CONTRACT NO. 62712

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	78
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
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 August 10, 2004
LOGGED BY RJ
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 Safety
STRUCT. NO. 016-W970
Station
BORING NO. R-7
Northing 1809916.7, Sta. 1511+01.63
Easting 1114921.6, Offset 11.07' LT.
Ground Surface Elev. 682.1

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 (%)	
				6.0" ASPHALT, 6.0" CRUSHED STONE 681.1
	4		103	
	4			CLAY–brown & gray–stiff to very stiff (A–6) Fill
	7	1.8B	21	
	3		106	
	5			
–5	6	2.5B	22	
				676.1
	2		91	
	2			CLAY–brown & gray– medium stiff to stiff (A–6) Fill, Wet
	4	0.9B	27	
	2		98	
	2			
–10	3	0.7B	25	
	3			
	3			
	5	1.75B	22	
	2			
	3			
–15	6	1.5P	24	
				666.1
	2			
	4			CLAY LOAM–brown–soft (A–6)
	5	0.4B	23	
				664.1
	1			ORGANIC CLAY with fiberous peat–black (A–8)
	1			
–20	2	–	143	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				ORGANIC CLAY with fiberous peat–black (A–8) 661.1
	2			
	2			ORGANIC CLAY–dark gray (A–8)
	2	0.5P	64	
				658.6
	1		109	
	2			
–25	3	0.4B	20	CLAY–gray–soft (A–6)
				656.1
	3			
	4			CLAY LOAM–brown & gray– medium dense (A–4)
	6	NP	19	
				653.6
	3		114	
	5			
–30	5	1.8B	18	CLAY–gray–stiff to very stiff (A–6)
	4			
	4			
–35	7	3.5P	20	
				643.1
	5			
	5			SANDY LOAM–gray–medium dense (A–2–4)
–40	6	NP	21	

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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SOIL BORING LOG

PAGE 2 of 2
DATE August 10, 2004
LOGGED BY RJ
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 Safety
STRUCT. NO. 016-W970
Station
BORING NO. R-7
Northing 1809916.7, Sta. 1511+01.63
Easting 1114921.6, Offset 11.07' LT
Ground Surface Elev. 682.1

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 (%)	
				SANDY LOAM–gray–medium dense (A–2–4)
				638.6
	6			CLAY–gray–hard (A–6)
	9			
–45	12	4.5+P	17	
	9			
	10			
–50	12	4.0P	12	
				SILT–gray–very dense (A–4)
	7			
	10			
–55	13	4.0P	12	
				607.1
	11			End Of Boring @ –75.0'
	16			Hollow Stem Augers to –10.0'
–60	18	–	10	Rotary Drilling to Completion
				D–120 Safety Hammer

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				CLAY–gray–hard (A–6)
	14			
	21			
–65	18	4.5+P	10	
				613.6
	15			
	34			
–70	18	NP	19	SILT–gray–very dense (A–4)
	23			
	29			
–75	31	NP	20	
–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
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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Geotechnical, Environmental & Civil Engineering
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Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 2
DATE September 27, 2004
LOGGED BY RJ
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 Safety
STRUCT. NO. 016-W970
Station
BORING NO. R-8
Northing 1909984.4, Sta. 1511+90.22
Easting 1114978.7, Offset 11.25' LT.
Ground Surface Elev. 685.4

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 (%)	
				6.0" ASPHALT, 6.0" CRUSHED STONE 684.4
	8			
	8			
	9	2.5P	21	CLAY–brown & gray–stiff to very stiff (A–6) Fill
	3			
	5			
–5	5	2.0P	24	
				679.4
	3			
	4			
	3	1.0P	24	
				677.4
	2			CLAY–brown & gray– medium stiff (A–6) Fill, Wet
	3			
–10	3	0.75P	25	
	1			
	2	0.75P	25	
	1			
	2			
–15	2	0.5P	26	
	1			
	1			
	2	0.25P	28	CLAY LOAM–brown–soft (A–6)
				666.9
	1		78	ORGANIC CLAY–dark gray (A–8)
	1			
–20	1	0.1B	43	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				ORGANIC CLAY–dark gray (A–8) 664.4
	2		107	
	2			CLAY LOAM–gray–very soft (A–6)
	3	0.1B	23	
	3		114	
	3			
–25	6	0.2B	19	
				659.4
	6		116	
	6			
	8	0.7B	17	
	4		109	CLAY LOAM–gray– medium stiff to stiff (A–6)
	6			
–30	7	1.4B	19	
	3		104	
	5			
–35	8	0.9B	22	
	6			Sand seam @ –39.0'.
	8			
–40	8	1.75P	16	

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-7 & R-8

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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