



AMERICAN
ENGINEERING
TESTING, INC.

CONSULTANTS
• GEOTECHNICAL
• MATERIALS
• ENVIRONMENTAL

June 23, 2004

Yaggy Colby Associates
717 3rd Avenue SE
Rochester, MN 55904

Attn: Steve Vrieze

RE: Geotechnical Services
Stewartville Industrial Park
Stewartville, MN
AET #11-02858.1

Dear Mr. Vrieze:

Attached please find the soil boring logs for the additional work requested for above referenced project in Stewartville, Minnesota.

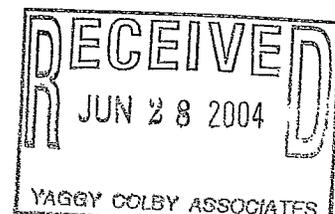
If you have any questions concerning this report or we can be of further assistance, please contact us at (507) 281-3547.

Sincerely,
American Engineering Testing, Inc.

Alec J. Hovick
Manager - Rochester

AJH/acl

Enclosures



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1937 7th Street NW, Suite 1 • Rochester, MN 55901 • 507-281-3547 • Fax 507-281-4941

Duluth - Mankato - Marshall - Rochester - Wausau - Rapid City - Pierre - Sioux Falls

AN AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY EMPLOYER



AMERICAN
ENGINEERING
TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: 11-02858.1

LOG OF BORING NO. FA-15 (p. 1 of 1)

PROJECT: Stewartville Industrial Park; Stewartville, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC. IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-200
1	Lean Clay with trace roots, dark brown (CL)	Topsoil		W	FA						
2	Lean Clay, brown (CL)	Fine Alluvium		M	FA						
3	Sandy Lean Clay with a little gravel, brown, lenses and layers of Sand (CL)	Till		M	FA						
4											
5				W	FA						
6											
7											
8	Silty Sand, brown (SM)	Coarse Alluvium		M	FA						
9											
10	Silty Sand, yellowish brown (SM)	Weathered Bedrock		M	FA						
11											
12											
13											
14											
15				M	FA						
16	Weathered Carbonate Bedrock	Stewartville Formation									
17											
18											
19	END OF BORING Obstructed at 19'										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	
19'	6" FA	6/18/04	11:30	19'		10'	NA	None
BORING COMPLETED: 6/18/04								
CC: KJ CA: JK Rig: 43R								



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SUBSURFACE BORING LOG

AET JOB NO: 11-02858.1

LOG OF BORING NO. FA-16 (p. 1 of 1)

PROJECT: Stewartville Industrial Park; Stewartville, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC. IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-200
1	Silty Clay with roots, black (CL-ML)	Topsoil		M	FA						
2				M	FA						
3				M	FA						
4	Lean Clay, brown (CL)	Fine Alluvium		W	FA						
5				W	FA						
6	Silty Sand, brown (SM)	Coarse Alluvium		W	FA						
7				W	FA						
8				W	FA						
9	END OF BORING										
10											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
10'	6" FA	6/18/04	1:35	10'		10'	NA		None
BORING COMPLETED: 6/18/04									
CC: KJ CA: JK Rig: 43R									



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TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: 11-02858.1

LOG OF BORING NO. FA-17 (p. 1 of 1)

PROJECT: Stewartville Industrial Park; Stewartville, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC. IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-200
1	Lean Clay with trace roots, black (CL)	Topsoil		M	FA						
2	Lean Clay, brown (CL)			M	FA						
3	Clayey Sand, brown (SC)	Fine Alluvium		W	FA						
4		Coarse Alluvium									
5				▽	FA						
6											
7											
8											
9											
10				W	FA						
11											
12	Lean Clay with a little gravel, gray (CL)	Till		M	FA						
13											
14											
15											
16	Sandy Lean Clay with a little gravel, brownish gray, lenses and layers of Sand (CL)			M	FA						
17											
18											
19											
20	END OF BORING										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
20'	6" FA	6/18/04	10:55	20'		20'	NA	5.5	
BORING COMPLETED: 6/18/04									
CC: KJ CA: JK Rig: 43R									



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SUBSURFACE BORING LOG

AET JOB NO: 11-02858.1

LOG OF BORING NO. FA-18 (p. 1 of 1)

