F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	711
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-9

62695

OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST./ARLINGTON HTS., IL 60005
(847)398-1441 • FAX(847) 398-2376

SOIL BORING LOG

PAGE 1 of 2
DATE August 31, 2002
LOGGED BY RH
OBA JOB No. 02235

ROUTE FAU Route 1541 DESCRIPTION Proposed Bridge Improvements IDOT Project No. D-91-122-97
SECTION 1818-4B LOCATION 76th St. over FAI 94 Chicago, Illinois (Sections 27 & 28-T38N-R14E)
COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 016-2850
Station 73+49.33
BORING NO. SB-76-7
Station 74+49.48
Offset 42.6' Right
Ground Surface Elev. 572.8 (-6.7 CCD)

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 529.2
Upon Completion 529.2
After ____ Hrs. ____

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL with GRAVEL (Fill)		8		
		8		
		9		14
		2		
CLAY– gray–very stiff to hard (A–6)		4		
	–5	7	4.6B	16
		4		
		7		
SANDY CLAY LOAM– gray–dense (A–4)		12	4.7B	14
		6		
		7		
CLAY– gray–hard (A–6)	–10	10	5.3B	12
		6		
		8		
		11	3.7B	12
		5		
		8		
	–15	11	3.7B	13
		6		
SILTY LOAM– gray–very dense (A–4)		7		
		9	4.7B	13
		7		
		9		
	–20	12	3.7B	12
CLAY– gray–very stiff to hard (A–6)		4		
		7		
		8	2.8B	14
		3		
		8		
	–25	10	3.1B	13
		8		
		12		
		23	NP	10
		11		
		21		
	–30	27	9.6B	11
		15		
		23		
		30	4.5+P	10
		8		
		15		
	–35	19	9.6B	11
		10		
		26		
		30	NP	11
		20		
		36		
	–40	40	NP	13

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 31, 2002
LOGGED BY RH
OBA JOB No. 02235

ROUTE FAU Route 1541 DESCRIPTION Proposed Bridge Improvements IDOT Project No. D-91-122-97
SECTION 1818-4B LOCATION 76th St. over FAI 94 Chicago, Illinois (Sections 27 & 28-T38N-R14E)
COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 016-2850
Station 73+49.33
BORING NO. SB-76-7
Station 74+49.48
Offset 42.6' Right
Ground Surface Elev. 572.8 (-6.7 CCD)

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 529.2
Upon Completion 529.2
After ____ Hrs. ____

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM– gray–very dense (A–4)		30		
		33		
		39	NP	9
CLAY with Fractured STONE– gray–hard (A–6)		28		
		32		
	–45	36	4.5+P	8
End of Boring @ –45.0' Hollow Stem Augers CME Automatic Hammer				
	–155(0)			
	–165			
	–180(0)			

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	–196(5)			
	–217(0)			
	–227(5)			
	–248(0)			

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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KNIGHT
Engineers & Architects

DWG. S-41 of 42

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOGS - SB7
76TH STREET OVER FAI-94
FAP ROUTE 1541 SECTION 1818 R-9
COOK COUNTY
STATION 73+49.33
STRUCTURE NUMBER 016-2850

SCALE: NONE DESIGNED BY: OBA DRAWN BY: TL
DATE: March 25, 2005 CHECKED BY: TB CHECKED BY: TB