STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 776	(116BR -3)B-1	HAMILTON	140	83
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 18
21 SHEETS

Contract #78006

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

Page 1 of 2

Date 8/10/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer

SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM

COUNTY Hamilton DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 033-0022
Station 545+50

BORING NO. 1
Station 544+75
Offset 7.50ft Rt
Ground Surface Elev. 370.72 ft

Surface Water Elev. 358.29 ft
Stream Bed Elev. 358.29 ft

Groundwater Elev.:
First Encounter 326.2 ft
Upon Completion 347.7 ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12 1/2" Asphalt.	369.72				
10" Concrete pavement.	368.82				
Soft to medium, damp, gray, CLAY w/ silt.		-5	1 2 2	0.3 B	38
			0 1 2	0.8 B	39
		-10	1 2 3	0.9 B	37
			1 2 3	0.7 B	36
		-15	0 1 2	0.7 B	35
Stiff, damp, red marbled gray, CLAY.	353.52		2 3 4	1.7 B	28
	350.72	-20	0		
Soft, damp, gray, SILTY LOAM.			1 2	0.4 B	26
			0 1 2	0.3 B	21
		-25	0 0 2	0.3 B	19
Medium to stiff, damp, gray, SANDY LOAM.	343.72		1 1 2	1.0 B	18
Soft to medium.		-30	0 1 0	0.5 B	18
Medium to stiff, damp, gray, CLAY TILL.	339.72				
Gray, fine grained, SAND. *14% passing #200 sieve.*	335.72	-35	3 18 17	1.0 B	15
	331.22	-40	0		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Latitude N 37 deg 57.092 min. Longitude W 88 deg 28.145 min. Map Datum WGS 84

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

Page 2 of 2

Date 8/10/05

ROUTE FAP 776 (IL 142) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer

SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION SE 1/4, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM

COUNTY Hamilton DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 033-0022
Station 545+50

BORING NO. 1
Station 544+75
Offset 7.50ft Rt
Ground Surface Elev. 370.72 ft

Surface Water Elev. 358.29 ft
Stream Bed Elev. 358.29 ft

Groundwater Elev.:
First Encounter 326.2 ft
Upon Completion 347.7 ft
After ___ Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to stiff, damp, gray, CLAY TILL. *(continued)*			2 3	1.0 B	15
	326.22	-45	0		
Medium, wet, gray, fine grained, SAND. *60% passing #200 sieve.*			4 11		28
	321.22	-50	4		
Very stiff, damp, gray, CLAY TILL w/ few wood fragments.			9 13	3.7 B	15
	315.22	-55			
Very dense, moist, gray, poker chipped, CLAY SHALE.		-60	50/5"		
Extent of exploration.	310.52		50/2" 50/1"		6

Benchmark: BM 512 chiseled square on top of NE hubguard of existing bridge Station 543+60, Lt 17' = 371.36', provided by Program Development.

Note: Two sets of conflicting stationing present, borings referenced off nails on centerline.
B1 - 75' N of center of existing bridge.
B2 - 39' N of center of existing bridge.
B3 - 20' S of center of existing bridge.
B4 - 76' S of center of existing bridge.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Latitude N 37 deg 57.092 min. Longitude W 88 deg 28.145 min. Map Datum WGS 84

BORING 1

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-41-0021-1		DATE: 10/25/07
DESIGNED: R.J.P.	CHECKED: S.W.M.	DRAWN: D.A.B.

BORING 1
IL RTE. 142 OVER CONTRARY CREEK (SOUTH OVERFLOW)
F.A.P. ROUTE 776 - SECTION (116BR-3)B-1
HAMILTON COUNTY
STRUCTURE NO. 033-0052 / STATION 544+53.10

PLOT DATE : 10/26/2007 FILE NAME = 0330052-78006-41021bridge0052.dgn