



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

SOIL BORING LOG

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ROUTE FAP 665 (IL 116) DESCRIPTION Boring for Culvert Replacement (SN 029-2514) on IL Route 116 over Swegle Creek LOGGED BY SCI
SECTION 142RS-6; 143RS-4,(C-3)BR; LOCATION Approx. 250 ft east of Hershey Road; SW 1/4, SEC. 4, TWP. 8N, RNG. 3E,
COUNTY Fulton DRILLING METHOD CME45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	D P T H	B L O W S	U O S Qu	M I S T	Surface Water Elev. _____ ft				D P T H	B L O W S	U O S Qu	M I S T
					(ft)	(/6')	(tsf)	(%)				
029-2500 (existing) 240+54.87												
BORING NO. <u>B-1</u> Station <u>239+93</u> Offset <u>13 ft Rt</u> Ground Surface Elev. <u>614.2</u> ft												
ASPHALT - 6 inches CRUSHED ROCK - 9 inches												
FILL: dark brown clay, trace fine gravel (A-7)		7								4		
FILL: dark brown silty clay loam (A-6)		5	4.7	27						5	2.8	16
Becomes dark brown and brown		5	B							9	S	
		1								13		
		3	3.0	20						17	3.5	13
		6	B							13	S	
		2								10		
		3	1.2	27						16	3.1	12
		3	B							17	S	
FILL: dark brown and gray clay (A-7)		1								7		
1.65B; 24 percent moisture		2	0.2	36						16	3.0	13
CLAY LOAM: dark brown and brown, trace to some fine gravel (A-7)		3	B							18	S	
		1										
SANDY CLAY LOAM: dark gray and brown, trace to some fine gravel (A-4)		2	<0.25	27						30		
		2	P									
CLAYEY SHALE: Gray and brown		3								100	4.4	13
		7									S	
		5								100		
Becomes brown and gray		8	3.6	15						100	5.2	11
		12	S								S	
		4										
		8	3.7	16						100	4.5	9
		18	S								P	

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

BBS, form 137 (Rev. 8-99)



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COUNTY Fulton DRILLING METHOD CME45 w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station	D P T H	B L O W S	U O S Qu	M I S T	Surface Water Elev. _____ ft				D P T H	B L O W S	U O S Qu	M I S T
					(ft)	(/6')	(tsf)	(%)				
029-2500 (existing) 240+54.87												
BORING NO. <u>B-2</u> Station <u>240+88</u> Offset <u>14 ft Lt</u> Ground Surface Elev. <u>615.6</u> ft												
ASPHALT - 3 inches CRUSHED ROCK & SOIL MIXTURE												
FILL: Brown clay loam, trace fine gravel		13								21		
Sample appears frozen - Rimac test performed		9	6.1	18						29	2.8	13
		6	S							75	S	
		2								21		
		2	1.3	21						100	2.4	10
		3	P								S	
		-5								590.60	-25	
		1										
		2	1.0	21								
		3	P									
CLAY LOAM: Dark brown, trace fine gravel (A-7)		WH										
		2	0.6	29								
		1	B									
		-10										
		2										
SANDY CLAY LOAM: Dark grayish brown and brown, trace fine gravel (A-6)		1	<0.25	28								
		1	P									
CLAYEY SHALE: Gray and brown		4										
		7	4.8	14								
		11	S									
		-15										
Becomes brown and gray		5										
		20	4.5	11								
		26	P									
		16										
Hard to auger.		100	4.5	9								
		-20										

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrator)
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS
IL Route 116
Sta. 240+54.87
S.N. 029-2514

SCALE: NOT TO SCALE
DATE 1/23/2009

DRAWN BY DHS
CHECKED BY