SOIL AND MATERIAL CONSULTANTS, INC. — BORING LOG 1 (Sheet 1 of 4)

File No. 19720

Client: Baxter & Woodman, Inc. | Sheet 1 of 4
Project: Thorn Creek Bridge Replacement Phase I | Date 8/18/09
Location: Park Forest, IL | Drilled By AC
Comments: Structure #099-6750
Equipment: [X] CME 45B [ ] H.A. [ ] Other | Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
697.4'	(a & b) see page 4 of 4	0									
695.9'	Brown fine sand,damp,loose - Fill		1			3			7.2		
	Dark gray-brown silt,some clay, trace sand & gravel,damp,very loose to loose - Fill		2	SS	13"	2, 2	4		16.9		
		5	3	SS	6"	2, 3, 3	6		21.5		
691.4'	Gray-brown silt,some clay,trace sand & roots,very damp,very loose		4	SS	18"	2, 1, 2	3		20.4		
689.4'	Gray clay,some silt,trace sand & gravel,damp,very tough to hard	10	5	SS	18"	3, 4, 4	8	3.25	15.4	112.0	3.3
			6	SS	18"	3, 3, 5	8	3.0	16.2	114.4	2.2
		15	7	SS	18"	5, 9, 12	21	4.5+	20.2	111.5	6.9
681.9'	Gray silt,some clay,trace sand & gravel,damp,medium dense		8	SS	13"	4, 6, 7	13		12.8		
679.4'	Gray clay,some silt,trace sand & gravel,damp,very tough	20	9	SS	18"	4, 6, 7	13	2.5	16.4	115.4	2.7

Water Level — depth, ft. / elev., ft.
- while drilling: 7.5
- after drilling: 10.0
- 24 hrs. after drilling: 9.5

S - sample T - type; J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
Qu - unconfined compressive strength, tons / sq. ft.

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SOIL AND MATERIAL CONSULTANTS, INC. — BORING LOG 1 (Sheet 2 of 4)

File No. 19720

Client: Baxter & Woodman, Inc. | Sheet 2 of 4
Project: Thorn Creek Bridge Replacement Phase I | Date 8/18/09
Location: Park Forest, IL | Drilled By AC
Comments: Structure #099-6750
Equipment: [X] CME 45B [ ] H.A. [ ] Other | Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay,some silt,trace sand & gravel,damp,very tough	20	10	SS	18"	5, 7, 8	15	3.25	13.3	117.4	3.3
	(sand seam between 24.0'-24.5')	25	11	SS	18"	5, 8, 6	14	2.0	21.5	107.8	2.3
			12	SS	18"	4, 5, 8	13	3.0	16.1	124.9	2.3
669.4'	Gray clay,some silt,trace sand & gravel,damp,tough to very tough	30	13	SS	18"	4, 5, 7	12	2.5	16.1	133.4	1.6
		35	14	SS	18"	5, 6, 8	14	3.25	22.7	104.7	2.4
659.9'	Gray clay,some silt,trace sand & gravel,damp,tough	40	15	SS	18"	3, 4, 5	9	[illegible]	12.3	133.4	1.8

Water Level — depth, ft. / elev., ft.
- while drilling: 7.5
- after drilling: 10.0
- 24 hrs. after drilling: 9.5

S - sample T - type; J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
Qu - unconfined compressive strength, tons / sq. ft.

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SOIL AND MATERIAL CONSULTANTS, INC. — BORING LOG 1 (Sheet 3 of 4)

File No. 19720

Client: Baxter & Woodman, Inc. | Sheet 3 of 4
Project: Thorn Creek Bridge Replacement Phase I | Date 8/18/09
Location: Park Forest, IL | Drilled By AC
Comments: Structure #099-6750
Equipment: [X] CME 45B [ ] H.A. [ ] Other | Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay,some silt,trace sand & gravel,damp,tough	40									
652.9'			16			4, 6			13.8	128.1	1.1
	Gray medium-coarse sand,some fine sand,very damp,medium dense	45	17	SS	15"	14	20		10.2		
648.4'	Gray fine sand,trace medium-coarse sand,very damp-saturated, medium dense	50	18	SS	16"	14, 7, 6	13		13.1		
		55	19	SS	18"	5, 5, 7	12		16.3		
638.4'	Brown fine sand,some gravel,trace med.-coarse sand,very damp,medium dense										
637.4'		60	20	SS	18"	7, 13, 13	26		10.3		

Water Level — depth, ft. / elev., ft.
- while drilling: 7.5
- after drilling: 10.0
- 24 hrs. after drilling: 9.5

S - sample T - type; J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
Pen. - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
Qu - unconfined compressive strength, tons./ sq. ft.

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SOIL AND MATERIAL CONSULTANTS, INC. — BORING LOG 1 (Sheet 4 of 4)

File No. 19720

Client: Baxter & Woodman, Inc. | Sheet 4 of 4
Project: Thorn Creek Bridge Replacement Phase I | Date 8/18/09
Location: Park Forest, IL | Drilled By AC
Comments: Structure #099-6750
Equipment: [X] CME 45B [ ] H.A. [ ] Other | Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray fine sand,some gravel,trace medium-coarse sand,very damp, dense	60									
		65	21	SS	16"	17, 22, 27	49		13.3		
628.9'	Weathered limestone bedrock, very dense	70	22	SS	10"	59, 100+	100+		11.2		
622.4'		75	23	SS	3"	100+	100+		8.0		
	End of Boring										
	(a) Bituminous concrete - 3.5"										
	(b) Limestone,damp - 8.0"	80									

Water Level — depth, ft. / elev., ft.
- while drilling: 7.5
- after drilling: 10.0
- 24 hrs. after drilling: 9.5

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B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
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BAXTER & WOODMAN Consulting Engineers

USER NAME =	DESIGNED -	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN -	REVISED
PLOT DATE 10-12-12	CHECKED -	REVISED

VILLAGE OF PARK FOREST, ILLINOIS
THORN CREEK DRIVE BRIDGE OVER THORN CREEK

SOIL BORINGS
STRUCTURE NO. 099-6753
SHEET NO. 8 OF 9 SHEETS

MUN ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1045	08-00093-00-BR	WILL	41	25
		CONTRACT NO. 63755		
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT		BRM-9003(103)	