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

STRUCTURE FOUNDATION
METRIC BORING LOG

Sh 1 of 2

Project Oriole Avenue over John F. Kennedy Expressway — OBA JOB NO. 00140
Route FAU 3410 over FAI 90 — Structure No. 016-1101 — Rig CME-75
Section 1515.1F-B — Location Chicago, Illinois — Bored By CC
County Cook — Date February 17, 2000 — Checked By DOB

BORING NO. DB-1
Station 00+957.5
Offset 12.0 m Rt.

Surface Water Elev. N/A
Groundwater Elevation 196.75 WD
Groundwater Elevation 196.6 AB
After Hours

Description	Elev.	Blow Counts	R (mm)	Qu (kPa)	W (%)
Ground Surface Elevation 199.9					
Black TOPSOIL	199.6				
SAND & GRAVEL-brown-loose (A-1) FILL	199.15	4 4 3		NP	5
SANDY LOAM with Gravel-brown-medium dense (A-2) FILL	198.7	1 4 6		NP	12
LOAM-grayish brown-loose (A-4) FILL	-1.5 198.1	4 3 2		NP	11
Black TOPSOIL		2 4 4		-	40
	-3.0	1 1 1		-	34
	196.75 ▽ ▼				
CLAY-gray-soft to stiff (A-6)		1 1 1		96P	22
	-4.5	1 1 1		80B	27
	-6.0	1 2 1		56B	25
	-7.5	1 2 3		48B	25
		1 3 3		88B	28
CLAY-gray-soft to stiff (A-6)		2 2 6		136B	21
	-9.0	2 4		96B	21
		1 3 3		56B	22
	-10.5	2 3 9		128B	22
SANDY CLAY to SANDY CLAY LOAM-gray-stiff to very stiff (A-6)	189.1	3 6 8		136B	14
	-12.0	4 4 6		200B	11
CLAY-gray-medium stiff to stiff (A-6)	187.6	4 4 4		56B	23
	-13.5	3 5 6		80B	12
		2 5 5		136B	19
CLAY-gray-very stiff (A-6)	185.35	7 8 14		208B	20

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in millimeters
B-Bulge Failure S-Shear Failure
E-Estimated Value P-Penetrometer
Qu-Unconfined Compressive Strength (kPa) Unit wt. (kN/m³) noted in
W-Water Content, percent dry weight italics above w%
NP-Non-Plastic

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BORING NO. DB-1
Station 00.957.5
Offset 12.0 m Rt.

Surface Water Elev. N/A
Groundwater Elevation 196.75 WD
Groundwater Elevation 196.6 AB
After Hours

Description	Elev.	Blow Counts	R (mm)	Qu (kPa)	W (%)
CLAY-gray-very stiff (A-6)	-16.5	3 6 9		250B	21
	182.5				
SILT-gray-medium dense (A-4)	-18.0	7 13 14		NP	15
	181.0				
CLAY-gray-very stiff (A-6)	-19.5	3 6 8		224B	16
	-21.0	2 5 10		240B	20
	-22.5	4 8 11		240B	18
CLAY-gray-very stiff (A-6)	176.8				
CLAY-gray-hard (A-6)	175.9 -24.0	9 19 29		536B	12
END OF BORING at -24.0 m Hollow Stem Augers CME Automatic Hammer	-25.5				
	-27.0				
	-28.5				
	-30.0				

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Notes: Dimensions are in SI units.
Elevation 199.930 SI = About 655.93 English

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DESIGNED - SEA	REVISED -
CHECKED - RJL	REVISED -
DRAWN - JJE	REVISED -
CHECKED - SEA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 016-1101
SHEET NO. 32 OF 36 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1515.1-B	COOK	101	75
STA. TO STA.		CONTRACT NO. 60M79		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		