STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 328	(10BR-3) B-1	WAYNE	140	76
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 8
10 SHEETS

Contract #74040

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

Page 1 of 2

Date 8/18/05

ROUTE FAP 328 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschafer

SECTION (10BR-3)B-1 LOCATION Sec 26 - SW 1/4, Sec 27 - SE 1/4, SEC., TWP. 1 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 096-0022
Station 410+14

BORING NO. 1
Station 409+70
Offset 8.00ft Lt
Ground Surface Elev. 425.00 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 415.82 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 (%)
8 1/2" Asphalt.	424.30				
8 3/4" Concrete.	423.60				
Medium to soft, damp, brown, CLAY w/ trace sand & gravel.			2		
			2	1.0	16
			3	PP	
	420.00	-5	5		
Very dense, very moist, brown, SANDSTONE.			50/4"	0.3	19
			50/2"	B	
			50/4"		10
			50/1"		
			50/1"		
	415.00	-10	50/4"		10
Borehole continued with rock coring.			50/1"		
			50/1"		
		-15			
		-20			

Latitude N 38 deg 29.523 min., Longitude W 88 deg 24.166 deg. Map Datum WGS 84

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)

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

ROCK CORE LOG

Page 2 of 2

Date 8/18/05

ROUTE FAP 328 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschafer

SECTION (10BR-3)B-1 LOCATION Sec 26 - SW 1/4, Sec 27 - SE 1/4, SEC., TWP. 1 N, RNG. 7 E, 3 PM

COUNTY Wayne CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 096-0022
Station 410+14

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

Core Diameter 2.06 in
Top of Rock Elev. 420.00 ft
Begin Core Elev. 415.00 ft

BORING NO. 1
Station 409+70
Offset 8.00ft Lt
Ground Surface Elev. 425.00 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Brown, soft, SANDSTONE. Very easy to scratch, broke into 1/2" to 3" layers.	415.00			100	0	0.1	
		-15		100	0	0.2	
		-20		60	0	0.2	
	400.00	-25					
Extent of exploration.							
Benchmark: TBM RR spike in PP in SW quadrant (Point 1176) = 426.03'							
		-30					

Color pictures of the cores _____
Cores will be stored for examination until_____
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

SOIL BORING LOG

Page 1 of 1

Date 8/18/05

ROUTE FAP 328 (US 45) DESCRIPTION Un-named Stream LOGGED BY E. Sandschafer

SECTION (10BR-3)B-1 LOCATION Sec 26 - SW 1/4, Sec 27 - SE 1/4, SEC., TWP. 1 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 096-0022
Station 410+14

BORING NO. 2
Station 410+35
Offset 27.40ft Rt
Ground Surface Elev. 423.17 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 415.82 ft

Groundwater Elev.:
First Encounter 403.7 ft
Upon Completion 413.5 ft
After 96 Hrs. 413.5 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray, TOPSOIL.	422.67				
Stiff, damp, brown, CLAY w/ trace Sand and many hair roots.					
			3		
			22	1.1	14
			14	B	
	418.17	-5	4		
Stiff, damp, gray, SILTY CLAY LOAM.			5	1.9	18
			3	B	
	416.17		0		
Soft, very damp, gray, SILTY LOAM.			1	0.3	30
			1	B	
		-10	2		
			2	0.3	21
			2	B	
			1		
	410.17		2	1.0	22
Medium to stiff, damp, gray mottled red, CLAY w/ trace Silt.			2	B	
	408.17	-15	0		
Very soft, wet, gray, SANDY LOAM.	407.77		2	0.6	19
			3	B	
Medium, damp, gray, SANDY CLAY.			1		
			2	0.7	22
			3	B	
	403.67				
Medium, damp, dark brown, SILTY		-20	0		
CLAY w/ gray, Sand speck, high organics.	402.67		0	0.8	33
			2	PP	
Very loose, very wet, gray, fine grained, SAND. *10% passing #200 sieve.*					
	400.67		0		
Soft, damp, dark brown, SILTY LOAM.			1	0.3	33
			2	B	
	398.67				
Gray, fine grained, SAND. *11% passing #200 sieve.*		-25	2		
	397.67		3	0.9	15
Medium, damp, gray, SANDY CLAY.			4	B	
	396.17				
Medium to dense, wet, brown, fine grained, SAND w/ fine gravel. *7% passing #200 sieve.*			3		
	395.17		8		16
Gray to brown, fine grained, SAND w/ trace fine gravel. *6% passing #200 sieve.*			22		
		-30	7		
	392.67		15	1.4	16
Very dense, moist, gray, CLAY SHALE.			24	B	
		-35	24		
	387.37		50/5"		8
			50/4"		
Extent of exploration.					
Benchmark: TBM RR spike in PP in SW quadrant (Point 1176) = 426.03'					
		-40			

Latitude N 38 deg 29.555' min., Longitude W 88 deg 24.132 deg. Map Datum WGS 84

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)

DESIGNED	JJD
CHECKED	KLH
DRAWN	JJD
CHECKED	NJM

HORNER & SHIFRIN, INC.
ENGINEERS

BORING LOGS
F.A.P ROUTE 328 - SECTION (10BR-3)B-1
WAYNE COUNTY
STATION 410+21.00
STRUCTURE NO. 096-2010