

0 40
scale in feet



AMERICAN ENGINEERING TESTING, INC.	PROJECT SUMNER COMMUNITY LIBRARY Minneapolis, Minnesota		AET JOB NO. 01-01482
	SUBJECT Boring Locations		DATE December 30, 2002
	SCALE None	DRAWN BY SDK	CHECKED BY -
			Figure 1



SUBSURFACE BORING LOG

AET JOB NO: 01-01482

LOG OF BORING NO. 1 (p. 1 of 1)

PROJECT: Sumner Community Library; Minneapolis, MN

DEPTH IN FEET	SURFACE ELEVATION: <u>100.3</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	%-200	
1	Fill, mostly lean clay with sand, trace roots, pieces of glass, brick and plastic, dark brown, frozen to about 0.5'	FILL	7	F/M	SS	10						
2			4	M	SS	12						
3												
4												
5	Boglime, trace roots, light grayish brown, stiff (ML/OL) (may be fill)	SWAMP DEPOSIT OR FILL	14	M	SS	14	14					
6												
7	Fat clay, light brown and brown, very stiff to stiff, laminations of boglime or silt (CH) (may be fill)	FINE ALLUVIUM OR FILL	16	M	SS	16	15					
8												
9												
10												
11												
12	Fat clay, gray, a little brown mottled, stiff (CH) (may be fill)		16	M	SS	16						
13												
14												
15												
16			12	M	SS	16	35					
17	Fat clay, gray and light brown mottled, firm, lenses and laminations of silt or boglime, a lense of silty sand at about 21' (CH) (may be fill)		5	M	SS	12						
18												
19												
20												
21	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	
0-19½'	3.25" HSA	12/11/02	3:40	21.0	19.5	21.0		None
BORING COMPLETED: 12/11/02								
CC: DA CA: JM Rig: 68								



SUBSURFACE BORING LOG

AET JOB NO: 01-01482

LOG OF BORING NO. 2 (p. 1 of 1)

PROJECT: Sumner Community Library; Minneapolis, MN

DEPTH IN FEET	SURFACE ELEVATION: _____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	Qu
1	Fill, mostly lean clay, a little sand with gravel, dark brown, frozen to 1.2'	FILL		F/M	SS	12					
2											
3			7	M	SS	12					
4	Boglime, light brownish gray, soft (OL/ML)	SWAMP DEPOSIT									
5			3	M	SS	12	39				
6											
7			3	M	SS	16					
8	Lean clay, gray and brown mottled, very stiff, laminations of silt (CL)										
9											
10											
11	Fat clay, brown and gray mottled, firm, laminations of silt (CH)	FINE ALLUVIUM		M	TW	24	29	96		2789	
12											
13	Fat clay, gray and brown mottled, stiff, lenses of silt and lean clay (CH)										
14			6	M	SS	16	32				
15											
16	Fat clay, gray and brown mottled, stiff, lenses of silt and lean clay (CH)										
17			9	M	SS	16					
18											
19	Fat clay, gray, firm (CH)	LACUSTRINE DEPOSIT									
20			5	M	SS	16	47				
21	END OF BORING										

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
0-19½'	3.25" HSA	DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
		12/11/02	2:45	21.0	19.5	21.0		None	
BORING COMPLETED: 12/11/02									
CC: DA CA: JM Rig: 68									



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SUBSURFACE BORING LOG

AET JOB NO: 01-01482

LOG OF BORING NO. 3 (p. 1 of 1)

