ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG

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Date 07/24/04

ROUTE: US 45 | DESCRIPTION: Metra Bridge over LaGrange Road
SECTION: 103R-5 | STRUCTURE NO.: 016-Z003 | DRILLED BY: SEECO Consultants Inc./GF
COUNTY: Cook | LOCATION: Orland Park, IL

Boring No.: B-2
Station: 292+76
Offset: 59' Lt.
Surface El.: 679.60 ft. M.S.L.

Perf. Mat. El.: N.A.
Groundwater Elev.:
When Drilling: 14' (665.6)
at Completion: 11' (668.6)
After: 48hr

DEPTH	BLOWS	QU TSF	W %	DESCRIPTION
1.0				FILL: SILTY CLAY LOAM, Gray and Black, Trace Gravel (A-5)
2.0	6	3.8 P	21.4	
3.0				CLAY, Brown and Gray, Trace Fine Gravel, Trace Sand, Very Stiff, Moist (A-6)
4.0				
5.0	12	3.3 P	22.5	CLAY, Brown and Gray, Trace Black, Trace Fine Gravel, Trace Sand, Very Stiff, Moist (A-6)
6.0				
7.0				CLAY, Gray, Trace Fine Gravel, Trace Sand, Very Stiff, Moist (A-6)
8.0	16	3.0 P	22.6	
9.0				
10.0				
11.0	18	3.5 B	14.9	DD = 120.0 pcf
12.0				
13.0				
14.0	17	3.0 P	15.5	
15.0				
16.0				
17.0				SILTY CLAY, Brownish Gray, Trace Fine Gravel, Trace Sand, Medium, Moist (A-6)
18.0				
19.0	9	0.9 B	18.3	
20.0				
21.0				DD = 118.5 pcf
22.0				
23.0				
24.0	16	2.3 P	14.0	SILTY CLAY LOAM, Gray, Trace Fine Gravel, Trace Sand, Very Stiff to Hard, Moist (A-4)
25.0				
26.0				LL = 16 PL = 12
27.0				
28.0				
29.0	17	2.5 P	15.6	DD = 127.5 pcf
30.0				
31.0				
32.0				
33.0				
34.0	16	4.0 P	13.7	DD = 122.5 pcf
35.0				
36.0				
37.0				
38.0				
39.0	24	4.0	15.0	
40.0				SILT, Gray, Trace Clay, Trace Sand, Medium Dense, Moist
41.0			19.6	
42.0				(A-4)
43.0				
44.0	23		18.4	
45.0				
46.0				
47.0				
48.0				
49.0	26		17.5	
50.0				
51.0				
52.0				
53.0				
54.0	39		16.7	
55.0				
56.0				
57.0				
58.0				
59.0	38		16.5	
60.0				
61.0				
62.0				
63.0				
64.0	14		17.3	
65.0				
66.0				
67.0				
68.0				
69.0	54		18.0	
70.0				
71.0				
72.0				
73.0				
74.0	61		17.4	
75.0				
76.0				
77.0				
78.0				
79.0	20	3.8 P	17.5	CLAY, Gray, Trace Sand, Very Stiff, Moist (A-6)
80.0				END OF BORING @ 80 FEET
81.0				
82.0				

N=Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"

(G,O,B)=Bulge, S=Shear, P=Penetrometer Test
Stations, Depths, Offset, and Elevations are in Feet
Offset is from edge of traveled Pavement

SEECO Job No. 2947K

BORING LOG 3B-B-1 HA

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WEI Job No.: 201-40-01
Client: McDonough Associates Inc.
Project: US 45, Segment 3
Location: Rot. Wall 016-Z003, Cook Co., T36N, R12E

Datum: NGVD
Elevation: 676.77 ft
North: 1010179.32 ft
East: 1115263.53 ft
Station: 293+75.96
Offset: 66.71 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	3-inch thick, brown SILTY LOAM --TOPSOIL--		PUSH	1	2.50 P		16
	Stiff to very stiff, brown and gray CLAY LOAM, trace gravel --FILL--		PUSH	2	2.50 P		17
		5	PUSH	3	1.00 P		20
	Very stiff, brown and gray SILTY CLAY		PUSH	4	2.50 P		22
		10	PUSH	5	2.50 P		24
	Boring terminated at 10.00 ft						
		15					
		20					
		25					

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	11-05-2010	Complete Drilling	11-05-2010	While Drilling	DRY
Drilling Contractor	WTS	Drill Rig	Geoprobe	At Completion of Drilling	DRY
Driller	R&J	Logger	N. Boddy	Time After Drilling	NA
Checked by	C. Marin			Depth to Water	NA
Drilling Method	Hand Auger				

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG 3B-B-1

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WEI Job No.: 201-40-01
Client: McDonough Associates Inc.
Project: US 45, Segment 3
Location: Rot. Wall 016-Z003, Cook Co., T36N, R12E

Datum: NGVD
Elevation: 676.72 ft
North: 1010169.88 ft
East: 1115256.97 ft
Station: 293+67.87
Offset: 50.30 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	26-inch thick ASPHALT --PAVEMENT--						
	9-inch thick CONCRETE --PAVEMENT--			1	15 7 50/3	NP	5
	Very dense, brown and gray CRUSHED STONE --BASE COURSE--						
	(Auger sample) brown SILTY CLAY LOAM --FILL--	5		2	4 4 6	NP	20
	Very stiff to hard, brown and gray SILTY CLAY, trace gravel			3	4 6 12	4.00 B	15
				4	4 6 10	4.25 B	16
				5	5 9 13	5.50 B	21
	--L.L.(%)=36, P.I.(%)=16-- --%Gravel=1.7-- --%Sand=10.6-- --%Silt=52.0-- --%Clay=35.7-- --A-6 (17)--			6	5 5 8	3.00 B	19
				7	5 6 12	3.25 B	20
				8	4 6 8	3.44 B	16
				9	4 7 10	3.85 B	16
	Medium dense, gray medium SAND			10	6 8 10	NP	14
	Very stiff, gray SILTY LOAM to SILTY CLAY LOAM, little GRAVEL			11	8 10 12	2.30 B	12
	--L.L.(%)=23, P.I.(%)=13-- --%Gravel=0.0-- --%Sand=21.8-- --%Silt=58.0-- --%Clay=14.4-- --A-4 (4)--			12	7 10 12	2.67 B	13
				13	6 8 12	2.13 B	19
	Dense, gray SILTY LOAM			14	9 13 23	NP	13
	Boring terminated at 40.00 ft						

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	10-15-2010	Complete Drilling	10-15-2010	While Drilling	23.00 ft
Drilling Contractor	K&S	Drill Rig	D-50 TMR	At Completion of Drilling	15.00 ft
Driller	T&M	Logger	B. Wilson	Time After Drilling	NA
Checked by	C. Marin			Depth to Water	NA
Drilling Method	3.25" IDA HSA; Boring backfilled upon completion.				

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

URS
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FILE NAME = 016Z003-60M62-007-bor.dgn	USER NAME = arsalan_khan	DESIGNED - WEI	REVISED - 04/12/2013 P.M.H.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS STRUCTURE NO. 016-Z003	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - NRP	REVISED -			330	103R-5	COOK	778	409
	PLOT SCALE = 0:2.0000 ' / in.	DRAWN - AMV	REVISED -					CONTRACT NO. 60M62		
	PLOT DATE = 4/12/2013	CHECKED - NRP	REVISED -		SHEET NO. 7 OF 7 SHEETS			ILLINOIS FED. AID PROJECT		