F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	712
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-9

62695

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 September 17, 2002
LOGGED BY TK
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-76-8
Station 74+96.39
Offset 21.9' Right
Ground Surface Elev. 588.9 (9.4 CCD)

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" Asphalt, 8.0" Concrete				
Fine SAND-brown-medium dense (Fill)		10		
		9		
		12	NP	10
		6		
SANDY TOPSOIL-black		3		
	-5	2	-	46
		5		
SILTY LOAM to LOAM-brown & gray-loose (A-4)		5		
		3	NP	25
		1		*106*
		3		
	-10	5	1.6B	19
CLAY-gray-stiff to very stiff (A-6)				
		2		*104*
		3		
		5	1.7B	19
		3		*108*
		4		
	-15	6	2.0B	18
		3		*108*
		5		
		6	1.9B	17
		3		*109*
		6		
	-20	4	2.7B	16

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to very stiff (A-6)				
		6		
		10		
		12	4.5P	13
CLAY-gray-hard (A-6)				
		7		*111*
		11		
	-25	10	4.6B	12
		8		*114*
		10		
		11	4.3B	13
		5		*116*
		9		
	-30	11	6.1B	12
		7		*116*
		8		
		11	5.3B	14
		4		*111*
		7		
	-35	9	4.1B	14
		5		*115*
		7		
		9	4.1B	14
		3		*116*
		7		
	-40	11	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

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PAGE 2 of 2
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Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After ___ Hrs.

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		4		
		8		
CLAY-gray-hard (A-6)		11	4.5P	12
		11		*115*
		18		
	-45	25	7.8S	11
		11		*116*
		16		
		25	10.7S	11
		10		
		15		
	-50	20	4.5P	12
		10		
		16		
		23	4.5P	12
		9		
		15		
	-55	22	4.5P	11
		10		
		15		
		22	4.5P	12
		9		
End of Boring @ -60.0'		15		
Hollow Stem Augers				
CME Automatic Hammer	-60	20	4.5P	11

Description	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
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-S2850-SB07.dgn

KNIGHT
Engineers & Architects

DWG. S-42 of 42

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOGS - SB8
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