ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	60
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 32
35 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Road, Suite 204
Naperville, Illinois 60565
(630) 355-2288

SOIL BORING LOG

PAGE 2 of 3
DATE August 12, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic
STRUCT. NO. E 016-0465/P 016-2847
Station
BORING NO. BR-2
Northing 1810438.0
Easting 1115287.4
Ground Surface Elev. 678.0

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-very stiff to hard (A-6)		6		122
		10		
	-45	12	3.2B	15
629.5				
SILTY LOAM-gray-dense (A-4)		14		
		15		
	-50	20	NP	15
624.5				
CLAY-gray-very stiff (A-6)		10		
		14		
	-55	17	3.8B	12
	-60	9		
		14		
		22	2.5P	13
CLAY-gray-very stiff (A-6)				
614.5				
SAND-gray-dense to very dense (A-2)		15		
		22		
	-65	20	NP	12
	-70	42	NP	19
		32		
		42		
	-75	28	NP	20
	-80			

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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SOIL BORING LOG

PAGE 3 of 3
DATE August 12, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic
STRUCT. NO. E 016-0465/P 016-2847
Station
BORING NO. BR-2
Northing 1810438.0
Easting 1115287.4
Ground Surface Elev. 678.0

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-dense to very dense (A-2)		15		
		16		
	-85	19	NP	20
	-90	13		
		17		
	-95	17	NP	27
583.0		11		
		15		
	-100	15	NP	20
End Of Boring @ -95.0'				
Hollow Stem Augers to -8.5'				
Rotary Drilling to Completion				
CME-75 Automatic Hammer				

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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SOIL BORING LOG

PAGE 1 of 2
DATE Sept. 29, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Bridge Foundation
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic
STRUCT. NO. E 016-0465/P 016-2847
Station
BORING NO. BR-3 & BR-3A
Northing 1810452.1
Easting 1115373.2
Ground Surface Elev. 694.2

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black (A-7) 693.2		5		
		5		
		7	4.0P	20
CLAY-brown & gray-very stiff (A-6) Fill		5		
		6		
	-5	8	2.5P	23
		5		101
686.7		5		
		6	2.5B	25
CLAY-gray-stiff to very stiff (A-6) Fill		4		99
		4		
	-10	7	1.6B	26
		3		109
		4		
681.7		5	2.1B	20
CLAY LOAM-gray-stiff to very stiff (A-6) Fill		3		
		2		
	-15	5	2.5P	19
		1		
		2		
676.7		4	1.0P	24
Driller's Observation: CLAY LOAM-brown Fill		2		
		2		
	-20	4		NR
Driller's Observation: Buried Topsoil-black		2		
		6		
671.7		7		NR
CLAY-brown & gray-very stiff (A-6) Wet		4		
		7		
	-25	10	2.2B	25
668.2				
		7		122
CLAY-gray-very stiff to hard (A-6)		12		
		16	5.7B	14
		2		121
		8		
	-30	16	7.1B	14
		8		118
		8		
	-35	8	2.5B	16
		6		120
		11		
	-40	19	5.7B	15

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 (%)

Note: Soil Boring BR-3A is an offset continuation of BR-3, see log.

DESIGNED	-
CHECKED	-
DRAWN	GM
CHECKED	JJI

Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS BR-2 & BR-3

IL 7 (SOUTHWEST HIGHWAY) OVER
US 45 (LA GRANGE ROAD)
F.A.U. ROUTE 3578 SECTION 1327B
COOK COUNTY
STA. 1516+85.79
STRUCTURE NUMBER 016-2847