CONTRACT NO. 62712

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	84
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 21
22 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Arbor Lake Drive, Suite 204
Naperville, Illinois 60565
(630) 355-2868

SOIL BORING LOG

PAGE 1 of 1
DATE December 4, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland Park LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.5" Hollow Stem Augers HAMMER TYPE CME-75 Automatic

STRUCT. NO. 016-W970
Station XX
BORING NO. R-19
Station 1809958.3, Sta. 1511+60.02
Offset 1114962.8, Offset 6.52'LT.
Ground Surface Elev. 684.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 661.5
Upon Completion Dry
After ____ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" CRUSHED STONE 683.5			
	2		100
	3		
	4	1.8B	25
CLAY-brown & gray- stiff to very stiff (A-6) Fill			
	1		
	2		
-5	3	2.0P	18
	2		98
	3		
	4	1.8B	23
	2		
	2		
-10	2	2.0P	26
	ST	3.5P	17
670.5	1		72
	2		
-15	2	1.0B	43
668.5			
ORGANIC CLAY-dark brown to black (A-8)			
	ST	0.5P	67
-20	ST	0.5P	70

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC CLAY with fiberous peat -dark brown to black (A-8)			
Vane Shear @ -22.0' Su (Peak) = 975psf			
	1		
		975 (psf)	
661.5	VS		153
CLAYEY SAND & GRAVEL- gray (A-2-6)			
-25	ST	NP	14
	2		103
657.5	5		
CLAY-gray-very stiff (A-6)	6	2.7B	24
	3		111
	6		
-30	8	3.1B	18
	3		105
	5		
-35	7	3.1B	19
	9		112
End Of Boring @ -40.0' Hollow Stem Augers CME-75 Automatic Hammer 644.5	11		
-40	10	3.4B	15

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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 (%)
NR-No Recovery

Geo Services, Inc.
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(630) 355-2868

SOIL BORING LOG

PAGE 1 of 2
DATE August 10, 2004
LOGGED BY RJ
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 Safety

STRUCT. NO. E 016-0465/P 016-2847
Station
BORING NO. BR-1 & BR-1A
Northing 1810236.3, Sta. 1515+46.73
Easting 1115233, Offset 20.12' RT.
Ground Surface Elev. 696.2

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4" ASPHALT, 6" CRUSHED STONE 695.2			
	6		
	3		
	4	1.5P	25
CLAY-brown & gray- medium stiff to very stiff- (A-6) Fill, Wet			
	3		98
	3		
-5	4	1.1B	27
	1		
	2		
	5	2.25P	24
	3		100
	2		
-10	2	2.0P	25
	1		95
	1		
	2	.9B	28
	1		
	2		
-15	2	1.5P	29
679.7	3		
	3		
	4	1.7B	32
ORGANIC CLAY-black (A-7) Wet			
	1		
	2		
-20	5	1.0P	35

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ORGANIC CLAY-black (A-7) Wet			
	2		
	3		
-25	4	1.8B	39
	2		
	3		
-25	4	1.8B	29
670.2			
	4		112
	6		
	9	3.0B	19
	4		113
	7		
-30	10	3.4B	18
CLAY-gray-very stiff (A-6)			
	6		110
	8		
-35	11	3.2B	20
	7		110
	10		
-40	12	2.5B	20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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 (%)
NR-No Recovery

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SOIL BORING LOG

PAGE 2 of 2
DATE August 10, 2004
LOGGED BY RJ
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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 Safety

STRUCT. NO. E 016-0465/P 016-2847
Station
BORING NO. BR-1 & BR-1A
Northing 1810236.3, Sta. 1515+46.73
Easting 1115233, Offset 20.12' RT.
Ground Surface Elev. 696.2

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-very stiff (A-6)			
652.7			
	6		
	13		
-45	14	NP	13
SANDY LOAM-gray- medium dense (A-2-6)			
647.2	7		128
	9		
-50	11	3.7B	12
CLAY-gray-very stiff (A-6)			
642.2	7		
End Of Boring @ -54.0' Apparent obstruction @ -54.0' Casing unable to penetrate @ -54.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion D-120 Safety Hammer	50/3"	NP	20
-55			
Offset Boring to W and S to BR-1A Blind Drilled to 53.5' and Encountered Obstruction-Terminated			
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
-65			
-70			
-75			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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NR-No Recovery

Note: Soil Boring BR-1A is an offset continuation of BR-1, see log.

DESIGNED	-
CHECKED	-
DRAWN	MD
CHECKED	SRT

Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS R-19 & BR-1

NORTHWEST RETAINING WALL
IL. 7 (Southwest Highway)
F.A.U. ROUTE 3578 SECTION 1327B
COOK COUNTY
STA. 1505+40.00 to STA. 1515+78.21
STRUCTURE NUMBER 016-W970

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