

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
774	EFFINGHAM	344	1240
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			
* 107WRS-1, 107BY, 107BY-1 & 107B-2			
CONTRACT NO. 94827			

SHEET NO. 9
OF 14 SHEETS

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.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO. B-6	P	O	S	I	Stream Bed Elev.	P	O	S	I
Station 1027+15	T	W	S		ft	T	W	S	
Offset 80' LT	H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
Ground Surface Elev. 584.0	(ft)	(/6")	(tsf)	(%)	First Encounter	(ft)	(/6")	(tsf)	(%)
					Upon Completion				
					After 24 Hrs				
SILTY CLAY LOAM - Reddish	4					60+	8.2	8	
Brown, moist, firm, low-medium plasticity, trace sand, trace gravel, organics - A-6	3		15						
	4								
SILTY CLAY LOAM - Mottled Brown-Gray, moist, stiff-very stiff, low plasticity, trace sand, trace gravel - A-6	7	3.2	15		22.5	20	3.9	11	
	8								
	9								
SANDY CLAY LOAM - Brown, moist, very stiff, low plasticity, trace sand, trace gravel - A-6	5		11		26.5	7	6.2	9	
	6								
	8								
	5	1.2	16			8	3.2	16	
	6								
	8								
	9.5								
SILTY CLAY LOAM - Brown, moist, hard, low plasticity, trace sand, trace gravel - A-6	-10		8		31	8		14	
	37					16			
	23+					29			
	23					17		13	
	40		7			60+			
	20+								
	14.5								
- mottled brown-gray	-15		8	9		-35	80+	8	
	60+								
	20		5.1	9			60+	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.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO. B-6-2	P	O	S	I	Stream Bed Elev.	P	O	S	I
Station 1027+15	T	W	S		ft	T	W	S	
Offset 50' LT	H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
Ground Surface Elev. 585.0	(ft)	(/6")	(tsf)	(%)	First Encounter	(ft)	(/6")	(tsf)	(%)
					Upon Completion				
					After 24 Hrs				
			60+	12					
END OF BORING @ 41 ft.									
Boring backfilled with spoil and capped with concrete upon completion									

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SKS ENGINEERS, INC.
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.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
BORING NO. B-7	P	O	S	I	Stream Bed Elev.	P	O	S	I
Station 1026+50	T	W	S		ft	T	W	S	
Offset 50' LT	H	S	Qu	T	Groundwater Elev.:	H	S	Qu	T
Ground Surface Elev. 574.0	(ft)	(/6")	(tsf)	(%)	First Encounter	(ft)	(/6")	(tsf)	(%)
					Upon Completion				
					After 24 Hrs				
VERY SILTY CLAY LOAM - Gray-Brown, moist, firm, low-medium plasticity, trace sand, trace gravel, organics - A-6	5					60+	2.5	12	
	5								
SILTY CLAY LOAM - Mottled Brown-Gray, moist, hard, low plasticity, trace sand, trace gravel - A-6	11					25		9	
	15					34			
	20					26+			
	4.5					24.5			
SANDY CLAY LOAM - Brown-Gray, moist, hard, low plasticity, trace gravel - A-4	-5		9		28	-25	80+	14	
	12								
	26								
	28								
CLAYEY SAND - Brown, moist, very dense, low plasticity, trace gravel - A-2-6	7		5.0	9		8	60+	12	
	10								
	24								
	34								
SILTY CLAY LOAM - Mottled Gray-Brown, moist, hard, low plasticity, trace little sand, trace gravel - A-6	-10		10		31	-30	80+	11	
	18								
	24								
	36+								
	19		2.6	11					
	30								
	30+								
	19								
- gray	-15								
- brown	19					-35			
	24								
	34								
	17.5								
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	19.5								
	-20					-40			

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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