

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP	SECTION	QUANTITY	DATE	SHEET
337	20R-5	LAKE	562	434
SHEET NO. 8 9 SHEETS				
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
D-91-552-99		Contract No. 60881		

STRUCTURE FOUNDATION BORING LOG

Sh 1 of 1

OBA
O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1235 E. DAVIS ST., ARLINGTON HTS., IL 60005
(647)398-1441 • FAX(647) 398-2376

Project: Subsurface Investigation for the Proposed IL Route 22 Reconstruction
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-1
Station: 100+002
Offset: 10.9m Right

SOIL TYPE	DEPTH (m)	QU (kPa)	W (%)	REMARKS	RECOVERY (in)	QU (kPa)	W (%)
Ground Surface Elevation	210.8						
SILTY CLAY to CLAY-trace organics-dark brown-stiff (A-6) Fill	210.0	120P	40			402B	18
CLAY-brown-stiff (A-6)	209.3 -1.5	170B	23			297B	22
CLAY-brown-hard (A-6)	207.9 -3.0	488B	21			172B	24
CLAY-gray-stiff to very stiff (A-6)	199.5	194B	18			301B	20
CLAY-gray-stiff to very stiff (A-6)	-4.5	220B	18			427B	19
CLAY-gray-hard (A-6)	204.8	214B	19			546B	18
CLAY-gray-stiff to hard (A-6)	-7.5	316B	20			431B	20
CLAY-gray-very stiff to hard (A-6)	-15.0	451B	16			479B	21

Surface Water Elev. N/A
Groundwater Depth -6.4m WD
Groundwater Depth Dry AB
After Hours

END OF BORING @ -14.5m
Hollow Stem Augers
CME Automatic Hammer

STRUCTURE FOUNDATION BORING LOG

Sh 1 of 2

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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

SOIL TYPE	DEPTH (m)	QU (kPa)	W (%)	REMARKS	RECOVERY (in)	QU (kPa)	W (%)
Ground Surface Elevation	211.2						
203mm ASPHALT, 203mm CONCRETE	211.2						
CLAY to CLAY LOAM-dark brown-stiff (A-6) Fill	210.8	120P	12			483B	20
CLAY-gray-very stiff to hard (A-6)	-1.5	120P	32			402B	23
CLAY-dark brown & gray-stiff (A-6) Wet	-3.0	120P	27			287B	24
Note: Sand Seam @ -3.4m	-3.4						
CLAY-gray-stiff to very stiff (A-6)	-4.5	135B	19			192B	17
Note: Sand Seam @ -5.7m	-5.7						
Poorly Graded SAND with GRAVEL-gray-loose (A-1-b)	-6.0	359P	18			316B	19
CLAY-gray-very stiff to hard (A-6)	-15.0	285B	17			316B	20

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

N-Standard Penetration Test (ASTM D-1586) Type Failure
R-Recovery in Inches
NR-No Recovery
B-Bulge Failure
E-Estimated Value
S-Shear Failure
P-Penetrometer
QU-Unconfined Compressive Strength (kPa) (+ wt. (kN/m³) noted in Italics above w%
W-Water Content, percent dry weight
NP-Non-Plastic

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TYLINT INTERNATIONAL

DESIGNED	MAF
CHECKED	MI
DRAWN	MAF
CHECKED	MI
DATE	03-22-2004

BORING LOGS	
IL ROUTE 22 OVER KILDEER CREEK FAP 337 SECTION 20R-5 LAKE COUNTY STA. 100+976.642 S.N. 049-C003	