y
4		903.5'	15'W + 40'N of SE bldg corner	A	7	10	12					Y
5		903'	SE bldg corner "C"	A	8	24						Y
6		903'	NE bldg corner	A	29							Y
7		902'	60'S + 70'E of NW corner	A	28	41						Y
8		901'	30'E + 25'S of NW corner	B	6	9	20					Y
9		900'	10'N + 20'E of SW corner	A	8	12	20					Y

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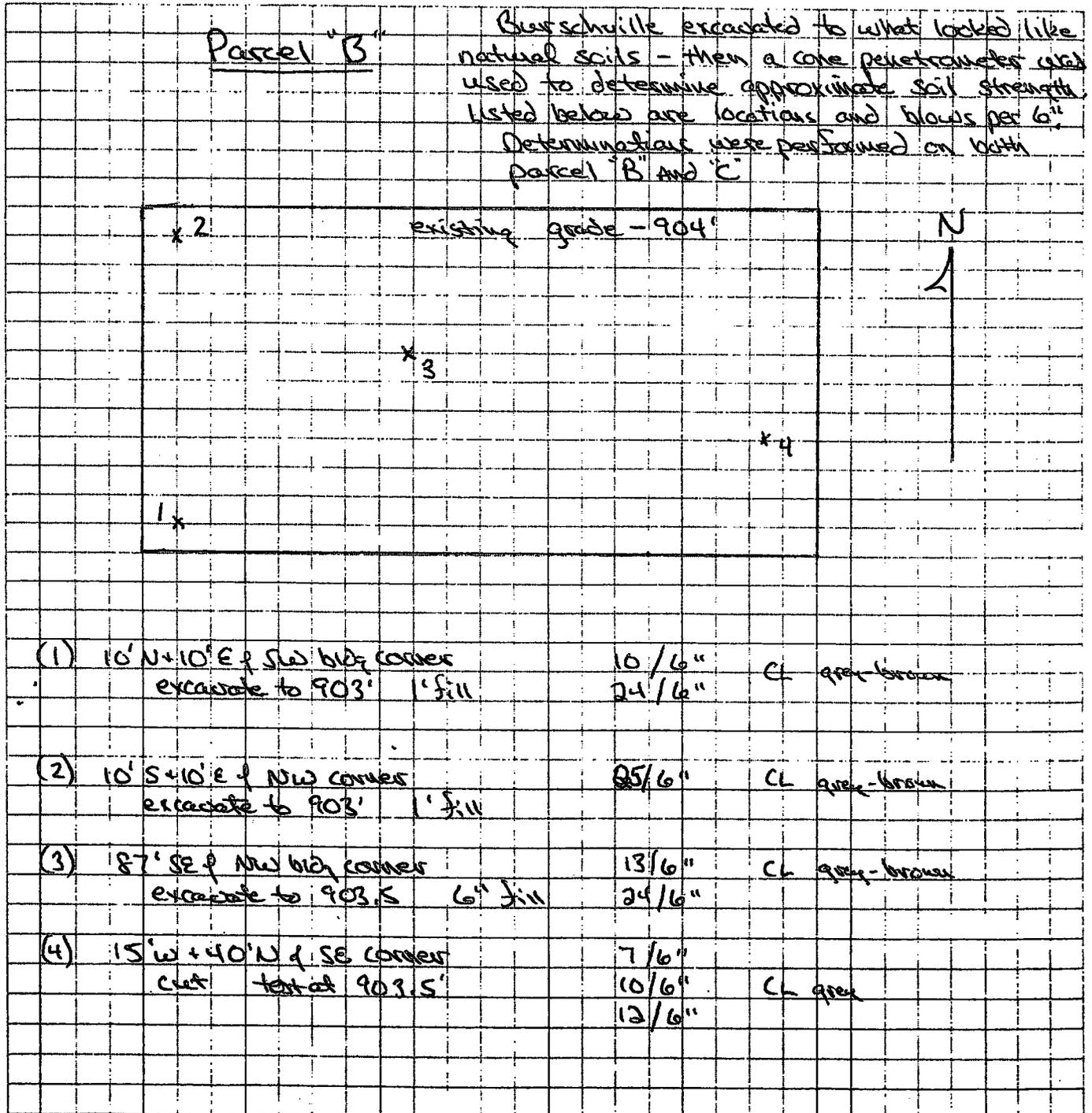
PROJECT: Centerville Industrial lots

PROJECT NO.: 306155

PROJECT CITY: Centerville

REPORTED TO: BRA

FIELD OBSERVATION DRAWING



PROJECT: Centerville Industrial lots

PROJECT NO.: 306155

PROJECT CITY: Centerville

REPORTED TO: BRA

FIELD OBSERVATION DRAWING

