

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROUTE NO. <b>346</b>	SECTION •	COUNTY <b>LAKE</b>	TOTAL SHEETS <b>469</b>	SHEET NO. <b>248</b>
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. - 13  
15 SHEETS

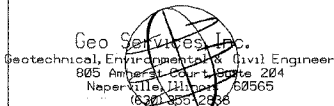
• 125X-HB-(1&2) R-1      CONTRACT # 60826

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DATE 10/6/2004

LOGGED BY RJ

GSI JOB No. 0314



**Geo Services, Inc.**  
Geotechnical, Environmental & Civil Engineering  
805 Amherst Court, Suite 204  
Naperville, IL 60563  
(630) 395-1936

**SOIL BORING LOG**

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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' HSA/Rotary      HAMMER TYPE CME-75 Auto Hammer

STRUCT. NO. SN 049-W031

Station \_\_\_\_\_

BORING NO. J-4

Station 107+90.7 Ramp A Baseline

Offset 7.25' Right

Ground Surface Elev. 699.6

SOIL DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOIST (%)	SURFACE WATER ELEV. (ft)	STREAM BED ELEV. (ft)	GROUNDWATER ELEVATION (ft)	FIRST ENCOUNTER		UPON COMPLETION		
												Qu	ST	Qu	ST	n/a
TOPSOIL-dark brown (A-7)	8				3			108								
CLAY LOAM-brown & gray-hard (A-6) Fill	10				4			21								
	11	4.5P	9		4	1.4B										
	12				3			117								
CLAY-gray-stiff to hard (A-6)	14				4											
	-5 16	4.5P	9		-25 5	2.1B	16									
	13				4			102								
CLAY-brown & gray-hard (A-6)	12				5											
	16	3.4B	14		8	1.8B	24									
	13				4			104								
	-10 16	7.1B	16		-30 8	2.5B	23									
CLAY-gray-stiff to hard (A-6)	8															
	10															
	15	4.4B	18													
	4				10			126								
CLAY-gray-stiff to hard (A-6)	8				9											
	-15 16	4.8B	13		-35 10	2.7B	13									
	5															
	7															
	9	3.2B	13													
CLAY-gray-stiff to hard (A-6)	3				4			117								
	4				5											
	-20 6	1.8B	16		-40 7	2.0P	13									


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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												Qu	ST	Qu	ST	n/a
SILTY LOAM-gray-very dense (A-4)																
	5				5			119								
CLAY-gray-hard (A-6)	7				8			116								
	-45 8	2.3P	16		-65 20	4.4B	17									
CLAY-gray-stiff to hard (A-6)																
CLAY-brown & gray-hard (A-6)	8				8			126								
	9				9											
	-50 12	3.5B	13		-70											
CLAY-gray-stiff to hard (A-6)																
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SILTY LOAM-gray-very dense (A-4)																

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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 (%)

**TYLIN INTERNATIONAL**

DESIGNED	-	MAF
CHECKED	-	AD
DRAWN	-	MAF
CHECKED	-	AD

**BORING LOG J-4**

FAP 346 (U.S. ROUTE 41 - SKOKIE  
HIGHWAY) OVER ILLINOIS ROUTE 132  
SECTION 125X-HB-(1&2)R-1  
LAKE COUNTY  
S.N. 049-W031