STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 776	(116BR-1)B-1	HAMILTON	140	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 25
25 SHEETS

Contract #78006

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

SOIL BORING LOG

Page 1 of 3

Date 7/13/05

ROUTE FAP 776 (IL 142) DESCRIPTION Contrary Creek LOGGED BY E. Sandschafer
SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION E 1/2, 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. 033-0020
Station 516+75

BORING NO. 3
Station 517+22
Offset 27.00ft Lt
Ground Surface Elev. 371.43 ft

Surface Water Elev. 355.56 ft
Stream Bed Elev. 354.61 ft

Groundwater Elev.:
First Encounter 343.9 ft
Upon Completion Washed ft
After 24 Hrs. 347.4 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
371.13 Topsoil.			
Tan, CLAY w/ trace sand & gravel.			
369.43			
Hard to medium, damp, gray/brown, CLAY.	7		
	7	+4.5	11
	8	PP	
-5	3		
	4	1.0	23
	6	B	
364.43			
	0		
	2		
No recovery this trip.	2		
-10	0		
	1	0.3	28
Soft, to medium, damp, gray mottled blue, CLAY w/ trace silt.	1	B	
	0		
	0	0.5	30
	1	B	
356.93			
Soft to very soft, wet, gray, SILTY LOAM w/ wood chunks.	0		
-15	1	0.4	31
	2	PP	
	0		
	0	0.1	30
	0	B	
351.93			
-20	0		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, damp, brown mottled gray, SILTY CLAY. *(continued)*	2	0.8	22
	3	B	
349.43			
Medium, damp, gray, SANDY LOAM.	1		
	4	0.7	19
	5	B	
346.93			
Loose to very loose, water bearing, gray, fine grained, SAND. *27% passing #200 sieve.*	1		
-25	4		24
	6		
	0		
29% passing #200 sieve.	1		25
	3		
341.93			
Medium to soft, damp, gray, SANDY LOAM.	2		
-30	3	0.8	21
	3	B	
	0		
-35	0		
	3	0.3	26
	7	B	
-40	3		

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 39 deg 57 min 49 sec, Longitude W 88 deg 23 min 37 sec, Map Datum WGS 84

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

SOIL BORING LOG

Page 2 of 3

Date 7/13/05

ROUTE FAP 776 (IL 142) DESCRIPTION Contrary Creek LOGGED BY E. Sandschafer
SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION E 1/2, 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. 033-0020
Station 516+75

BORING NO. 3
Station 517+22
Offset 27.00ft Lt
Ground Surface Elev. 371.43 ft

Surface Water Elev. 355.56 ft
Stream Bed Elev. 354.61 ft

Groundwater Elev.:
First Encounter 343.9 ft
Upon Completion Washed ft
After 24 Hrs. 347.4 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium to stiff, damp, gray, SANDY CLAY TILL. *(continued)*	6	1.0	18
	5	B	
326.93			
Soft, damp, gray, SANDY LOAM w/ many fine gravel.	0		
-45	3	0.3	24
	4	B	
321.93			
Loose, wet, dark gray, fine grained, SAND. *24% passing #200 sieve.*	0		
-50	3		21
	5		
-55			
311.93			
Very stiff, damp, gray, CLAY TILL.	4		
-60			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very stiff, damp, gray, CLAY TILL. *(continued)*	11	3.2	16
	13	B	
306.93			
Soft, very moist, gray, CLAY SHALE.	12		
-65	21	2.3	13
	33	S	
-70	19		
300.93	42	2.9	9
Hard, very moist, gray, CLAY SHALE. 300.83	50/1"	S	
Borehole continued with rock coring.			
-75			

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 39 deg 57 min 49 sec, Longitude W 88 deg 23 min 37 sec, Map Datum WGS 84

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

ROCK CORE LOG

Page 3 of 3

Date 7/13/05

ROUTE FAP 776 (IL 142) DESCRIPTION Contrary Creek LOGGED BY E. Sandschafer
SECTION (116BR-1, BR-2, BR-3)B-1 LOCATION E 1/2, SEC. 31, TWP. 6 S, RNG. 7 E, 3 PM
COUNTY Hamilton CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 033-0020
Station 516+75

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

BORING NO. 3
Station 517+22
Offset 27.00ft Lt
Ground Surface Elev. 371.43 ft

Core Diameter 2.06 in
Top of Rock Elev. 306.93 ft
Begin Core Elev. 300.83 ft

DEPTH (ft)	CORE (ft)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Hard, dark gray, slightly weathered, soapy, CLAY SHALE. 300.83		80	80	0.9	
-75					
		90	90	0.9	
-80					
Extent of exploration. 290.83					
Benchmark: BM 514 Chiseled square on top wingwall on NE corner of existing bridge, Sta 516+37, Lt 17.6' = 370.60'					
-85					
-90					

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

BORING 3

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: P.L.	CHECKED: S.W.M.
	DRAWN: D.T.M.

BORING LOGS

IL ROUTE 142 OVER CONTRARY CREEK
F.A.P. ROUTE 776 - SECTION (116BR-1)B-1
HAMILTON COUNTY
STRUCTURE NO. 033-0050 / STATION 516+75

PLOT DATE: 10/26/2007 FILE NAME = 03300051-78006-41021br-dgn00150.dgn