STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2758	*	LAKE	40	40
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. -30
30 - SHEETS
CONTRACT 83790
* 02-00025-00-BR

SB-2

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1446 • FAX(847) 398-2376

SOIL BORING LOG

PAGE 1 of 2
DATE April 28, 2004
LOGGED BY TOB
OBA JOB No. 03356

ROUTE FAP Rt. 330
DESCRIPTION Moffett Road Bridge Over Un-Named Ravine
SECTION 128 R-2
LOCATION Lake Bluff, Illinois
COUNTY Lake
DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE D-120 Safety

STRUCT. NO. 049-6801
Station 137+50.47 to 183+60.80
BORING NO. SB-2
Station: 138+76
Offset: 6' Right
Ground Surface Elev. 664.3

Surface Water Elev. 632.2
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 638.3
Upon Completion 601.3
After ___ Hrs. ___

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
5.5" ASPHALT				
CRUSHED STONE & CONCRETE- very dense (FILL)		21		
		50/5"		
			NP	5
		44/5"		
	-5		NP	6
		50/5"		
			NP	7
		50/4"		
CRUSHED STONE SCREENINGS- very dense (FILL)	-10		NP	10
CLAY-brown & gray- hard (CL)		8		113
		4		
		2	5.0B	15
CLAY-gray- very stiff to hard (CL)		7		113
		7		
	-15	10	2.7B	15
		3		115
		6		
		7	2.3B	16
		5		117
		8		
	-20	16	3.4B	14

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray- very stiff to hard (CL)		8		115
		10		
		16	2.75B	16
		12		117
		30	7.75B	14
SILT-gray-very dense (A-4)	-25	32	NP	17
		14		
		13		
SAND-gray-medium dense (A-1-b)		14	NP	13
		9		
		10	NP	16
	-30	13	3.75B	14
CLAY-gray- very stiff to hard (A-6)		10		116
		17		
	-35	18	2.5B	15
		9		114
		13		
	-40	16	2.2B	16

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

SB-2

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Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 638.3
Upon Completion 601.3
After ___ Hrs. ___

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray- very stiff to hard (A-6)		6		113
		8		
	-45	13	2.7B	17
Drillers Observation: Blow-in sands @ -50.0'		10		113
		15		
	-50	17	4.6B	18
		10		110
		12		
	-55	16	4.5B	17
SILTY LOAM to SILT- gray-very dense (A-4)		65/5"		
	-60		NP	10

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM to SILT- gray-very dense (A-4)		75/5"		
	-65		NP	14
End of Boring @ -65.0' Hollow Stem Augers D-120 Safety Hammer				
	-70			
	-75			
	-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

TY·LIN INTERNATIONAL

DESIGNED	DE
CHECKED	SP
DRAWN	DE
CHECKED	PF

DATE: 02-23-2005

BORING LOGS

MOFFETT ROAD OVER
DRAINAGE RAVINE
FAU 2758
LAKE COUNTY
S.N. 049-6803