STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	435
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
9 SHEETS

D-91-552-99 Contract No. 60881

OBA

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

STRUCTURE FOUNDATION
BORING LOG

Sh 2 of 2

Project Subsurface Investigation for the Proposed IL Route 22 Reconstruction OBA JOB NO. 00458
Route F.A.P. Route 337 County Lake Date 3-7-01
Location IL Route 83 to U.S. Route 41, Lake County IL. Bored By Patrick
IDOT Job No. P-91-552-99 Checked By DOB

BORING NO. B-2

Station 100+976
Offset 0.5m Left

Surface Water Elev. N/A
Groundwater Depth 4.4m WD
Groundwater Depth Dry AB
After Hours

Elev.	Depth	Blow Counts	R (mm)	Qu (kPa)	W (%)
CLAY-gray-very stiff to hard (A-6)					
		4			15.8
		8			
195.0	-16.5	12		325B	21
END OF BORING @ -16.5m					
Hollow Stem Augers					
CME Automatic Hammer					
	-18.0				
	-19.5				
	-21.0				
	-22.5				
	-24.0				
	-25.5				
	-27.0				
	-28.5				
	-30.0				

N-Standard Penetration Test (ASTM D-1586) Type Failure S-Shear Failure
R-Recovery in Inches B-Bulge Failure P-Penetrometer
NR-No Recovery E-Estimated Value
O'BRIEN & ASSOCIATES, INC.

Qu-Unconfined Compressive Strength (kPa)init wt.(kN/m³) noted in
W-Water Content, percent dry weight Italics above w%
NP-Non-Plastic

OBA

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STRUCTURE FOUNDATION
BORING LOG

Sh 1 of 1

Project Subsurface Investigation for the Proposed IL Route 22 Reconstruction OBA JOB NO. 00458
Route F.A.P. Route 337 County Lake Date 3-7-01
Location IL Route 83 to U.S. Route 41, Lake County IL. Bored By Patrick
IDOT Job No. P-91-552-99 Checked By DOB

BORING NO. B-3

Station 100+964
Offset 14.1m Left

Surface Water Elev. N/A
Groundwater Depth Dry WD
Groundwater Depth Dry AB
After Hours

Elev.	Depth	Blow Counts	R (mm)	Qu (kPa)	W (%)
Ground Surface Elevation 209.9					
TOPSOIL-dark brown to black Wet		2			
		3			
209.1		5		168P	60
CLAY-dark brown & gray-stiff (A-6) Wet		2			
Note: Sand seam @ -1.2m		7			
208.3	-1.5	5		132P	26
CLAY-brown & gray-very stiff (A-6)		3			
		7			
		5		311P	20
		4			16.3
206.6	-3.0	5			
		6		192B	20
		2			16.4
CLAY-gray-stiff to very stiff (A-6)		2			
		3		96P	20
Note: Sand seam @ -4.2m		2			
		2			
	-4.5	3		228P	23
		3			15.2
		3			
		5		205B	21
204.9		3			17.0
CLAY-gray-medium stiff to stiff (A-6) Wet		3			
	-6.0	4		158B	25
		2			
		2			
		3		86B	27
203.0					
CLAY-gray-very stiff to hard (A-6)		3			16.3
		5			
	-7.5	7		422B	19
		4			16.6
CLAY-gray-very stiff to hard (A-6)		7			
		10		356B	19
Note: Sand seam @ -8.8m		6			
		8			
	-9.0	10		479B	19
		5			17.0
		7			
		10		431B	18
		3			16.4
	-10.5	6			
		9		420B	20
		3			16.7
Note: Sand seam @ -11.2m		8			
		9		316B	19
		7			16.9
		11			
	-12.0	13		479B	19
		8			
		11			
		14		431B	12
		5			18.5
		6			
196.4	-13.5	11		508B	14
END OF BORING @ -13.5m					
Hollow Stem Augers					
CME Automatic Hammer					
	-15.0				

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R-Recovery in Inches B-Bulge Failure P-Penetrometer
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W-Water Content, percent dry weight Italics above w%
NP-Non-Plastic

TYLIN INTERNATIONAL

DESIGNED	
CHECKED	
DRAWN	MAF
CHECKED	

DATE 03-22-2004

BORING LOGS

IL ROUTE 22 OVER
KILDEER CREEK
FAP 337 SECTION 20R-5
LAKE COUNTY
STA. 100+978.642
S.N. 049-C003

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