

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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ROCK CORE LOG

DATE 9/19/2008

LOGGED BY DR

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 Over I-294

COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. 016-1096 & 016-1097 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft

Station - Core Diameter 2.0 in

BORING NO. I57-I294 B-8 Top of Rock Elev. 577.6

Station: 260+46 Begin Core Elev. 569.6

Offset: 67.5' Left

Ground Surface Elev. 635.1

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	WATER CONTENT (%)	SHRINKAGE (%)	FLUIDITY	REMARKS
569.6	2	97.5	95.6	na	na	Run 2 (-65.5' to -73.5') Silurian System Niagaran Series Dolomite
						Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -66.1' & -66.6'. Tight vertical fracture from -67.8' to -69.5'. Horizontal fractures @ -68.4', -70.4', -70.8' & -71.5'.
-68.5						
-73.5						

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)

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SOIL BORING LOG

DATE 9/18/2008

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 Over I-294

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

STRUCT. NO. 016-1096 & 016-1097

Station -

BORING NO. I57-I294 B-9

Station: 260+15

Offset: 6.0' Right

Ground Surface Elev. 636.0

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	WATER CONTENT (%)	SHRINKAGE (%)	FLUIDITY	REMARKS
634.8						5.0" ASPHALT, 6.5" CONCRETE, 2.5" CRUSHED STONE
633.0						CLAY with Crushed Stone- medium dense (Fill)
						CLAY-brown & gray- very stiff to hard (A-6) Fill
						CLAY-brown & gray- very stiff to hard (A-6) Fill
						SILTY LOAM to SILT-gray- medium dense to very dense (A-4)

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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SOIL BORING LOG

DATE 9/18/2008

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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 Over I-294

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

STRUCT. NO. 016-1096 & 016-1097

Station -

BORING NO. I57-I294 B-9

Station: 260+15

Offset: 6.0' Right

Ground Surface Elev. 636.0

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	WATER CONTENT (%)	SHRINKAGE (%)	FLUIDITY	REMARKS
589.0						SILTY LOAM to SILT-gray- medium dense to very dense (A-4)
						Run 1 (-60.0' to -70.0') Silurian System Niagaran Series Dolomite
						Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ -60.3', -60.8', -60.9', -61.1', -62.0' & -62.3'. Vertical fracture from -62.3' to -62.8'. Horizontal fractures @ -62.9', -63.3', -63.4', -63.9', -64.2', -65.9', -66.1', -66.2', -67.2', -67.6' & -67.9'. 1.5" clay parting @ -68.4'. Horizontal fracture @ -68.9'. Recovery = 93.0% R.Q.D. = 47.0%
						Drillers Observation: Cobbles or boulder from -49.5' to -51.0'.
						SANDY LOAM with Fractured Rock- gray-very dense (A-2/A-4)
						End Of Boring @ -70.0' Straight Flight Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' 4.0" Casing Used 60.0' 3.0" Casing Used
						Drillers Observation: Apparent Bedrock.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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NR-No Recovery

BORING LOGS 9
STRUCTURE NO. 016-1251

TYLIN INTERNATIONAL	DESIGNED - JMA	REVISIONS		SHEET NO. 65	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.									
	CHECKED - SP,	NAME	DATE							57	1414.2B	COOK	516	310				
	DRAWN - JMA																	
	CHECKED - SP,PDF														CONTRACT NO. 60J27			
	DATE - 03/18/10																	
				68 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												

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3/17/2010