CONTRACT NO. 62712

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	74
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11
22 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 2
DATE 10/4, 2004
LOGGED BY TOB
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
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. 016-W970
Station
BORING NO. R-1
Northing 1809589.2, Sta. 1506+72.10
Easting 1114643.7, Offset 11.65' LT.
Ground Surface Elev. 686.5

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 (%)
6.0" ASPHALT, 6.0" CRUSHED STONE	685.5				
			6		113
CLAY-brown-hard (A-6) Fill			6		
			7	4.4B	18
	683.0				
			4		
CLAY LOAM-brown spotted black-very stiff (A-6) Fill			4		
		-5	4	3.5P	15
	680.5				
			3		102
CLAY-brown & gray spotted black-medium stiff to stiff (A-6) Fill			3		
			4	1.6B	24
			4		102
			3		
		-10	2	0.7B	24
	675.5				
			3		95
TOPSOIL-black (A-7)			4		
			3	1.25P	28
	673.0				
			2		99
			2		
CLAY-dark brown & gray - soft to medium stiff (A-7) Wet		-15	2	0.7B	26
			2		89
			2		
			3	0.4B	33
	668.0				
			2		110
CLAY-brown & gray-stiff (A-6)			3		
		-20	6	1.4B	20
CLAY-brown & gray-stiff (A-6)	665.5				
			3		114
CLAY-gray-stiff to very stiff (A-6)			2		
			3	1.4B	18
			3		111
			4		
		-25	6	1.25P	18
			5		108
			5		
			8	2.7B	21
			4		107
			5		
		-30	6	1.6B	22
			4		108
			5		
		-35	6	1.4B	21
			7		106
			8		
		-40	11	1.6B	22

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 10/4, 2004
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ROUTE IL Route 7 DESCRIPTION Retaining Wall
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. 016-W970
Station
BORING NO. R-1
Northing 1809589.2, Sta. 1506+72.10
Easting 1114643.7, Offset 11.65' LT.
Ground Surface Elev. 686.5

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 (%)
CLAY-gray-stiff to very stiff (A-6)					
			6		118
			10		
		-45	12	3.5B	16
			5		127
			7		
		-50	9	1.8B	12
	633.0				
			7		129
CLAY-gray-hard (A-6)			11		
		-55	12	5.8B	11
CLAY-gray-hard (A-6)					
			13		125
			13		
		-65	18	4.25B	13
	616.5	-70	11		
			14		
			18	4.5P	13
End Of Boring @ -70.0' Hollow Stem Augers to -10.0' Rotary Drilling to Completion CME-75 Automatic Hammer					
		-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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SOIL BORING LOG

PAGE 1 of 2
DATE 10/1, 2004
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GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
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. 016-W970
Station
BORING NO. R-2
Northing 1809645.4, Sta. 1507+45.18
Easting 1114690.3, Offset 12.40' LT.
Ground Surface Elev. 684.3

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 (%)
6.0" ASPHALT, 6.0" CRUSHED STONE	683.3				
			4		114
CLAY-brown & gray-hard (A-7-6) Fill			4		
			7	5.3B	18
			2		
			2		
		-5	3	4.5+P	22
	678.3				
			2		86
			2		
CLAY-brown & gray-medium stiff (A-6) Fill, Wet			2	0.5B	29
			2		110
			2		
		-10	2	0.9B	16
	673.3				
			1		
ORGANIC CLAY-black (A-8)			2		
			2	0.25P	61
	670.8				
			1		
CLAY-dark brown, gray & black-soft (A-7) Fill, Wet			1		
		-15	2	0.4B	41
	668.3				
			1		
			1		
ORGANIC CLAY-dark brown & gray (A-8)			2	0.25P	84
			1		
		-20	1	0.25P	71
ORGANIC CLAY-dark brown & gray (A-8)	663.3				
			1		109
CLAY-gray-soft to medium stiff (A-6)			1		
			2	0.4B	20
			1		
		-25	3	0.5P	20
			2		113
			2		
			3	0.9B	18
	655.8				
			1		108
			3		
		-30	4	1.8B	17
CLAY-gray-stiff to very stiff (A-6)					
			2		108
			3		
		-35	5	2.5B	21
			5		
		-40	7	1.0B	22

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

DESIGNED	-
CHECKED	-
DRAWN	MD
CHECKED	SRT

Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS R-1 & R-2

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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