PROJECT: Sumner Community Library; Minneapolis, MN

DEPTH IN FEET	SURFACE ELEVATION: <u>100.5</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	Qu	
1	Fill, mostly clayey sand, dark brown, frozen to about 1.0'	FILL	18	F/M	SS	14						
2	Fill, mixture of lean clay and clayey sand, dark brown, a little gray		6	M	SS	12						
3												
4	Lean clay, light brown and brown mottled, soft to firm, lenses and laminations of silt or boglime (CL)	FINE ALLUVIUM	4	M	SS	12						
5												
6												
7												
8												
8	Fat clay, light grayish brown, firm, lenses of silt (CH)	FINE ALLUVIUM		M	TW	18	27	99			1959	
9												
10												
11	Fat clay, gray and brown mottled, stiff, lenses of silt (CH)	FINE ALLUVIUM OR LACUSTRINE DEPOSIT	6	M	SS	16						
12												
13	Fat clay, gray and brown mottled, stiff, lenses of silt (CH)	FINE ALLUVIUM OR LACUSTRINE DEPOSIT	7	M	SS	16						
14												
15												
16	Fat clay, gray, firm, a lense of sand at about 20.8' (CH)	FINE ALLUVIUM OR LACUSTRINE DEPOSIT	9	M	SS	16						
17												
18	Fat clay, gray, firm, a lense of sand at about 20.8' (CH)	FINE ALLUVIUM OR LACUSTRINE DEPOSIT										
19												
20	Fat clay, gray, firm, a lense of sand at about 20.8' (CH)	FINE ALLUVIUM OR LACUSTRINE DEPOSIT	5	M	SS	16	72					
21												
21	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
0-19½'	3.25" HSA	12/11/02	1:50	21.0	19.5	20.8			None
BORING COMPLETED: 12/11/02									
CC: DA CA: JM Rig: 68									



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SUBSURFACE BORING LOG

AET JOB NO: **01-01482**

LOG OF BORING NO. **4 (p. 1 of 1)**

PROJECT: **Sumner Community Library; Minneapolis, MN**

DEPTH IN FEET	SURFACE ELEVATION: <u>99.8</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS									
							WC	DEN	LL	PL	%-200					
1	3" Bituminous pavement 6" Base, mostly silty sand, a little gravel, brown	FILL		F	SU											
2	Fill, mixture of silty sand and lean clay, a little gravel, pieces of concrete, brick and wood, dark brown and brown			F/M	SS	14										
3		Lean clay, gray and brown mottled, firm to stiff to firm, laminations of silt (CL)	11	M	SS	12										
4	FINE ALLUVIUM		5	M	SS	14	31									
5		Fat clay, brown mottled, firm, laminations of silt (CH)	10	M	SS	16										
6	LACUSTRINE DEPOSIT		6	M	SS	14										
7		Fat clay, gray, a little brown mottled, firm, laminations of silt (CH)	7	M	SS	16	33									
8	Fat clay, gray, soft (CH)		7	M	SS	16										
9		END OF BORING	2	M	SS	16	70									
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																

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	
0-19½'	3.25" HSA	12/11/02	12:30	21.0	19.5	20.8		None	
BORING COMPLETED: 12/11/02									
CC: DA CA: JM Rig: 68									



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SUBSURFACE BORING LOG

AET JOB NO: 01-01482

LOG OF BORING NO. 5 (p. 1 of 1)

PROJECT: Sumner Community Library; Minneapolis, MN

DEPTH IN FEET	SURFACE ELEVATION: <u>96.6</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS																				
							WC	DEN	LL	PL	%-200																
1	3" Bituminous pavement	FILL			SU																						
	6" Base, mostly silty sand, a little gravel, brown													F	SS	14											
2	Fill, mixture of organic clay, lean clay, fat clay and silty sand, black and dark brown, frozen to about 1.5'													7	M	SS	12										
3																									M	SS	12
4																											
5	Bogline, light grayish brown, firm (OL/ML)				SWAMP DEPOSIT									5	M	SS	12	48									
6	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	
0-4½'	3.25" HSA	12/11/02	10:30	6.0	4.5	6.0		None	
BORING COMPLETED: 12/11/02									
CC: DA CA: JM Rig: 68									



