F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	707
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) 398-2378

SOIL BORING LOG

PAGE 1 of 2
DATE September 17, 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-76-3
Station 71+98.82
Offset 24.8' Right
Ground Surface Elev. 588.6 (9.1 CCD)

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				2.0" Asphalt, 10.0" Concrete
	3			
	3			
	4	NP	17	Silty SAND, CINDERS & WOOD-very loose to loose (Fill)
	2			CLAY-gray-very stiff to hard (A-6)
	1			
-5	1	NP	33	
	2			
	1			CLAY-gray-stiff to very stiff (A-6)
	2	1.25P	25	
	2			
	3			
-10	4	1.5B	19	
	2			
	4			LOAM-gray-dense (A-4)
	4	2.0B	18	
	3			
	4			
-15	6	2.4B	19	CLAY-gray-very stiff to hard (A-6)
	3			CLAY-gray-hard (A-6)
	5			
	7	2.8B	17	
	5			
	5			
-20	10	4.1B	17	
-25	4			
	7			
	9	4.0B	17	
	5			
	7			
	8	4.5B	13	
	6			
	10			
	11	4.1B	13	
	7			
	11			
-30	16	7.6B	12	
	13			
	17			
	17	NP	12	
	12			
	16			
-35	20	4.5P	10	
	9			
	14			
	16	5.3B	12	
	7			
	10			
-40	16	6.0B	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

OBA

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SOIL BORING LOG

PAGE 2 of 2
DATE September 17, 2002
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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-76-3
Station 71+98.82
Offset 24.8' Right
Ground Surface Elev. 588.6 (9.1 CCD)

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	20			
	24			
	27	4.5P	10	CLAY-gray-hard (A-6)
	25			
	35			
-45	30	4.5P	11	
	20			
	25			
	32	4.5P	11	
	13			
	20			
-50	32	4.5P	11	
	27			
	30			SILTY LOAM to SILT-gray-very dense (A-4)
	40	NP	13	
				Drillers Observation: Cobbles from -52.0' to 54.0'
	35			
	50/51			
-55		NP	14	
				End of Boring @ -55.0' Hollow Stem Augers CME Automatic Hammer
-60				
-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
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

FILE: L:\6592.02\Cad\Sheets\Roadway Structures\Bridge\6592-52850-SB02.dgn

KNIGHT
Engineers & Architects

DWG. S-37 of 42

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOGS - SB3
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