BORING NO. PB-202A (1 OF 3)

Illinois Department of Transportation
Division of Highways
geotechnology

SOIL BORING LOG

Page 1 of 3
Date 3/28/02

ROUTE FAI 64 DESCRIPTION Trilevel Interchange LOGGED BY KMP

SECTION 81-2, 82R LOCATION East St. Louis, IL, SEC. 18, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger and Mud Rotary HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-0394
Station NA

BORING NO. PB-202A
Station 16+77
Offset 15.00ft right
Ground Surface Elev. 403.03 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter 375.0 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil - 12 inches	402.03				
Soft to stiff, brown, SILTY LOAM			1		
			1		26
			2		
			4		
			5		23
		-5	4		
	397.53				
Soft, grayish-brown, SILTY CLAY			1		
			1	*	39
			2		
	395.03				
Medium stiff, brown, SILT			2		
			3		26
		-10	4		
			1		
			2		34
			3		
	389.03		5		
Medium stiff, gray, SILTY CLAY LOAM			4	0.8	36
		-15	6	S	
	387.53				
Medium stiff to very soft, gray, SILT			3		
			4		
See Gradation Test Results			2		
with silty clay seams from 18.5 to 20 feet			2		
			2		34
		-20	1		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium stiff to very soft, gray, SILT (continued)			0		
			0	0.8	36
			1	S	
			0		
			0		32
		-25	1		
	377.53				
Medium stiff, gray, SILTY CLAY			0		
			0	0.8	47
			2	S	
	375.0▼				
Very soft to stiff, gray, SILT			0		
			0		
See Gradation Test Results		-30	1		
			2		
			7		
		-35	8		
	366.03				
Medium dense to dense, gray, FINE GRAINED SAND			6		
			5		
See Gradation Test Results		-40	9		

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)

* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

BORING NO. PB-202A (2 OF 3)

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Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter 375.0 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			8		
			16		
		-45	16		
			7		
			10		
		-50	11		
			9		
			13		
		-55	23		
			10		
			10		
		-60	11		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			4		
			10		
		-65	16		
			13		
			25		
		-70	23		
	331.03				
Medium dense, gray, MEDIUM GRAINED SAND			12		
			14		
		-75	15		
		-80			

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Groundwater Elev.:
First Encounter 375.0 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, gray, MEDIUM GRAINED SAND (continued)			4		
			7		
		-85	8		
		-90			
			4		
			5		
		-95	6		
		-100			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, gray, MEDIUM GRAINED SAND (continued)	299.03		50/4"		
Refusal. End of Boring		-105			
		-110			
		-115			
		-120			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

FILE NAME = 082-0394_76C47_S22_BOR-03.dgn	USER NAME = bhatta	DESIGNED -	REVISED -
		DRAWN - MK	REVISED -
	PLOT SCALE = 0:1 ':' / IN.	CHECKED - ATB	REVISED -
	PLOT DATE = 5/1/2009	DATE - 05/01/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 082–0394

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-1HBR	ST. CLAIR	93	63
		CONTRACT NO. 76C47		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		