

PAGE 1 of 2
DATE September 18, 2002
LOGGED BY TK
OBA JOB No. 02235

OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1225 E. DAVIS ST./ARLINGTON HTS., IL 60009
(847)398-1441 • FAX(847) 398-2376

SOIL BORING LOG

ROUTE FAU Route 1541 DESCRIPTION Proposed Bridge Improvements IDOT Project No. D-91-122-97
SECTION 181B-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-76-6**
Station 74+96.72
Offset 37.5' Left
Ground Surface Elev. *588.6 (P.I. CCD)*

DEPTH (ft)	BLOW S	UCS Qu	MOIST (%)	Surface Water Elev.		Stream Bed Elev.		DEPTH (ft)	BLOW S	UCS Qu	MOIST (%)
				(ft)	(/6")	(tsf)	(%)				
4.0" ASPHALT, 8.0" CONCRETE											
7								6			
6								10			
5	NP	12						14	5.7B	14	
CLAY-gray-very stiff to hard (A-6)											
3								5			
2								8			
-5	2 NP	60						-25	12 4.7B	12	
SANDY LOAM with Cinders-black-loose (Fill)											
2								6			
2								8			
2	1.6B	21						10	4.9B	11	
CLAY-brown & gray-stiff (A-6)											
2								7			
2								10			
-10	3 0.8B	18						-50	12 5.9B	12	
CLAY-gray-medium stiff to very stiff (A-6)											
3								5			
4								12			
6	1.9B	17						12	3.2B	10	
4								5			
6								9			
-15	8 2.0B	17						-35	13 3.2B	8	
3								6			
5								7			
5	1.4B	17						10	4.1B	12	
CLAY-gray-very stiff to hard (A-6)											
4								6			
7								10			
-20	9 4.9B	17						-40	13 4.2B	11	

Groundwater Elevation:
First Encounter Dry ▼
Upon Completion Dry ▼
After _____ Hrs. ▼

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 T208) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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				(ft)	(/6")	(tsf)	(%)				
CLAY-gray-very stiff to hard (A-6)											
8								11			
12								12	4.5+P	12	
CLAY-gray-very stiff to hard (A-6)											
9								9			
11								11			
-45	13	4.5+P	12					-45	13	4.5+P	12
SAND with Gravel-gray-medium dense (A-1-b)											
5								5			
7								7			
8	NP	8						8	NP	8	
CLAY to CLAY LOAM-gray-very stiff to hard (A-6)											
8								8			
12								12			
-50	13	3.7P	13					-50	13	3.7P	13
CLAY to CLAY LOAM-gray-very stiff to hard (A-6)											
7								7			
10								10			
14								14	4.5+P	11	
10								10			
16								16			
-55	18	6.7B	11					-55	18	6.7B	11
CLAY to CLAY LOAM-gray-very stiff to hard (A-6)											
10								10			
18								18			
23								23	4.5+P	10	
End of Boring @ -60.0' Hollow Stem Augers CME Automatic Hammer											
16								16			
25								25			
-60	32	4.5+P	10					-60	32	4.5+P	10

Groundwater Elevation:
First Encounter Dry ▼
Upon Completion Dry ▼
After _____ Hrs. ▼

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NR-No Recovery

FILE: L:\15592.02\15592.02\15592.02\Roadway Structures\Bridges\6592-52850-SB05.dgn



REVISIONS	
NAME	DATE

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ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOGS - SB6
76TH STREET OVER FAI-94
FAP ROUTE 1541 SECTION 181B 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