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SUBSURFACE BORING LOG

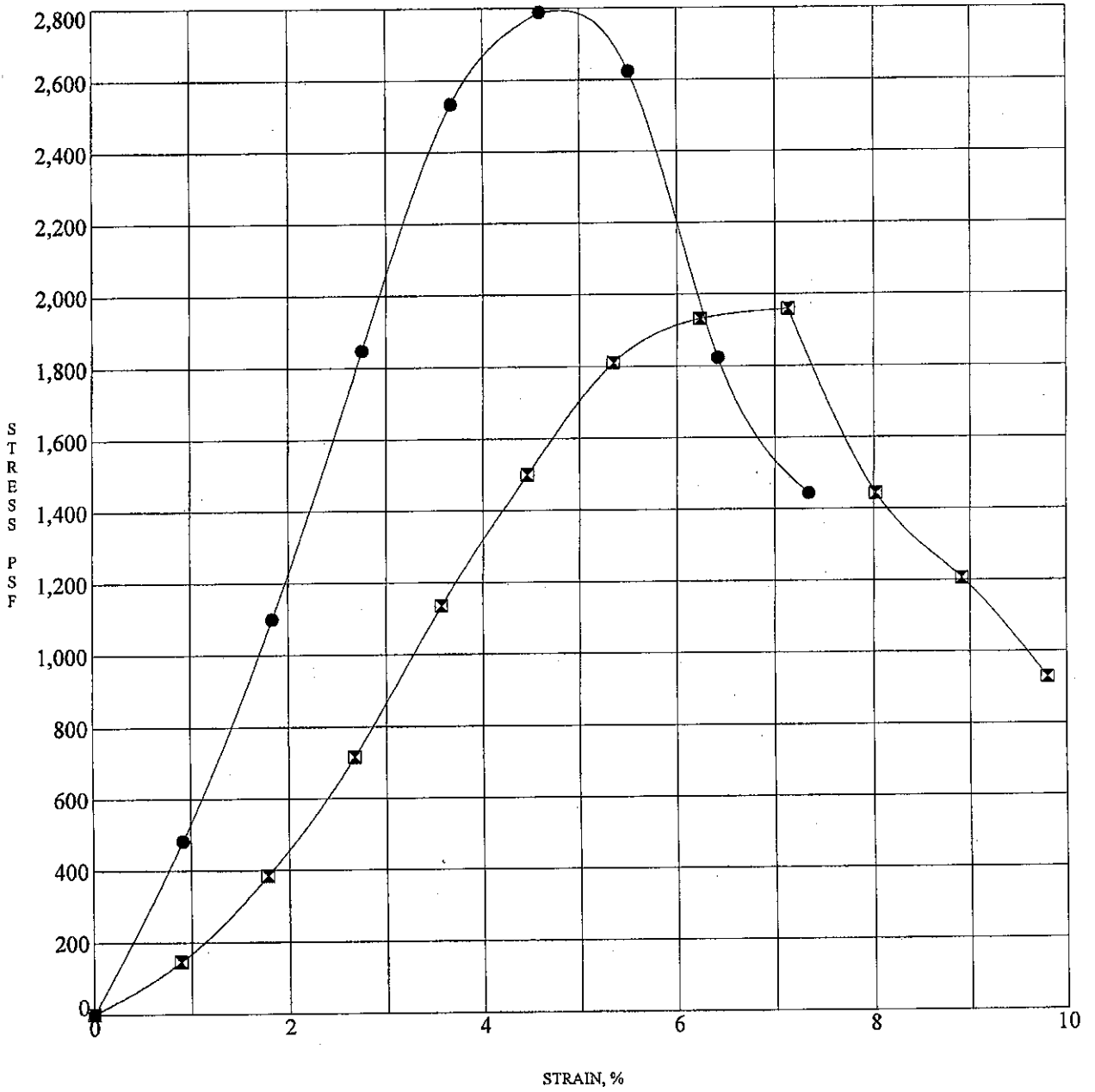
AET JOB NO: 01-01482

LOG OF BORING NO. 6 (p. 1 of 1)

PROJECT: Sumner Community Library; Minneapolis, MN

DEPTH IN FEET	SURFACE ELEVATION: <u>95.4</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-200
1	3" Bituminous pavement 6" Base, mostly silty sand, a little gravel, brown	FILL	7	M	SU	14					
2	Fill, mostly lean clay, a little silty sand, black and brown, frozen to 1.2'										
3	Fill, mostly boglime, light grayish brown, a little dark brown										
4	Fill, mixture of lean clay and organic clay, a little boglime, dark brown and black										
5											
6											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS						NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG	
0-4½'	3.25" HSA	DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL		WATER LEVEL
		12/11/02	9:50	6.0	4.5	6.0			None
BORING COMPLETED: 12/11/02									
CC: DA CA: JM Rig: 68									



Specimen Identification	Classification	DD	MC%
● 2 10.5		96	29
□ 3 8.0		99	27

PROJECT Sumner Community Library; Minneapolis, MN

JOB NO. 01-01482
DATE 12/11/02



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UNCONFINED COMPRESSION TEST