SOIL BORING – ROCK CORE LOG

CONTRACT NO. 64671

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4505	5HR	ROCK ISLAND	139	90
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

P (IL 5)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 7/21/05

ROUTE FAP 308 DESCRIPTION P92-082-03 John Deere Road over IL 84, 3.25 m. W. of I-80 LOGGED BY W. Garza

SECTION 5 HR LOCATION Hampton Twp. - 32NE, SEC. , TWP. 18N, RNG. 1E

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.
Station

BORING NO. B-6
Station 392+44
Offset 38.00ft Lt Med CL
Ground Surface Elev. 637.5 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
crumbly, tan-brown SANDY LOAM				5
	635.00			
STIFF olive-green SILTY LOAM		3 5 8	1.0 S	20
	633.50			
	-5			
VERY STIFF mottled black,tan, green SILTY CLAY LOAM		5 4 6	2.5 B	13
	631.00			
STIFF, as above		5 4 6	1.3 B	15
	626.50			
	-10			
STIFF mottled rust, tan and brown SILT		3 6 8	1.3 S	17
	626.00			
As above		3 6 8	1.3 S	18
	623.50			
	-15			
STIFF gray-green CLAY LOAM		3 6 8	1.6 B	23
	621.00			
VERY STIFF tan, as above, 2" recov - due to timber intrusive		7 6 8	2.4 P	19
	618.50			
	-20			
MEDIUM mottled tan-green, SILTY LOAM TILL		2 4 6	0.8 P	15
	616.00			
VERY STIFF brown, tan-gray SHALEY CLAY		6 9 12	3.5 S	22
	613.50			
	-25			
VERY STIFF gray-black SHALEY CLAY		5 9 11	2.4 S	21
	611.00			
VERY STIFF gray black SHALE		7 15 26	3.4 S	13
	608.50			
	-30			
HARD gray-black "poker chip" SHALE		15 16 21	4.5 P	12
	606.00			
As above		22 60/6"		
	603.50			
Borehole continued with rock coring.				
	-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)

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ROCK CORE LOG

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SECTION 5 HR LOCATION Hampton Twp. - 32NE, SEC. , TWP. 18N, RNG. 1E

COUNTY Rock Island CORING METHOD

STRUCT. NO.
Station

BORING NO. B-6
Station 392+44
Offset 38.00ft Lt Med CL
Ground Surface Elev. 637.5 ft

CORING BARREL TYPE & SIZE

Core Diameter 1.5 in
Top of Rock Elev. 611.00 ft
Begin Core Elev. 603.50 ft

	DEPTH (ft)	CORE (ft)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Shale: dark gray, with "poker chip" laminations throughout.	-35	1	87	85	3.6	
End of Boring	598.50					
	-40					
	-45					
	-50					

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)

BBS, form 138 (Rev. 8-99)