



**Illinois Department of Transportation**  
Division of Highways

**SOIL BORING LOG**

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Date 11/11/09

ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG

SECTION \_\_\_\_\_ LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 55LC w/HSA HAMMER TYPE Automatic

STRUCT. NO. \_\_\_\_\_  
Station \_\_\_\_\_  
BORING NO. SB-23  
Station 1755+75.10  
Offset 15.72ft Rt  
Ground Surface Elev. 447.0 ft

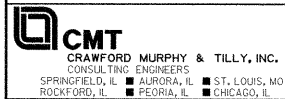
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)

Stream Bed Elev. \_\_\_\_\_ ft  
Groundwater Elev.:  
First Encounter 421.0 ft  
Upon Completion 434.0 ft  
After \_\_\_\_\_ Hrs. \_\_\_\_\_ ft

GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches				426.47				
CLAYEY SILT: Brown (A-4)	2					9		
	1	0.5	26			15	4.5	15
	2	B		424.72		15	P	
CLAY: Grayish brown (A-7)				423.97				
	2					9		
	3	1.6	26			14	1.3	17
	4	B				36	S/15	
	-5					-25		
SILTY CLAY: Brown and grayish brown (A-6)				441.47		50		
		1.3	21			50/3"	-	14
Shelby tube - 20 inches recovery. Unconfined compression strength test performed with results shown in Qu and Moist. columns. Dry density - 106.2 pounds per cubic foot.				438.72				
	2					50/3"	-	15
	3	1.4	21			50/1"		
	3	B				-30		
SILTY CLAY: Brown (A-7)				436.47				
	-10							
CLAY: Brown, trace sand (A-7)								
	2							
	2	1.8	21					
	3	B						
	4							
Becomes brown and gray	2					50/3"	-	11
	4	1.4	28			50/1"		
	4	B				-35		
	-15							
Trace gravel	2							
	4	2.3	17					
	7	B						
Some sand	5			408.17		50/3"	-	14
	4	1.3	16			50/1"		
	18	B				-40		

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)



CRAWFORD MURPHY & TILLY, INC.  
CONSULTING ENGINEERS  
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO  
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

FILE NAME =	USER NAME = OpenH8B Springfield	DESIGNED - JMW	REVISED -
L:\IDOT\0906603\Draw\CADD_Sheets\		CHECKED - REB	REVISED -
STRUCTURAL PLANS\MSE WALLS\		DRAWN - AJK	REVISED -
100-W003\	PLOT SCALE = 1:0000' / 1" IN.	CHECKED - REB	REVISED -
100W003-98859-016-Borings.dgn	PLOT DATE = 12/13/2011		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 100-W003

SHEET NO. 16 OF 16 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1X-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	293
			CONTRACT NO. 98859	
ILLINOIS FED. AID PROJECT				