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(VO)	Illinois Department
1141	of Transportation
	Division of Highways

SOIL BORING LOG

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Division of Highways	ILGILI	V I.I	6		~	SIE DOMING EO			200000000000000000000000000000000000000	avada	
Division of nighways				m.	Route	13 over BNSF Railroad near Maratho	an.		Date	11/	10/09
ROUTE331	DES	SCRI	PTION	ļ	riodio	Drive Drive	L	OGGI	ED BY	K	EG
SECTION	and the state of t	_ 1	OCAT	ION ,	Mario	n, SECS. 10SW & 15NW, TWP, 9S,	RNG. 2	E			
COUNTY Williamson DF	RILLING	MEI	THOD	V alentario	CI	ME 55LC w/HSA HAMMER	TYPE)	Aut	omatic	
STRUCT, NO.		D	В	Ü	M	Surface Water Elev.	ft	D	В	U	M
Station		E	L	C	0	Stream Bed Elev.	_ ft	E	Ļ	C	0
4. A. 3W 35. 1. (4. 80 80 80 80		P	O W	S	s			P	W	S	S
Station 47/5±20.60		Ĥ	s	Qu	Ť	Groundwater Elev.:	4 T		S	Qu	Ī
BORING NO. SB-7 Station 1745+29.69 Offset 29.01ft Rt		757				First Encounter 425.2 Upon Completion 429.2	-#₹				
Ground Surface Elev. 446.2	ft	(ft)	(/6")	(tsf)	(%)	After - Hrs	ft	(ft)	(/6")	(tsf)	(%)
GRASS, TOPSOIL, & CRUSHED			<u>adianan'i Ari</u>	l'ince		CLAY: Grayish brown and brown,					
ROCK - 12 inches	445 20	3-4				trace to some sand		V.			
No Recovery			3			(A-7) (continued)	424 70		1		
on the Wilsenson Hermanian		(8/4/5)	3	1 -	1	SANDY CLAY: Brown, trace fine gravel		Ngs Carrie	1	<0.25	25
			3		1			\$300 PERSON	1	Р	
	443.20	-			Aman	(A-4)		Similar			
CLAY: Grayish brown, trace sand		***************************************			1			222			
(A-7)			3		<u> </u>			.36.6	1		برينين
		-	3	2.5	26				2	0.9	14
		-5	3	P				25	3	В	
MENNERS STEP	440,70			İ			420.70		AM sec		
SILTY CLAY: Grayish brown, trace sand			11	l	1	SANDY CLAY: Brown, trace fine gravel			2		
(A-6)			1	0.5	31	(A-6)			3	2.0	20
•	. 4		1	D.0	91				5	2.0 P	Z.U
	400 00		36.		+		440.00	,			
CLAY: Gray, trace sand	430.20					CLAY: Brown, some sand	418.20	is the second			
(A-7)		7	3			(A-7)		عن س نيو	2		Á
	ě		4	2.0	25			-	3	1.3	18
		-10	4	В				-30	5	В	
	435.70							1200			
SILTY CLAY: Grayish brown and			100								
brown, some sand (A-7)		-	1					THE STATE OF THE S			
(Ant)	,		2	0.8	23	CLAYEY SHALE: Gray	414.40				
			3	В	<u> </u>			-			
araz a seren ere ere	433,20										
CLAY: Grayish brown and brown, trace to some sand		-	2					-	14		
(A-7)	*		3	1.1	21			-	20	4.5	13
and state.			3	В	5.			-35	47	P	3.52
	4	-15		1997			8	-35			
		-									
Becomes brown, trace fine		-	WH	ĺ		1					
gravel	X	7	2	1.0	26						
	-		3	В	<u></u>						
	4										
		لندنو		200							4
	ř		WH	L	L	Very hard drilling at 38.5 feet.			50/3"	-	12
			2	0.8	24				50/1"/		
		-20	3	В	1	N		-40			

The Unconfined Compressive Strength (UCS) Fallure 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)



SOIL BORING LOG

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Date 11/10/09
IL Route 13 over BNSF Railroad near Marathon

E 331 DESCRIPTION Drive LOGGED BY KEG

LOCATION Marion, SECS, 10SW & 15NW, TWP, 9S, RNG, 2E

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

COUNTY Williamson DRILLING METHOD Automatic DEPT U S STRUCT, NO. В Surface Water Elev. L O W 0 Stream Bed Elev. S Groundwater Elev.: BORING NO. Н Qu First Encounter Station 1745+29.69 Offset 29.01ft Rt **Upon Completion** 429.2 ft ∑ Ground Surface Elev. 446.2 (ft) (/6") (tsf) (%) After ___ Hrs.

CLAYEY SHALE: Gray (continued) Extremely hard drilling at 40 to 41 feet.

> 402.30 50/3" - 14 50/2" -45

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, IL.
ROCKOFORD, IL. # EPORTAL, IL. # OFLEGAG, IL.

FILE NAME =	USER NAME = Gary Davis	DESIGNED - JMW	REVISED -
98W991-98859-917-Roringe dan		CHECKED - REB	REVISED -
	PLOT SCALE = 1.0000 '/ IN.	DRAWN - AJK	REVISED -
	PLOT DATE = 12/7/2011	CHECKED - REB	REVISED -