STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	330
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 17
21 - SHEETS

* 125X-HB-(1&2) R-1 CONTRACT # 60826

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2808

SOIL BORING LOG

PAGE 1 of 2
DATE 8/16-17/2004
LOGGED BY TOB
GSI JOB No. 0314

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNSHP Gurnee LOCATION TWP 44 N, R 6E on the south boundary of Sec 28
COUNTY Lake DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W036
Station
BORING NO. 0-1
Station 537+91.5 US 41 Centerline
Offset 48.75' Right
Ground Surface Elev. 693.1

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black (A-7)	691.6		21		109
CLAY-brown & gray-stiff to very stiff (A-6) Fill			6 / 7	3.0B	20
			4		104
		-5	5 / 6	1.3B	22
			4		108
			5 / 9	3.1B	21
			4		109
		-10	3 / 2	1.8B	20
			3		
SANDY LOAM-dark brown-loose (A-2-6) Apparent Fill	681.1		2 / 5	NP	19
CLAY-brown & gray-very stiff to hard (A-6)	679.8		7		118
		-15	5 / 7	3.4B	16
			8		124
			14 / 19	5.7B	13
CLAY-gray-stiff to very stiff (A-6)	674.1		12		105
		-20	9 / 8	2.2B	22
CLAY-gray-stiff to very stiff (A-6)			3		116
			5 / 6	2.1B	17
			4		99
		-25	7 / 7	1.6B	21
SANDY LOAM-gray-medium dense	667.1		9		
			9 / 13	NP	16
CLAY-gray-very stiff to hard (A-6)	664.6		6		
		-30	5 / 8	2.5P	15
			10		123
		-35	13 / 13	4.5P	14
SAND & GRAVEL-gray-medium dense (A-1)	655.1		10		
		-40	8 / 8	NP	12

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
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 (%)

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COUNTY Lake DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE D-120 Safety Hammer

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Station
BORING NO. 0-1
Station 537+91.5 US 41 Centerline
Offset 48.75' Right
Ground Surface Elev. 693.1

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-gray-medium dense (A-1)	649.1		6		122
		-45	8 / 7	2.1B	18
CLAY-gray-very stiff (A-6)			7		122
		-50	9 / 12	3.5P	14
			7		119
		-55	7 / 10	2.75P	16
	635.1		22		
SAND-gray-dense (A-3)		-60	14 / 20	NP	20
SAND-gray-dense (A-3)	631.1				
SAND & GRAVEL-gray-medium dense (A-1)			15		
		-65	11 / 10	NP	9
			15		119
		-70	13 / 14	3.0P	15
CLAY-gray-very stiff (A-6)					
			21		
SILTY LOAM-gray-medium dense (A-2-4)	618.1	-75	11 / 12	NP	11
End of Boring @ -75.0'					
Hollow Stem Augers to -10.0'					
Rotary Drilling to Completion					
D-120 Safety Hammer					
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
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TY·LIN INTERNATIONAL

DESIGNED	SNB
CHECKED	AD
DRAWN	SNB
CHECKED	AD

BORING LOG 0-1

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W036