PROJECT: Stewartville Industrial Park; Stewartville, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC. IN.	FIELD & LABORATORY TESTS							
							WC	DEN	LL	PL	%-200			
1	Silty Clay with trace roots, black (CL-ML)	Topsoil		M	FA									
3	Lean Clay, dark brown (CL)	Fine Alluvium		W	FA									
5	Silty Sand, brown (SM)	Coarse Alluvium		W	FA									
8	Lean Clay, tan (CL)	Fine Alluvium possibly Weathered Bedrock		W	FA									
10	END OF BORING													

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
10'	6" FA	DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		6/18/04	2:00	10'		10'	NA		None
BORING COMPLETED: 6/18/04									
CC: KJ CA: JK Rig: 43R									



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SUBSURFACE BORING LOG

AET JOB NO: 11-02858.1

LOG OF BORING NO. FA-19 (p. 1 of 1)

PROJECT: Stewartville Industrial Park; Stewartville, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC. IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-200
1	Lean Clay with trace roots, dark brown (CL)	Topsoil		W	FA						
2	Silty Clay, brown (CL-ML)	Fine Alluvium		W	FA						
3											
4	Silty Sand with gravel, tan (SM)	Weathered Bedrock		M	FA						
5	Weathered Carbonate Bedrock	Stewartville Formation		M	FA						
6											
7	END OF BORING Obstructed at 7'										

DEPTH: DRILLING METHOD		WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
7'	6" FA	6/18/04	1:40	7'		7'	NA		2.3
BORING COMPLETED: 6/18/04									
CC: KJ CA: JK Rig: 43R									



SUBSURFACE BORING LOG

AET JOB NO: 11-02858.1

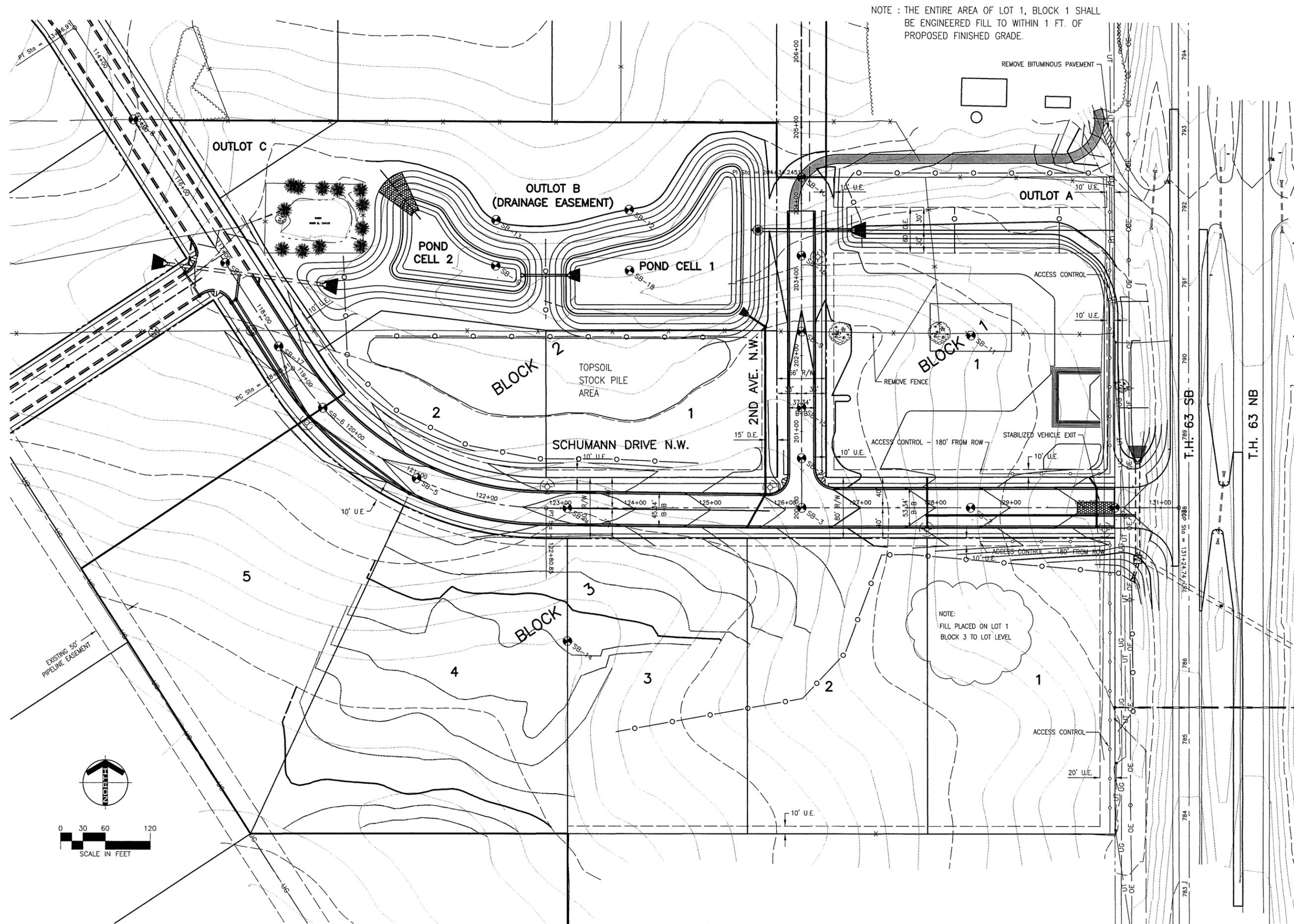
LOG OF BORING NO. FA-20 (p. 1 of 1)

