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**SOIL BORING LOG**

DATE 2/29/2012

LOGGED BY MD

JOB NUMBER P-91-186-06 GSI JOB No. 08015

ROUTE I-294 & I-57 DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)

SECTION - LOCATION SEC 12, T 36 N, R 13 E, SE 1/4, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Safety

STRUCT. NO. -

Station -

BORING NO. LTB-07

Station: 12844.38

Offset: 138.0' Left

Ground Surface Elev. 806.6

Description	Depth (ft)	Blow Count (blows/ft)	Moisture (%)	SPT (blows)	Notes	Depth (ft)	Blow Count (blows/ft)	Moisture (%)	SPT (blows)	Notes
Surface Water Elev.					n/a					
Stream Bed Elev.					n/a					
Groundwater Elevation:										
First Encounter					585.6					
Upon Completion					586.1					
After _____ Hrs.										
Clayey TOPSOIL—dark brown to black	0	AS	-	17						
	2									
CRUSHED STONE, BRICK & SAND—medium dense (F1)	10									
	8	NP		16						
Silty SAND, GRAVEL & FRACTURED ROCK—gray—very dense (A-2)										
	2			16						
SILTY CLAY—brown & gray—stiff (A-6)	2									
	2									
	-5	4	1.58	20						
					581.1					
	9									
	17									
SILT—gray—dense (A-4)	21	NP		17						
	16									
	22									
	-10	22	NP	19						
					576.6					
End Of Boring @ -30.0' Hollow Stem Augers Diedrich Safety Hammer										
	10									
	17									
	22	NP		20						
Fine SAND—gray—dense (A-2/A-3)										
	14									
	22									
	-15	26	NP	16						
	17									
	23									
	29	NP		21						
					588.6					
Silty SAND, GRAVEL & FRACTURED ROCK—gray—very dense (A-2)										
	15									
	29									
	-20	41	NP	8						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (SB—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 (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)  
 NR—No Recovery

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**SOIL BORING LOG**

DATE 2/28/2012

LOGGED BY MD

JOB NUMBER P-91-186-06 GSI JOB No. 08015

ROUTE I-294 & I-57 DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)

SECTION - LOCATION SEC 12, T 36 N, R 13 E, SE 1/4, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Safety

STRUCT. NO. -

Station -

BORING NO. LTB-08

Station: 12844.38

Offset: 159.7' Right

Ground Surface Elev. 806.4

Description	Depth (ft)	Blow Count (blows/ft)	Moisture (%)	SPT (blows)	Notes	Depth (ft)	Blow Count (blows/ft)	Moisture (%)	SPT (blows)	Notes
Surface Water Elev.					n/a					
Stream Bed Elev.					n/a					
Groundwater Elevation:										
First Encounter					581.9					
Upon Completion					584.4					
After _____ Hrs.										
TOPSOIL—black	0	AS	-	30						
	4									
CLAY LOAM—brown & gray—very stiff (A-5)	4									
	6	2.0P		17						
					582.4					
	6									
SILTY LOAM—gray—medium dense (A-4)	9									
	-5	10	NP	12						
					579.9					
	12									
SILTY SAND & GRAVEL—brown & gray—very dense (A-2)	26									
	32	NP		7						
					577.4					
	24									
SAND & GRAVEL—gray—very dense (A-1)	36									
	-10	37	NP	6						
					575.4					
End Of Boring @ -30.0' Hollow Stem Augers Diedrich Safety Hammer										
	18									
CLAYEY SAND & GRAVEL—gray—very dense (A-2)	36									
	38	NP		7						
					591.9					
	22									
	31									
	-15	28	NP	7						
	24									
SAND & GRAVEL—gray—dense to very dense (A-1)	24									
	30	NP		11						
	14									
	32									
	-20	29	NP	10						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (SB—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 (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)  
 NR—No Recovery

TYLIN INTERNATIONAL	USER NAME -	DESIGNED -	REVISED -
	DRAWN -	REVISIONS -	
	PLOT SCALE -	CHECKED -	REVISED -
	PLOT DATE -	DATE - 5/23/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**147TH STREET PROJECT  
BORING LOG 4**

SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XX	(0405-1 & 0506-2) R-1	COOK	577	577d
CONTRACT NO.			60M57	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		