STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 653	04-00256 -00-BR	SHELBY	40	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 13
14 SHEETS

Contract No. 95555

Illinois Department of Transportation
Division of Highways
District 7 – Materials

SOIL BORING LOG

Page 1 of 2
Date 9/21/05

ROUTE FAS 653 (CH 6) DESCRIPTION Richland Creek LOGGED BY E. Sandschafer

SECTION 04-00256-00-BR LOCATION NW 1/4, SEC. 34, TWP. 9 N, RNG. 4 E, 3 PM

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

STRUCT. NO. 087-3012
Station
BORING NO. 4
Station 22+31
Offset 7.00ft Lt
Ground Surface Elev. 557.20 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 534.92 ft
Groundwater Elev.:
First Encounter 537.7 ft
Upon Completion Washed ft
After Hrs. samples ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
1" oil & chip roadway surface.	557.57				
Soil cement base.	555.90				
Very stiff to medium, damp, red mottled gray, CLAY.			3		
			5	2.5	16
			7	B	
		-5	3		
			4	0.8	16
Low recovery, Sandstone fragment in shoe.			4	B	
			2		
			3		15
			3		
	541.70				
Medium to stiff, damp, gray, SANDY CLAY w/ trace fine gravel.		-10	2		
			3	1.0	17
			4	PP	
	545.20				
Medium, damp, dark gray, SILTY CLAY.			0		
			2	0.7	23
			2	B	
		-15	0		
			1	0.6	25
			2	B	
	540.20				
Soft, very damp, dark gray, LOAM.			1		
			1	0.3	22
			2	B	
	537.70				
		-20	1		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft, wet, gray, SANDY LOAM. (continued)	536.50		2	0.2	20
			3	B	
Gray, fine grained, SAND. 15% passing #200 sieve.	535.20				
Soft, very damp, gray, SANDY LOAM w/ many wood fragments.			0		
			2	0.3	50
			6	B	
	533.90				
Soft, gray, SANDSTONE.					
		-25	42		
	532.20				
Very dense, moist, gray, CLAY SHALE.	531.70		50/4"		11
			50/2"		
Borehole continued with rock coring.					
		-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)

BBS, from 137 (Rev. 8-99)

Latitude N 39 deg 36.53 min, Longitude W 88 deg 45.067 min, Map Datum NAD 84

Illinois Department of Transportation
Division of Highways
District 7 – Materials

ROCK BORING LOG

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Date 9/21/05

ROUTE FAS 653 (CH 6) DESCRIPTION Richland Creek LOGGED BY E. Sandschafer

SECTION 04-00256-00-BR LOCATION NW 1/4, SEC. 34, TWP. 9 N, RNG. 4 E, 3 PM

COUNTY Shelby CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 087-3012
Station
BORING NO. 4
Station 22+31
Offset 7.00ft Lt
Ground Surface Elev. 557.20 ft

CORING BARREL TYPE & SIZE NW, conv def bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 533.90 ft
Begin Core Elev. 531.70 ft

Description	Elev.	DEPTH (ft)	COREE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, slightly weathered, CLAY SHALE w/ trace Sand.	531.70			100	73	1	
		-30					
Hard, gray, SANDSTONE. Not easily scratched.	526.70			100	23	0.5	
	524.70						
Soft, gray, CLAY SHALE.	523.90						
Soft, gray, SANDSTONE. Scratches easily.	522.20	-35					
Gray, SANDY CLAY SHALE.				100	80	0.6	
		-45					
Extent of exploration.	515.70						
		-55					

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

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 7 – Materials

SOIL BORING LOG

Page 1 of 2
Date 11/20/07

ROUTE FAS 653 (CH 6) DESCRIPTION Richland Creek LOGGED BY E. Sandschafer

SECTION 04-00256-00-BR LOCATION NW 1/4, SEC. 34, TWP. 9 N, RNG. 4 E, 3 PM

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

STRUCT. NO. 087-3012
Station
BORING NO. 5 New E Abut
Station 22+00 ?
Offset 40.00ft Rt
Ground Surface Elev. 549.16 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 534.92 ft
Groundwater Elev.:
First Encounter 536.2 ft
Upon Completion Washed ft
After 24 Hrs. 541.2 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff, damp, brown, SANDY LOAM.					
			1		
			3	1.5	20
			6	PP	
	544.66				
Medium, damp, brown, SANDY LOAM.			3		
			9	0.5	17
			9	B	
			1		
			2	0.5	18
			2	B	
	539.66				
Soft, damp, dark brown, SANDY LOAM.			0		
			0	0.4	16
			2	S	
	537.16				
Very soft, wet, brown, SILTY LOAM.			0		
			2	0.1	21
	536.16		4	B	
Very loose, wet, fine grained, SAND.					
			0		
14% passing #200 sieve.			1		22
			2		
	532.16				
Very dense, moist, gray, SILTY CLAY SHALE.			0		
			5	3.1	20
			17	S	
		-20	50/5"		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Borehole continued with rock coring.	528.96		50/3"		
			50/2"		
		-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)

BBS, from 137 (Rev. 8-99)

Latitude N 39 deg 36.4577 min, Map Datum NAD 84
Latitude N 39 deg 36.4507 min, Longitude W 88 deg 45.137 min, Map Datum NAD 84

Note: Stations and offsets of soil borings are based on the existing alignment.

BORING LOGS
F.A.S. RTE. 653 - SEC. 04-00256-00-BR
SHELBY COUNTY
STATION 21+06.00
STRUCTURE NO. 087-3563