PROJECT: Stewartville Industrial Park; Stewartville, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC. IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-200
1	Silty Clay with trace roots, dark brown (CL-ML)	Topsoil		M	FA						
2	Lean Clay, brown (CL)	Fine Alluvium		W	FA						
3	Sandy Lean Clay with a little gravel, brown, lenses and layers of Sand (CL)	Till		M	FA						
4				M	FA						
5				M	FA						
6				M	FA						
7				M	FA						
8											
9											
10											
11											
12											
13	Silty Sand, yellow (SM)	Weathered Bedrock		M	FA						
14											
15											
16	Weathered Carbonate Bedrock	Stewartville Formation		M	FA						
17											
18											
19											
20											
END OF BORING Obstructed at 20.5'											

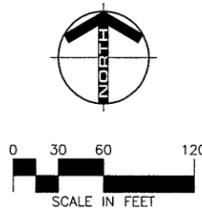
DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
20.5'	6" FA	DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		6/18/04	12:00	20.5'		20.5'	NA		None
BORING COMPLETED: 6/18/04									
CC: KJ CA: JK Rig: 43R									

Xrefs: [c:\p6855\Cad\Civil\Design\8877.dgn] [i:\7235\Cad\Civil\Design\9115.dgn] [i:\7235\Cad\Civil\Design\7287.dgn] [c:\p6855\Cad\Civil\Design\8685.dgn]



NOTE : THE ENTIRE AREA OF LOT 1, BLOCK 1 SHALL BE ENGINEERED FILL TO WITHIN 1 FT. OF PROPOSED FINISHED GRADE.

NOTE:
FILL PLACED ON LOT 1
BLOCK 3 TO LOT LEVEL



ENGINEERS • ARCHITECT
SURVEYORS • PLANNER
LANDSCAPE ARCHITECT

717 THIRD AVENUE SOUTHEA
ROCHESTER, MINNESOTA 559
507-288-6
507-288-1
FAX 507-288-1
EMAIL INFO@YAGGY.COM

I HEREBY CERTIFY THAT THIS F SPECIFICATION, OR REPORT W PREPARED BY ME OR UNDER DIRECT SUPERVISION AND THAT I A DULY LICENSED PROFESSION ENGINEER UNDER THE LAWS OF STATE OF MINNESOTA.

DONALD R. BORCHERDING
NUMBER DATE

SCHUMANN BUSINESS PARK
STEWARTVILLE, MINNESOTA
GRADING PLAN

PROJECT NUMBER	8685
COMPUTER FILE	8685CG01.dwg
DATE	07/13/04
DRAWN BY	RJL
CHECKED BY	DRB
REVISIONS	
GRADING	09/16/04
SAND & GRAVEL	10/04/04
8877	11/12/04
SURVEY	12/07/04
SURVEY	02/28/05
SURVEY	06/08/05
SHEET NUMBER	