

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

S.D. 137 REV. 9-66 Sh. 3 of 6 Sh.

**BRIDGE FOUNDATION BORING LOG**

PROJECT P-97-425-70 **BRIDGE PAS RTE. 799 OVER** Date MAY 8, 1974  
 ROUTE PAS 799 **ILLINOIS CENTRAL GULF RAILROAD** Bored By R. D. METHENEY  
 SEC 9VBR STA 475+50.40 Checked By J. J. KIAY  
 COUNTY CLAY

Boring No. 2 PIER NO. 1  
 Station 475+25  
 Offset 6.5' RT. C

Elevation	N	Qu / s / t	Surface Water El.	Groundwater El. at Completion	Elevation	N	Qu / s / t	w (%)
Ground Surface 544.4	0		HARD, BROWNISH GREY, WEATHERED CLAY SHALE	NONE	521.4			
SOFT, DAMP TO VERY DAMP, BROWN MOTTLED GREY, CLAY LOAM TO CLAY	2	0.5 S 18	HARD, MOIST TO DRY, BROWNISH GREY, CLAY SHALE				7.0E	11
541.4			* 54" PENETRATION FOR 100 BLOWS		-25			
STIFF, DAMP TO VERY DAMP, BROWN MOTTLED GREY & BLACK, CLAY WITH VERY THIN SAND LENSES	9	1.1 S 22			517.4	120	9.7 S	11
STIFF, DAMP, BROWNISH GREY, CLAY			EXTENT OF EXPLORATION					
	15	2.0 S 19			-30			
535.4		2.9 S 21						
VERY STIFF, DAMP, BROWN MOTTLED GREY, SLIGHTLY ORGANIC (WOOD) CLAY	13	1.5 S 22			-35			
STIFF, DAMP TO VERY DAMP, BROWN MOTTLED GREY, CLAY LOAM TO SILTY CLAY LOAM	11	5.4 S 16						
530.9		3.9 S 17			-40			
HARD, VERY MOIST, BROWN MOTTLED GREY, CLAY TILL WITH VERY THIN SANDSTONE LENSES & SANDSTONE FRAGMENTS	33	1.4 S 15			-20			
528.9		3.5 S 17			-40			
VERY STIFF, VERY MOIST, BROWN MOTTLED GREY, HIGHLY ORGANIC WITH HAIRLINE ROOTS, CLAY TILL WITH VERY THIN LENSES OF WEATHERED SANDSTONE	27	3.6 S 16			-20			
526.4		5.0 S 13			-45			
STIFF, DAMP, BROWN MOTTLED GREY, VERY WEATHERED CLAY SHALE WITH NUMEROUS LENSES & FRAGMENTS OF SOFT WEATHERED SANDSTONE	36							
522.5								
HARD, MOIST TO VERY MOIST, WEATHERED CLAY SHALE	100							

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30'.  
 Qu - Unconfined Compressive Strength - t/sf  
 w - Water Content - percentage of oven dry weight - %  
 Type failure:  
 B - Bulge Failure  
 S - Shear Failure  
 E - Estimated Value  
 P - Penetrometer

S.D. 137 REV. 9-66 Sh. 4 of 6 Sh.

**BRIDGE FOUNDATION BORING LOG**

PROJECT P-97-425-70 **BRIDGE PAS RTE. 799 OVER** Date MAY 9, 1974  
 ROUTE PAS 799 **ILLINOIS CENTRAL GULF RAILROAD** Bored By R. D. METHENEY  
 SEC 9VBR STA 475+50.40 Checked By J. J. KIAY  
 COUNTY CLAY

Boring No. 3 PIER NO. 2  
 Station 475+75  
 Offset 6.5' RT. C

Elevation	N	Qu / s / t	Surface Water El.	Groundwater El. at Completion	Elevation	N	Qu / s / t	w (%)
Ground Surface 544.2	0		VERY STIFF, VERY MOIST, BROWNISH GREY, VERY WEATHERED, CLAY SHALE		520.7			
SOFT, VERY DAMP, BROWN MOTTLED GREY, SILTY CLAY TO CLAY	3	0.5 S 25	HARD, MOIST, BROWNISH GREY, CLAY SHALE				5.0 E	14
541.4			* 5" PENETRATION FOR 100 BLOWS		-25			
STIFF, DAMP, GREY MOTTLED BROWN & BLACK, CLAY WITH VERY THIN SAND LENSES	7	1.2 S 19			515.2		7.0 E	14
540.2		0.9 S 18					5.7S	17
MEDIUM, DAMP, BROWNISH GREY, CLAY LOAM TO CLAY	9	1.5 S 19	EXTENT OF EXPLORATION		-30			
STIFF, DAMP, BROWN MOTTLED GREY & BLACK, SILTY CLAY								
537.2		2.4 S 17			-35			
VERY STIFF, DAMP, BROWN MOTTLED GREY, CLAY	13	1.6 S 20						
533.7		3.5 S 17			-40			
STIFF, DAMP, BROWN MOTTLED GREY & BLACK, CLAY	17	3.6 S 16			-20			
531.7		3.1 S 20						
VERY STIFF, VERY MOIST TO DAMP, BROWN, CLAY TO CLAY TILL	29							
530.2								
VERY STIFF, VERY MOIST, BROWNISH GREY, VERY WEATHERED CLAY SHALE	40							

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

SOIL BORINGS-3  
 KINMUNDY/LOUISVILLE ROAD  
 OVER ILLINOIS CENTRAL RR  
 STA. 475+50.44



**BERNARDIN  
 LOCHMUELLER &  
 ASSOCIATES, INC.**  
 3 Oak Drive  
 Maryville, IL 62062-5635  
 Local (618) 288-4665  
 Fax 618-288-4666

SHEET NO. 22 22 SHEETS	F.A.S. RTE. 2703	SECTION (9-VBR)B	COUNTY CLAY	TOTAL SHEETS 65	SHEET NO. 44
	SN 013-0044		CONTRACT NO. 74136		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

28/144 PL 10/31/2008 .../Bridge/0130044/74136.dgn