

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 6/27/07

ROUTE FAS 2703 DESCRIPTION Illinois Central Railroad LOGGED BY E. Sandschafer  
SECTION (9-VBR)BR LOCATION Sec 19 - SE 1/4, Sec 30 - NE 1/4, SEC. TWP. 4 N, RNG. 5 E, 3 PM  
COUNTY Clay DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	DEPTH (ft)	BULGE (/ft)	UCS (tsf)	M O I S T Qu T (%)	Surface Water Elev. Stream Bed Elev.	Groundwater Elev. First Encounter Upon Completion After 312 * Hrs.	DEPTH (ft)	BULGE (/ft)	UCS (tsf)	M O I S T Qu T (%)	Description
013-0034 475+50.4	1 474+00 11.00 ft 570.46					N/A	N/A					16" asphalt pavement.
		0						0	0.3	23		Soft, very damp, gray, SILTY LOAM. (continued)
		2						2	B			
		0						0				18" crushed stone.
		567.66						547.66	1.2	23		Medium, damp, gray to brown, SILTY CLAY.
		4						4	B			
		545.96						545.96				Stiff, damp, gray, CLAY w/ Silt.
		2						2				
		4	0.8	21				4	0.6	18		Medium, damp, red, SILTY CLAY.
		5	B					5	B			
		2						2				
		3	0.8	18				3	0.6	18		Stiff to very stiff, damp, red mottled tan, CLAY TILL.
		3	PP					3	B			
		1						1				
		3	0.7	15				3	3.2	15		
		3	B					3	B			
		1						1				
		2	0.4	19				2				Soft to medium, damp, red marbled gray, CLAY w/ trace Silt.
		3	B					3				
		1						1				
		2	0.8	23				2	2.6	13		Very dense, moist, gray, SILTY CLAY SHALE.
		3	B					3	S			
		1						1				
		2	0.3	19				2				Soft, very damp, gray, SILTY LOAM.
		2	B					2				
		0						0				

Latitude W 88 deg 41.037 min, Longitude N 38 deg 40.049 min, Map Datum NAD 83

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)

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013-0034 475+50.4	1 474+00 11.00 ft 570.46					N/A	N/A					Very dense, moist, gray, SILTY CLAY SHALE. (continued)
		30						30				
		41						41				
		31						31				
		50/3*						50/3*				
		50/2*						50/2*				
		34						34				
		50/4*						50/4*				
		50/2*						50/2*				
		14						14				
		10						10				

Latitude W 88 deg 41.037 min, Longitude N 38 deg 40.049 min, Map Datum NAD 83

Extent of exploration.  
Benchmark: BM 114 chiseled square on SE corner of W abutment of existing structure 013-0034, Sta 474+56, 18.4' Lt = 568.20' elevation. Provided by Program Development.

\* Note: Hole caved/water level at 13.0' when checked on 07/10/07.

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BBS, from 137 (Rev. 8-99)

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	J.G.
CHECKED	C.J.F. & B.B.

SOIL BORINGS-1  
KINMUNDY/LOUISVILLE ROAD  
OVER ILLINOIS CENTRAL RR  
STA. 475+50.44



BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.

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Maryville, IL 62062-5635  
Local (618) 298-4665  
Fax 618-288-4666

SHEET NO. 20 22 SHEETS	F.A.S. RTE. 2703	SECTION (9-VBR)B	COUNTY CLAY	TOTAL SHEETS 65	SHEET NO. 42
	SN 013-0044		CONTRACT NO. 74136		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

2:20:07 PM 10/31/2008 1:57:10pm 0:3004474136.dgn