## BORING LOG: B-416 (1 of 4)

## BORING LOG: B-416 (2 of 4)

SOIL BORING LOG

HSA with MR HAMMER TYPE

Surface Water Elev. <u>Unknown</u> ft Stream Bed Elev. <u>Unknown</u> ft

CME 75 / 80%

LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

Illinois Department of Transportation

82-1

St. Clair DRILLING METHOD

## BORING LOG: B-416 (3 of 4)

(P)	Illinois Depart of Transport	rtment ation			SOIL BORIN	G LOG	Page	<u>1</u> of <u>4</u>
	Division of Highways Geotechnology, Inc						Date	4/7/09
ROUTE	FAP 998	_ DESCRIPTION			Trilevel Interchanc	10	LOGGED BY	LAH
SECTION	82-1	LOCA	TION _	East St	Louis, IL, SEC. 7, TW	P. 2N, RNG, 9W		
COUNTY .	St. Clair DRI	LLING METHOD			HSA with MR	HAMMER TYPE	CME_75	/ 80%
Offset Ground Su TOPSOIL -	NA	D E I P C T V H S S T V (11)	C S V Qu	M 0 - S T (%)	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After	## ff ## ff (continued) 302	D B E L P O T W H S (ft) (/6")	U M C O S I S S T (#sf) (%)
	o medium stiff, grayish	410.00			SANDY LOAM See attached grain si distribution		3 3 2	22
brown, SAN	DY CLAY		5	23		387	2 6 -25 8	30
,				33	Medium dense, gray, GRAINED SAND, trace	FINE	10 12 12	
Very soft to and gray, S	o medium stiff, brown SILT		1 2 5	25			- 8 - 6 - 30 9	
				30	-			
			1 2	29	See attached grain si distribution	Ze	8 6	
Loose, tan,	SANDY LOAM	397.50	3	37			-33	
Very soft,	gray, CLAY	395.00	0	45			16 8 -40 3	

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 not measured due to sample disturbance

\*\* Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

Offset 4.54f	Left	1 1			Upon Completion ** ft	
Ground Surface Elev.	413.00 ft	(ft) (/6")	(tsf)	(%)	After Hrs** ff (fi) (/6") (tsf) (%	
Medium dense, gray, FINE	710.00	10.7		(-7	Medium dense, gray, FINE	4
GRAINED SAND, trace silt					GRAINED SAND, trace silt	
(continued)					(continued)	-
		. —		l	<b>1</b> − − 1   1	
					Dense to very dense, gray, FINE	
		-			GRAINED SAND, trace gravel	
					GRAINED SAND, trace gravel	
		8			- 20	
		13	ļ		20 21	-
				-		
		-45 13			65 Z/	
20		_				
				l		
				İ		
				İ		
				1		
				1		
		11			See attached grain size 17	
		10			distribution 30	
		-50 14		1	50/5"	
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-			l			
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1		10		<del> </del>		
		-55 14			-75	
		-33	<del> </del>	-	-73	
		$\dashv$	l			
<u> </u>						
			1			
		_	I	l l		

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 (AASH10 1206)

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

BBS, from 137 (Rev. 8-99)

(T) Illinois Departm	ent				SOIL BORING LOG		Page	3	of _
Division of Highways Geotechnology, Inc	JII				DOIL DOMINO LOO		Date	4/	7/09
ROUTE FAP 998 D	ESCRIPT	TION	-		Trilevel Interchange	LOGGED	BY		AH
SECTION 82-1	ι	OCATIO	Ν	East St	Louis, IL, SEC. 7, TWP. 2N, RNG, 9W				
COUNTY St. Cigir DRILLING	METHO	D .			HSA with MR HAMMER TYPE	CN	Æ 75	/ 8	30%
STRUCT. NO.         082-W310           Station         NA           BORING NO.         B-416           Station         64+85.22           Offset         4.54ft Left           Ground Surface Elev.         413.00           feature         413.00	D E P T H	B L O W S (/6")	U C S Qu (tsf)	M 0 1 S T	Surface Water Elev.	D E P T H	B L O W S (/6")	U C S Qu (fsf)	M 0  S T
Dense to very dense, gray, FINE GRAINED SAND, trace gravel and silt (continued)					distribution Dense to very dense, gray, FINE TO COARSE GRAINED SAND, with gravel, trace silt (continued)				
Dense to very dense, gray, FINE TO COARSE GRAINED SAND, with gravel, trace silf	00 -85					~105			
		14			Gravel, cobbles, and boulders	5.00	50/3"		
	-90	16 17				-110	/		
					CRYSTALLINE LIMESTONE - See affached rock core log	2.00			
	-95			-					

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 not measured due to sample disturbance
\*\* Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

Page <u>3</u> of <u>4</u>

<b>AECOM</b>
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USER NAME =	DESIGNED	-	PJL	REVISED -
	DRAWN	~	BRD	REVISED -
PLOT SCALE = 0:2 ':" / IN.	CHECKED	-	DDB	REVISED -
PLOT DATE = 6/27/2011	DATE	_	07-01-11	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

	BORING LOGS XXXV	F.A RT
	I-70E OVER I-55, CSX & KCS RAILROADS	7 S.i
SCALE:	SHEET S-224 OF S-234 SHEETS STA. TO STA.	FED

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	351
 S.N. (	082-0322 & S.N. 082-0324	CONTRACT	NO. 7	6C76
FED. RO	DAD DIST. NO. ILLINOIS FED. A	ID PROJECT	LUCY PRINCIPLE	