ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

Sheet 1 of 2

FA 776 (IL 242) Over Branch of Big Creek

Route: FA 776 (IL 242) Structure Number: 033-0029 Date: 10/8/2008

Section 102B, 102BY-3 Bored By: Rich Moberly

County: Hamilton Location: 6 miles south of Wayne County line Checked By: Rob Graeff

Boring No 1-S
Station 712+32
Offset 9' Lt CL
Ground Surface 389.5 Ft

Surf Wat Elev: 376.9
Ground Water Elevation
when Drilling 364.5
At Completion
At: Hrs:

	DEPTH	BLOWS	Qu tsf	W%
Asphalt, Concrete and Crushed Aggregate				
388.0				
Stiff, moist, grey mottled brown, Silty Clay A7-6		1		
		2	1.2B	22
		2		
385.0				
Stiff, moist, grey mottled brown, Clay A7-6	5.0	1		
		2	1.3B	24
		2		
		1		
		2	1.1B	25
		2		
	10.0	1		
		2	1.2B	23
		3		
		1		
		3	1.6B	24
		4		
	15.0	1		
		4	2.7B	20
		5		
		1		
		3	1.6B	26
		4		
	20.0	1		
		3	1.6B	21
		3		
367.5				
Medium, moist to very moist, brown, Sandy Clay Loam A-4		1		
		3	0.8B	20
		4		
365.0				
	25.0	1		

	DEPTH	BLOWS	Qu tsf	W%
Soft, very moist, brown, Sandy Clay Loam A-4		3	0.4S	20
		4		
362.5				
Medium, moist to very moist, brown, Sand Loam A-4 with Clay seams 70% Sand 22% Silt 8% Clay		1		
		4		19
		7		
	30.0	2		
		9		
		12		
357.5				
Stiff, moist, brown mottled grey, Clay Loam to Sandy Clay Loam A-4		5		
		9	1.8S	13
		15		
355.0				
Hard, damp, grey, Clay to Clay Loam A-6	35.0	3		
		8	5.4B	14
		15		
352.5				
Dense, damp, grey, Fine Silty Sand 59% Sand 39% Silt 2% Clay		4		
		20	0.9S	21
		20		
350.0				
Stiff, damp, grey, Loam A-4	40.0	4		
		22	1.8S	20
		18		
345.0				
Very stiff, damp, grey, Loam A-4	45.0	3		
		8	3.3S	23
		11		
339.5	50.0	2		

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Route: FA 776 (IL 242)
Section: 102B, 102BY-3
County: Hamilton

Date: 10/8/2008

Boring No: 1-S
Station: 712+32
Offset: 9' Lt CL
Ground Surface: 389.5 Ft

	DEPTH	BLOWS	Qu tsf	W%
Very stiff, moist, grey, Clay Loam to Sandy Clay Loam A-6		6	2.1S	15
		9		
335.0				
Medium, very moist, grey, fine Silty Sand 59% Sand 39% Silt 2% Clay	55.0	2		
		8		19
		4		
		Washed 2.5'		
	60.0	4		
		11		
		18		
325.5				
Hard, damp, grey, weathered Clay Shale	324.5	65.0	Washed 1' 22	
Hard, dry, grey, Clay Shale		100/7"		
		70.0	100/2"	
Hard, dry, grey, Clay Shale	314.5	75.0	100/2"	

Bottom of hole = 74.7 feet

Free water observed at 25.0 ft

Elevation referenced to BM @ SE corner = 387.6 feet

To convert "N" values to "N60" values multiply by 1.25

DEPTH
80.0
85.0
90.0
95.0
100.0

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 1

FILE NAME = 290039-sht-bridge.dgn	USER NAME =	DESIGNED - S.M.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORINGS STRUCTURE NO. 033-0054
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - C.C.S.	REVISED -		SHEET NO. 21 OF 22 SHEETS
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP 184.005859	PLOT SCALE =	DRAWN - D.A.B.	REVISED -		
	PLOT DATE = 2/22/2011	CHECKED - M.D.C.	REVISED -		

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-1	HAMILTON	52	44
		CONTRACT NO. 78067		
	ILLINOIS FED. AID PROJECT			