

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774		EFFINGHAM	344	124D
SHEET NO. 9 OF 14 SHEETS				
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT				
* 107WRS-1, 107BY, 107BY-1 & 107B-2				
CONTRACT NO. 34827				

Illinois Department of Transportation
SKS ENGINEERS, INC.
SOIL BORING LOG
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Date 04/23/2001

ROUTE IL Rt. 33 DESCRIPTION Retaining Wall LOGGED BY T. Skinner/D. Baldwin
SECTION 107 WRS-1 LOCATION Effingham SEC. TWP. RNG. PM
COUNTY Effingham DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
		E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
		P	O	S	I	Groundwater Elev.:	ft	P	O	S	I
		T	W	S	S	First Encounter	Dry	T	W	S	S
		H	S	Qu	T	Upon Completion	25.5	H	S	Qu	T
		(ft)	(/6")	(tsf)	(%)	After 24 Hrs	ft	(ft)	(/6")	(tsf)	(%)
SILTY CLAY LOAM - Reddish		4			15			60+	8.2	8	
Brown, moist, firm, low-medium plasticity, trace sand, trace gravel, organics - A-6		3									
		4									
		8	3.2		15	- gray	22.5	20	3.9	11	
SILTY CLAY LOAM - Mottled Brown-Gray, moist, stiff-very stiff, low plasticity, trace sand, trace gravel - A-6		7						35			
		9						25+			
		6			11			7	6.2	9	
SANDY CLAY LOAM - Brown, moist, very stiff, low plasticity, trace sand, trace gravel - A-6		8				- rock encountered	26.5	34			
		8						26+			
		5	1.2		16			8	3.2	16	
		6						32			
		8						28+			
		9.5									
SILTY CLAY LOAM - Brown, moist, hard, low plasticity, trace sand, trace gravel - A-6		-10			6	SANDSTONE AND SHALE - flags	31	8		14	
		14						16			
		37						29			
		23+									
		23			7			17		13	
		40						33		60+	
		20+									
		14.5				SHALE - Gray, moist, weathered					
- mottled brown-gray		-15			8			-35		60+	8
		60+									
					9						
										60+	
		20			5.1						18
		60+									
		-20						-40		60+	
		25									

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 137 (3/01)

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SECTION 107 WRS-1 LOCATION Effingham SEC. TWP. RNG. PM
COUNTY Effingham DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
		E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
		P	O	S	I	Groundwater Elev.:	ft	P	O	S	I
		T	W	S	S	First Encounter	Dry	T	W	S	S
		H	S	Qu	T	Upon Completion	25.5	H	S	Qu	T
		(ft)	(/6")	(tsf)	(%)	After 24 Hrs	ft	(ft)	(/6")	(tsf)	(%)
		41			12			60+			
END OF BORING @ 41 ft.											
Boring backfilled with spoil and capped with concrete upon completion											

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BBS 137 (3/01)

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SOIL BORING LOG
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ROUTE IL Rt. 33 DESCRIPTION Retaining Wall LOGGED BY T. Skinner/D. Baldwin
SECTION 107 WRS-1 LOCATION Effingham SEC. TWP. RNG. PM
COUNTY Effingham DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Safety

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
		E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
		P	O	S	I	Groundwater Elev.:	ft	P	O	S	I
		T	W	S	S	First Encounter	Dry	T	W	S	S
		H	S	Qu	T	Upon Completion	15.8	H	S	Qu	T
		(ft)	(/6")	(tsf)	(%)	After 24 Hrs	ft	(ft)	(/6")	(tsf)	(%)
VERY SILTY CLAY LOAM -		5			18	plasticity, trace sand, trace gravel - A-6		60+	2.5	12	
Gray-Brown, moist, firm, low-medium plasticity, trace sand, trace gravel, organics - A-6		5									
		2				- gray					
		11			10			25		9	
SILTY CLAY LOAM - Mottled Brown-Gray, moist, hard, low plasticity, trace sand, trace gravel - A-6		15						34			
		20						26+			
		4.5						24.5			
SANDY CLAY LOAM - Brown-Gray, moist, hard, low plasticity, trace gravel - A-4		-5			9	SHALE	-25	60+		14	
		12									
		26									
		28									
		7									
CLAYEY SAND - Brown, moist very dense, low plasticity, trace gravel - A-2-6		10	5.0		9			60+		12	
		24									
		8									
SILTY CLAY LOAM - Mottled Gray-Brown, moist, hard, low plasticity, trace-little sand, trace gravel - A-6		34									
		10									
		-10						-30		60+	
		18									
		24									
		36+									
		31									
END OF BORING @ 31 ft.											
Boring Backfilled with spoil and capped with concrete cylinder upon completion											
		19									
		30	2.6		11						
		30+									
		-15						-35			
- gray		19									
- brown		24									
		34									
		17.5									
		12									
SILTY SAND - Brown, moist, very dense, fine, trace gravel, - brown - A-2-6		24	1.0		13						
		31									
SILTY CLAY LOAM - Brown-Gray, moist, hard, low		-20						-40			
		26									

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS 137 (3/01)

SOIL BORINGS LOGS
ILLINOIS ROUTE 32/33
F.A.P. ROUTE 774
SECTION 107 WRS-1, 107BY,
107BY-1 & 107B-2
EFFINGHAM COUNTY
RETAINING WALL
STA. 1026+03.00 LT. TO STA. 1033+86.00 LT.
STRUCTURE NUMBER 025-W008