STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	328
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 15
21 - SHEETS

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambrell Court, Suite 204
Naperville, Illinois 60565
(630) 355-2956

SOIL BORING LOG

PAGE 1 of 3
DATE 6/23-7/30/2004
LOGGED BY AD
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 049-0209
Station
BORING NO. B-7
Station 537+19.4 US 41 Centerline
Offset 37.6' Right
Ground Surface Elev. 697.2

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 (%)
CLAYEY TOPSOIL-black (A-7)			6		
			7 11	1.75P	20
	693.2		7		101
CLAY-brown & gray-medium stiff to very stiff (A-6)			10 10	1.4B	25
			4		113
			7 8	2.3B	18
			2		
			3 4	2.0P	16
Drillers Observation: Unknown obstruction @ -11.0'.			- - -		NR
			10		102
			22 22	0.5P	24
			18 30 33		21
	679.2				
CLAY-gray-stiff to very stiff (A-6)			11		114
			17 22	3.7B	18
CLAY-gray-stiff to very stiff (A-6)			8		110
			11 17	3.4B	20
			9		104
			11 16	2.3B	23
			8		101
			10 11	1.8B	25
			9		103
			8 10	1.5B	24
	663.2		18		
SAND-gray-dense (A-3)			24 20	NP	18
	659.7				
CLAY-gray-very stiff (A-6)			8		111
	657.2		14 19	2.5B	19

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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Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-gray-medium dense (A-1)			6		
			11 14	NP	23
			11		
			15 17	NP	12
	644.7				
CLAY-gray-medium stiff to very stiff (A-6)			9		123
			10 12	2.8B	14
			11		117
			8 9	2.8P	16
CLAY-gray-medium stiff to very stiff (A-6)	635.6				
Fine SAND-gray-dense (A-3)			15 20 21		
			21 25 21	NP	15
	625.2				
SAND & GRAVEL-gray-dense (A-1)			12 20 22	NP	7
	622.2				
CLAY-gray-hard (A-6)			7		X
			10 14	1.9B	13

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 B-7
(1 OF 2)

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