STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	309
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 11
15 - SHEETS

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

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

SOIL BORING LOG

PAGE 1 of 1
DATE 10/5/2004
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" Hollow Stem Auger HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W035
Station
BORING NO. N-4
Station 306+34.9 Ramp C Baseline
Offset 7.25' Right
Ground Surface Elev. 683.0

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black (A-7) 682.0				
		7		
CLAY-brown & gray-hard (A-6) Fill		8 / 6	4.5+P	17
		5		116
	-5	7 / 8	5.5B	17
677.0				
		8		
SANDY LOAM-brown-dense (A-2-6) Apparent Fill		18 / 17	NP	11
674.0		3		119
	-10	8 / 9	3.4B	16
		4		118
CLAY-gray-very stiff to hard (A-6)		6 / 7	2.5B	16
		7		112
	-15	9 / 11	4.25B	19
		3		108
		5 / 8	3.4B	21
		4		130
	-20	7 / 7	6.9B	11
CLAY-gray-very stiff to hard (A-6) 653.0	-30	8 / 11	3.2B	16
End of Boring @ -30.0' Hollow Stem Augers D-120 Safety Hammer				
		3		118
		4 / 8	2.7B	17
		4		129
	-25	8 / 10	4.9B	11
		5		120
		8 / 10	3.5B	15
		9		119
	-30	8 / 11	3.2B	16

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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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" Hollow Stem Auger HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W035
Station
BORING NO. N-5
Station 307+10.0 Ramp C Baseline
Offset 7.25' Right
Ground Surface Elev. 687.1

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAYEY TOPSOIL-black (A-7)				
Drillers Observation: Auger refusal @ -2.0'. Unknown obstruction. 685.1				
End of Boring @ -2.0' Hollow Stem Augers D-120 Safety Hammer				
Boring Offset 2 times and hit Obstruction @-2.0'	-5			
	-10			
	-15			
	-20			
	-25			
	-30			
	-35			
	-40			

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 (%)

TY·LIN INTERNATIONAL

DESIGNED	MAF
CHECKED	AD
DRAWN	MAF
CHECKED	AD

BORING LOGS N-4 & N-5

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W035