



SOIL BORING LOG

GSI Job No. 10025

Page 1 of 1

Date 3/13/12

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW
 SECTION (0707-608&611)HB-B & 0707-608HB-B-1 LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM
 COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO. Station	BORING NO. Station	Ground Surface Elev. ft	DEPTH (ft)	BLOW COUNT (6")	UNSATURATED QUANTITY (tsf)	MOISTURE (%)	SOIL DESCRIPTION		DEPTH (ft)	BLOW COUNT (6")	UNSATURATED QUANTITY (tsf)	MOISTURE (%)
							DESCRIPTION	DEPTH (ft)				
016-1510 & 016-1511 41+24.39	SB-15 41+45	602.50					CRUSHED STONE-dense to very dense (Fill) (continued)					
			24					14				
			22	3				50/4"				14
			16									
		599.50					CLAY LOAM-dark brown & gray-very stiff to hard (Fill)					
			8					50/4"				
			8	4.6	14							
			6	B								
			-5									
							CLAY LOAM with Fractured Rock-gray-very dense					
			8					23				
			9	2.0	10			31	4.5	10		
			9	P				39	P			
		594.00					CRUSHED STONE-dense to very dense (Fill)					
			17					11				
			19		7			19	4.5	10		
			-10					22	P			
			18									
			20									
			23		4		Silty SAND & FRACTURED ROCK-gray-very dense					
								50/8"				
			8									
			10		11							
			-15									
			15									
			21		9		Drillers Observation: Apparent bedrock					
			29				Borehole continued with rock coring.					
			19									
			22									
			-20									

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)
 BBS, from 137 (Rev. 8-99)

ROCK CORE LOG

GSI Job No. 10025

DATE 3/13/2012

LOGGED BY DR

DESCRIPTION 1st Ave. Bridge Rehabilitation & Replacement, 47th St. to 55th St.

SECTION (0707-608&611) HB-B & 0707-608HB-B-1

LOCATION SEC 11, 12, 13 & 14 T 38 N, R 12 E, 3rd PM

COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. 016-1510 & 016-1511 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Station 41+24.39 Core Diameter 2.0 in

BORING NO. SB-15 Top of Rock Elev. 588.0

Station 41+45 Begin Core Elev. 565.5

Offset 77.3' Left

Ground Surface Elev. 602.5

DEPTH (ft)	CORRECTION (%)	RECORDED (%)	RECOVERED (%)	CORRECTION (min)	STRENGTH (tsf)
1	89.0	32.0	n/a		-37.3

SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE
 RUN 1 (-37.0' to -47.0')
 Light gray with horizontal to wavy bedding. Weathered with numerous horizontal & vertical fractures throughout.

Color pictures of the cores. Yes. Cores will be stored for examination for ____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



Alfred Benesch & Company
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 312-565-0450 Job No. 10093

FILE NAME =	USER NAME = ksnyder	DESIGNED - KMS	REVISED -
0161510.60W77.038_Soil.Boring.ISB 151.dgn		CHECKED - JHG	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 6/23/2014	CHECKED - JHG	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS (1 OF 6)
 STRUCTURE NO. 016-1510**

SHEET NO. SA38 OF SA43 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	(0707-608&611)HB-B	COOK	177	103
CONTRACT NO. 60W77			ILLINOIS FED. AID PROJECT	

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