



SOIL BORING LOG

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ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG Date 11/11/09

SECTION LOCATION Marion, SECS. 10SW & 16NW, TWP. 9S, RNG. 2E

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

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
BORING NO. SB-19					Surface Water Elev. _____ ft				
Station 753+52.1					Stream Bed Elev. _____ ft				
Offset 54.70ft RI					Groundwater Elev.: _____ ft				
Ground Surface Elev. 446.73 ft	(ft)	(/6")	(tsf)	(%)	First Encounter 425.7 ft	(ft)	(/6")	(tsf)	(%)
					Upon Completion 433.7 ft				
					After _____ Hrs. _____ ft				
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches					425.73				
CLAYEY SILT: Brown (A-4)	4	3	0.8	24	CLAYEY SHALE: Brown	27			
	3	3	B			50/5"	-	17	
	3					50/3"			
CLAY: Grayish brown and brown (A-7)	4	5	1.8	27	Extremely hard drilling at 22.5 and 25 feet.	29			
	5	6	B			50/4"	-	14	
	6					50/3"			
SILTY CLAY: Grayish brown and brown (A-6)	3	3	1.2	24					
	3		B						
Trace sand	2	3	0.9	23		40			
	3	4	B			50/3"	-	17	
	4					50/2"			
CLAY: Gray and brown, trace to some sand (A-7)	2	2	0.9	21					
	3		B						
Becomes brown, some sand	3	3	1.0	25	Becomes gray	412.93			
	3	3	B			50/3"	-	16	
	3					50/1"			
	6	3	1.6	22					
	7		B						
	5		0.8	40					
			P						
With coarse gravel and clayey shale									

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)



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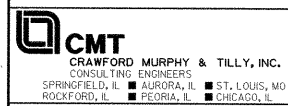
ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG Date 11/5/09

SECTION LOCATION Marion, SECS. 10SW & 16NW, TWP. 9S, RNG. 2E

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

STRUCT. NO.	DEPT	BLOW	UCS	MOIST	Surface Water Elev.	DEPT	BLOW	UCS	MOIST
Station	H	S	Qu	T	ft	H	S	Qu	T
BORING NO. SB-20					Surface Water Elev. _____ ft				
Station 754+11.2					Stream Bed Elev. _____ ft				
Offset 63.10ft LI					Groundwater Elev.: _____ ft				
Ground Surface Elev. 447.19 ft	(ft)	(/6")	(tsf)	(%)	First Encounter 430.2 ft	(ft)	(/6")	(tsf)	(%)
					Upon Completion 441.2 ft				
					After _____ Hrs. _____ ft				
GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches					426.69				
FILL: Brown clay, some sand, trace rock (A-7)	3	2	1.0	23	CLAYEY SHALE: Brown	7			
	3	3	P			10	1.8	16	
						11	S/5		
CLAY: Grayish brown and brown (A-7)	3	5	2.9	25		22			
	5	6	B			50/6"	-	15	
	6					50/2"			
SILTY CLAY: Brown (A-6)	1	2	0.8	23		37			
	3		B			50/3"	-	16	
						50/1"			
SILTY CLAY: Brown, some sand (A-7)	2	3	0.9	21	Becomes gray	44			
	3	3	B			50/2"	-	12	
	3					50/2"			
CLAY: Brown and grayish brown, trace to some sand, trace gravel (A-7)	1	2	1.1	21					
	4		B						
Becomes brown and gray, some sand	2	3	1.3	20		413.29			
	3	5	B			50/3"	-	14	
	5					50/2"			
SANDY CLAY: Brown, trace to some fine gravel (A-6)	WH	WH	-	30					
	4								
Some coarse gravel	4	3	-	16					
	8								

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)



FILE NAME =	USER NAME =	DESIGNED - SF	REVISED -
\\idot\0906683\draw\cadd\sheet\struct	al plans\marathon dr bridge\marathon_final	CHECKED - BORING WLB: 2.dgn	REVISED -
PLOT SCALE =	DRAWN - GLD	CHECKED - SF	REVISED -
PLOT DATE =			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STRUCTURE NO. 100-0095 (W.B.) & 100-0096 (E.B.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1X-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	239
CONTRACT NO. 98859			ILLINOIS FED. AID PROJECT	

SHEET NO. 32 OF 32 SHEETS