STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 327	(51-23) B-3	LAWRENCE	56	44
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 27
29 SHEETS

Contract No. 94967

Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG

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Date 5/2/06

ROUTE FAP 327 (US 50) DESCRIPTION Embarras River LOGGED BY E. Sandschafer

SECTION (51-23)B-3 LOCATION , SEC. 36, TWP. 4 N, RNG. 12 W, 3 PM

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 051-0011
Station 554+17

BORING NO. 1
Station 551+52
Offset 9.00ft Rt
Ground Surface Elev. 434.78 ft

Surface Water Elev. 406.68 ft
Stream Bed Elev. 399.08 ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Washed ft
After ___ Hrs. samples ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
2" Asphalt on 10" Concrete pavement.					
6" Aggregate subbase.	433.78				
Very stiff, damp, brown mottled gray, CLAY w/some Silt.	433.28		3 5 7	2.4 B	17
		-5	2 4 5	1.2 B	19
			2 4 5	2.8 B	22
Stiff, damp, tan mottled brown, SILTY CLAY.	425.28	-10	2 5 7	1.4 B	20
			3 5 14	1.8 B	18
Hard, moist, tan to gray, SILTY CLAY SHALE, pokerchipped. Samples re-assembled to test Qu.	419.78	-15	15 25 36	4.4 S	10
			22 50/5" 50/3"	5.4 S	12
	415.28	-20	47		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very dense, moist, gray, SILTY CLAY SHALE, pokerchipped. Sample powdered, unable to test Qu. (continued)	414.48		50/2" 50/1"		7
Borehole continued with rock coring.		-25			
		-30			
		-35			
		-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)

Illinois Department of Transportation
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ROCK BORING LOG

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Date 5/2/06

ROUTE FAP 327 (US 50) DESCRIPTION Embarras River LOGGED BY E. Sandschafer

SECTION (51-23)B-3 LOCATION , SEC. 36, TWP. 4 N, RNG. 12 W, 3 PM

COUNTY Lawrence CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 051-0011
Station 554+17

BORING NO. 1
Station 551+52
Offset 9.00ft Rt
Ground Surface Elev. 434.78 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 419.78 ft
Begin Core Elev. 414.48 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, SILTY CLAY SHALE, slightly weathered.	414.48			86	86	0.9	
Rock core B1a 25.0' to 25.5' = 24 tsf	409.48	-25					
Gray, CLAY SHALE, slightly weathered.				100	95	0.7	
Rock core B1b 30.0' to 30.5' = 11 tsf		-30		86	80	0.8	
Gray, SANDSTONE, slightly weathered.	400.78						
Rock core B1c 34.0' to 34.7' = 113 tsf	400.08	-35					
Gray, CLAY SHALE, severely weathered.				100	43	0.8	
Gray, CLAY SHALE, slightly weathered.	395.78						
Rock core B1d 40.0' to 40.3' = 52 tsf	394.48	-40					

Color pictures of the cores
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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ROCK BORING LOG

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Date 5/2/06

ROUTE FAP 327 (US 50) DESCRIPTION Embarras River LOGGED BY E. Sandschafer

SECTION (51-23)B-3 LOCATION , SEC. 36, TWP. 4 N, RNG. 12 W, 3 PM

COUNTY Lawrence CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 051-0011
Station 554+17

BORING NO. 1
Station 551+52
Offset 9.00ft Rt
Ground Surface Elev. 434.78 ft

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 419.78 ft
Begin Core Elev. 414.48 ft

Extent of exploration.

Benchmark: BM 204 Chiseled square on SE corner of existing bridge, Sta 556+26, 18.6' Lt = 434.66' Provided by Program Development.

Stationing of borings based on center of existing bridge = 554+17.

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
-45					
-50					
-55					
-60					

Color pictures of the cores
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BORING LOGS
F.A.P. RT. 327 - SEC. (51-23)B-3
LAWRENCE COUNTY
STATION 553+95.50
STRUCTURE NO. 051-0063