

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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SOIL BORING LOG

DATE 10/22/2008

LOGGED BY MD

JOB NUMBER P-91-186-08 GSI JOB No. 08015

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

SECTION - LOCATION I-57-294 Ramp C Fly-Over Bridge

COUNTY Cook DRILLING METHOD Straight Flight Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XXX

Station -

BORING NO. RMP C B-22

Station: 1261+21 (I-57)

Offset: 68.5' Right

Ground Surface Elev. 634.5

D E P T H (ft)	B L O W S (blows)	U C S (tsf)	M O I S T (%)	Surface Water Elev.		Stream Bed Elev.		Groundwater Elevation:		D E P T H (ft)	B L O W S (blows)	U C S (tsf)	M O I S T (%)
				n/a	n/a	n/a	n/a	n/a	n/a				
18.0	7	115								3		113	
6										6	2.2S@		
7	7.25B	15								8	12.7%	16	
3										7		101	
5										15			
-5	9	7.0B	14							-25	6	1.6B	23
3										5		105	
5										8			
6	4.0P	14								11	3.25B	22	
4										3		104	
6	3.6S@									4			
-10	8	9.9%	13							-30	5	4.0B	21
3													
6													
7	3.0P	17											
2										8			
3										11			
-15	7	1.3B	17							-35	13	NP	19
5													
8													
9	4.2B	16											
3										35			
4										37			
-20	6	1.9B	25							-40	42	4.5+P	9

18.0" ASPHALT 633.0

CLAY to CLAY LOAM-brown & gray-stiff to hard (A-6) Fill 609.0

CLAY to CLAY LOAM-brown & gray-stiff to hard (A-6) Fill 601.5

SANDY LOAM-brown-medium dense (A-2) 596.5

CLAY LOAM-gray-very dense (A-6) 576.0

CLAY LOAM-gray-very dense (A-6) 583.0

GRAVEL-gray-very dense (A-1) 585.0

SILT-gray-very dense (A-4) 593.5

CLAY LOAM-gray-very dense (A-6) 573.5

Drillers Observation: Fractured Rock. 574.0

Drillers Observation: Apparent Bedrock. 573.5

RUN 1 (-61.0' to -71.0')
Silurian System Niagaran Series Dolomite
Light gray to gray with horizontal bedding. Fine grained with some varving.
Horizontal fractures @ -61.5', -61.7', -62.4', -62.9', -63.6', -64.3', -64.6', -64.9', -66.2', -67.3' & -68.4'.
Vertical fracture with intersecting horizontal fractures from -67.8' to -68.9'.
Recovery = 94.0%
R.Q.D. = 67.0%

End Of Boring @ -71.0'
Straight Flight Augers To -10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10.0' of 4.0" Casing Used
61.0' of 3.0" Casing Used

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 (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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18.0	7	115								3		113	
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NR-No Recovery

BORING LOGS 6
S.N. 016-1252

TYLIN INTERNATIONAL

DESIGNED - DY	REVISIONS
CHECKED - AD,LS	NAME DATE
DRAWN - DY,EI	
CHECKED - LS,SP,PDF	
DATE - 03/18/10	

SHEET NO. 62	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
62 SHEETS	57	1414.2B	COOK	516	375
CONTRACT NO. 60J27					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

P:\60254057-294\STRUCTURAL\I-57 OVER RAMP B\final submittal_03-17-2010\final submittal_03-17-2010\161252-60J27-062-BORING 6.dgn 9:55:17 AM