

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838		SOIL BORING LOG		PAGE 1 of 4	
ROUTE <u>FAP 353 (US 30)</u>		DESCRIPTION <u>US Route 30 @ EJ&amp;E/CN Railroad, IDOT Job No. D-91-046-12</u>		DATE <u>DR</u>	
SECTION <u>11-Y-A</u>		LOCATION <u>SEC 20 &amp; 29, T 35 N, R 15 E, 3rd PM</u>		LOGGED BY <u>1/30-31/2012</u>	
COUNTY <u>Cook</u>		DRILLING METHOD <u>Hollow Stem Auger/Rotary</u>		HAMMER TYPE <u>Diedrich Automatic</u>	
STRUCT. NO. <u>---</u>		Surface Water Elev. <u>n/a</u>		DEPT H	
Station <u>---</u>		Stream Bed Elev. <u>n/a</u>		BLOW S	
BORING NO. <u>BS-10</u>		Groundwater Elevation:		UCS	
Station <u>282+75</u>		First Encounter <u>626.5</u>		MOIST	
Offset <u>22.5' Right</u>		Upon Completion <u>n/a</u>		Qu	
Ground Surface Elev. <u>632.5</u>		After <u>   </u> Hrs. <u>   </u>		(ft) (/6") (tsf) (%)	
10.0" TOPSOIL-black		631.7		AS - 24	
SILTY CLAY-brown & gray-very stiff (A-6)		5		89	
629.5		7		2.48 26	
SANDY CLAY-brown & gray-stiff (A-6)		3		2	
4		4		3	
-5 4		1.9P		19	
▼626.5		2		2	
SANDY LOAM-brown & gray-loose (A-2)		2		2	
624.5		4		NP 19	
2		2		2	
3		2		2	
-10 5		NP		23	
SILTY LOAM-gray-loose to medium dense (A-4)		2		2	
2		2		2	
3		NP		27	
600.5		2		2	
SAND with Gravel-gray-loose (A-1)		2		2	
3		2		2	
-15 6		NP		29	
3		2		2	
5		2		2	
6		NP		25	
595.5		2		2	
SAND-gray-dense (A-3)		2		2	
3		2		2	
4		2		2	
-20 5		NP		21	

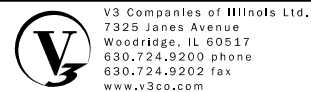
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)  
NR-No Recovery

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COUNTY <u>Cook</u>		DRILLING METHOD <u>Hollow Stem Auger/Rotary</u>		HAMMER TYPE <u>Diedrich Automatic</u>	
STRUCT. NO. <u>---</u>		Surface Water Elev. <u>n/a</u>		DEPT H	
Station <u>---</u>		Stream Bed Elev. <u>n/a</u>		BLOW S	
BORING NO. <u>BS-10</u>		Groundwater Elevation:		UCS	
Station <u>282+75</u>		First Encounter <u>626.5</u>		MOIST	
Offset <u>22.5' Right</u>		Upon Completion <u>n/a</u>		Qu	
Ground Surface Elev. <u>632.5</u>		After <u>   </u> Hrs. <u>   </u>		(ft) (/6") (tsf) (%)	
SAND-gray-dense (A-3)		590.5		3	
SAND & GRAVEL-gray-medium dense (A-1)		16		12	
8		16		16	
-45 7		NP		15	
585.5		-65 19		NP 26	
SAND-gray-dense (A-3)		565.5		6	
12		11		119	
18		11		11	
-50 20		NP		24	
-70 15		2.48		19	
SILTY CLAY-gray-very stiff (A-6)		560.5		23	
14		23		23	
18		44		44	
-55 21		NP		22	
-80 48		NP		21	
SAND-gray-dense (A-3)		595.5		7	
15		24		24	
18		35		35	
-40 15		NP		24	

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SAND-gray-very dense (A-3)		550.5		50/6"	
SILTY LOAM to LOAM-gray-very dense (A-4)		530.5		1.89	
CLAY LOAM-gray-very stiff (A-6)		19		50/6"	
24		-85 50/3.5+P		16	
-65 19		NP		26	
545.5		-105		1.9S 10	
SAND-gray-very dense (A-3)		565.5		38	
15		119		50/3"	
25		-90 34		1.38 15	
-90 34		1.38		15	
SILTY CLAY LOAM-gray-very dense (A-4)		521.5		4.5+P 13	
520.5		521.5		520.5	
Drillers Observation: Apparent Bedrock.		520.5		520.5	
SILTY LOAM to LOAM-gray-very dense (A-4)		535.5		RUN 1	
18		120		RUN 1	
35		-95 50/3.0B		15	
-95 50/3.0B		15		15	
535.5		24		24	
SILTY LOAM to LOAM-gray-very dense (A-4)		50/6"		35	
35		-80 48		NP 21	
-100		NP		15	

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USER NAME =	DESIGNED - WJV	REVISED
PLOT SCALE =	CHECKED - CJB	REVISED
PLOT DATE =	DRAWN - WJV	REVISED
	CHECKED - CJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 016-1350  
SHEET NO. 30 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	215
CONTRACT NO. 60R19				
ILLINOIS FED. AID PROJECT				