

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

0420041_76B01_20_BDRG.DGN AUG. 20, 2008



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 2

Date 11/26/07

ROUTE FAP 325 DESCRIPTION Illinois Route 16 over Baum Branch Creek - Proposed SN 042-0041 LOGGED BY SCI
SECTION 3BR-2 LOCATION Richwood Township - SW Quarter of, SEC. 28, TWP. 8N, RNG. 13W
COUNTY Jersey DRILLING METHOD CME 75 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	Existing 042-0006	DEPTH	BULGE	UCS	MATERIAL	DEPTH	BULGE	UCS	MATERIAL
STATION		(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
BORING NO.	B-1								
Station	119+34								
Offset	8 ft Rt.								
Ground Surface Elev.	451.5								
ASPHALT - 3.5 inches		461.2							
CONCRETE - 9 inches		450.5							
FILL: Brown, low plastic sandy clay (A-6) NO RECOVERY - Auger cuttings collected and classification and moisture content test are based on cuttings.			3		16	430.0	0		27
Hard to auger from 2.5 to 3.5 feet - possible cobbles or rubble		448.0	2				2		
SILTY CLAY: Brown, low plastic (A-6)			4	1.0	19	427.0	1	0.9	25
			3	B		428.0	2	B	
SILT: Brown and gray, low plastic with intermittent deposits of brown, fine sand (A-4)		448.0	2	2.0	12		5		12
			1				8		
			2	P			10		
Becomes brown and clayey			2	0.8	23		4		25
			3	B			5		
			-10				5		
SAND: Brown, fine to coarse, trace rock fragments (A-1)		441.0	2						
			6						
			7						
SILTY CLAY: Brown and gray, low plastic, some sand (A-4)		438.5	1	0.6	23		6	1.3	17
			2	B			4	P	
			-18				11		
			0						
			2	0.9	23				
			2	B					
			1				4		25
			2	0.8	26		4	1.2	
			2	B			9	B	
			-20				4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



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STATION		(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
BORING NO.	B-1								
Station	119+34								
Offset	8 ft Rt.								
Ground Surface Elev.	451.5								
SILTY CLAY: Reddish brown and brown, low plastic (A-6) (continued)									
			5				8		
NO RECOVERY			-45				6		
CLAY: Reddish brown and gray, high plastic, some sand, some rock fragments (A-7)		404.5	7						
Poor recovery			6	2.0	13		8	P	
			-50						
SAND: Brown, fine to coarse, trace rock fragments (A-1)		401.0							
SHALE: Tan		400.0	50		10				
			50/3"						
Refusal on shale at 53 feet		398.5							
			-55						
			-60						

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DESIGNED	K.M.M.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SOIL BORING LOGS

SHEET NO. 20	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	325	3BR-2	JERSEY	90	61
21 SHEETS	S.N. 042-0041		CONTRACT NO. 76B01		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

H.M. & G. NO. 6020.III