

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amphlett Court, Suite 204 Naperville, Illinois 60565 (630) 355-3838		SOIL BORING LOG		PAGE 1 of 3	
ROUTE <u>FAI 94 @ FAP 341</u>		DESCRIPTION <u>I-94/Stony Island Feeder Interchange Improvements #P-91-184-10</u>		DATE <u>12/28/2010</u>	
SECTION <u>1212B-1</u>		LOCATION <u>SEC. 11, 12, 13, & 14, TWP. 37 N., RNG. 14 E., 3rd P.M.</u>		LOGGED BY <u>DR</u>	
COUNTY <u>Cook</u>		DRILLING METHOD <u>Hollow Stem Auger/Rotary</u>		HAMMER TYPE <u>CME Automatic</u>	
STRUCT. NO. <u>SN 016-2436</u>		Surface Water Elev. <u>n/a</u>		DEPT H S Qu T	
Station		Stream Bed Elev. <u>n/a</u>		DEPT H S Qu T	
BORING NO. <u>S36-A</u>		Groundwater Elevation:		DEPT H S Qu T	
Station: <u>818+25</u>		First Encounter <u>n/a</u>		DEPT H S Qu T	
Offset: <u>2.5' Left</u>		Upon Completion <u>n/a</u>		DEPT H S Qu T	
Ground Surface Elev. <u>620.0</u>		After _____ Hrs. <u>n/a</u>		DEPT H S Qu T	
(ft)	(/6")	(tsf)	(%)	(ft)	(/6") (tsf) (%)
2.5" ASPHALT, 2.5" CONCRETE, 14.0" CRUSHED STONE					
618.4	11		115	3	113
7				7	
5	3.8B	13		9	3.8B 18
CLAY LOAM-brown & gray-medium dense (A-6) Fill					
6			105	3	104
6				5	
-5	6	2.6B	20	-25	6 2.6B 21
CLAY LOAM-brown & gray-very stiff (A-6) Fill					
3			109	5	89
3				7	
6	2.5B	19		9	2.7B 25
SILTY CLAY-dark brown & gray-very stiff (A-6)					
3			107	6	106
6				9	
-10	6	3.1B	18	-50	11 2.2B 22
CLAY-brown & gray-very stiff (A-6) Wet					
609.5				6	
6				9	
7	NP	11		-50	11 2.2B 22
SAND-brown-medium dense (A-3) Fill					
607.0				15	107
3			109	18	5.5S 21
5				-55	22 14.1% 21
-15	7	2.2B	20	-75	15 5.0B 13
CLAY LOAM-brown & gray-medium dense (A-6) Fill					
8				8	124
4				13	
6			22	-80	15 4.9B 13
4				6	118
6				8	
-20	6		26	-60	9 3.4B 15

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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Station		Stream Bed Elev. <u>n/a</u>		DEPT H S Qu T	
BORING NO. <u>S36-A</u>		Groundwater Elevation:		DEPT H S Qu T	
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Offset: <u>2.5' Left</u>		Upon Completion <u>n/a</u>		DEPT H S Qu T	
Ground Surface Elev. <u>620.0</u>		After _____ Hrs. <u>n/a</u>		DEPT H S Qu T	
(ft)	(/6")	(tsf)	(%)	(ft)	(/6") (tsf) (%)
CLAY-gray-stiff to very stiff (A-6)					
5			108	10	126
7				15	
-45	10	2.5B	21	-65	17 8.9B 12
CLAY LOAM-gray-very stiff to hard (A-6)					
6			106	11	126
9				15	
-50	11	2.2B	22	-70	20 8.0B 12
SILTY CLAY LOAM-gray-dense (A-4)					
15			107	9	122
18	5.5S	21		12	
-55	22	14.1%	21	-75	15 5.0B 13
CLAY LOAM-gray-very stiff to hard (A-6)					
6			118	8	124
8				13	
-60	9	3.4B	15	-80	15 4.9B 13

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Ground Surface Elev. <u>620.0</u>		After _____ Hrs. <u>n/a</u>		DEPT H S Qu T	
(ft)	(/6")	(tsf)	(%)	(ft)	(/6") (tsf) (%)
SILTY LOAM-gray-very dense (A-4)					
518.0					
CLAY LOAM-gray-very stiff to hard (A-6)					
9			113	50/4'	
12					
-85	14	3.8B	18	515.0-105	NP 13
SILTY LOAM with Fractured Rock-gray-very dense (A-4)					
End Of Boring @ -105.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' Of 4.0" Casing Used					
533.0					
SILTY LOAM-gray-very dense (A-4)					
22					
39					
-90	50/4'	NP	18	-110	
CLAY LOAM-gray-hard (A-6)					
13			124		
23					
-95	28	7.2B	14	-115	
SILTY LOAM-gray-very dense (A-4)					
50/5'			117		
13					
-100	6	3.1B	16	-120	

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2/21/09 PM

3/29/2013

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BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

USER NAME =	DESIGNED - TL	REVISED -
PLOT SCALE =	CHECKED - BAK	REVISED -
PLOT DATE = 03/29/2013	DRAWN - TL	REVISED -
	CHECKED - BAK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I
STRUCTURE NO. 016-2470
SHEET NO. S-39 OF S-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-059-BR	COOK	631	414
CONTRACT NO. 60J12				
ILLINOIS FED. AID PROJECT				