

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 6/3, 4/2008

ROUTE FAP 327 DESCRIPTION Structure Replacement - US 50 over Lackey Creek LOGGED BY SCI

SECTION 15B-1 LOCATION ~0.2 mile E of Union (MO) Pacific RR; SW 14, SEC. 12, TWP. 2N, RNG. 2E

COUNTY Marion DRILLING METHOD CME 55 wHSA HAMMER TYPE Automatic

STRUCT. NO. 061-0036 (Existing)
Station 1251+66

BORING NO. B-2
Station 1251+88
Offset 14 ft Lt
Ground Surface Elev. 519.7 ft (ft) (6") (tsf) (%)

DEPTH (ft)	DESCRIPTION	U	M	DEPTH (ft)	U	M
0	ASPHALT - 12 inches			0		
518.7				499.2		
2	FILL: Brown, low plastic sandy clay (A-6)	2	17	2	2.1	14
516.7	(No recovery - grab sample of auger cuttings obtained)			5	B	
0	FILL: Brown and grayish brown, low plastic silty clay, some sand (A-7) and Brown, low plastic sandy clay (A-7)	2	20	4	4.3	13
514.2		3	B	5	B	
0	FILL: Grayish brown and brown, high plastic clay, some sand (A-7)	1	28	6	2.3	13
1		1	B	11		
0	Grades to trace sand	0	27	5	2.7	14
0		0	B	7	B	
508.2				12		
507.7	FILL: Crushed rock and sand	6	18			
506.7	FILL: Brown, low plastic sandy clay (A-4)	5				
0	SANDY CLAY: Gray and brown, low plastic (A-6)	0	20	3	1.9	19
0		1	P	6	B	
1		1		7	B	
0	Becomes gray	0	22			
1	Sand content increases	1	B			
3		3				
501.7						
501.0	SAND: Brown, fine to medium (A-3)	3	21	2	1.2	20
2		2		3	B	
3		3		4	B	
20		20				

Surface Water Elev. 511.5 ft
Stream Bed Elev. 510.5 ft

Groundwater Elev.:
First Encounter 508.7 ft
Upon Completion 508.2 ft
After 24 Hrs. 508.2 ft

SILTY CLAY: Gray and brown, low plastic, some sand (A-6) (continued)

SAND: Brown, fine to medium with clay lumps (A-2)

CLAY: Brown, high plastic, some sand, trace gravel (A-7)

End of drilling on 6/3. 24-hr groundwater level measured on 6/4 prior to drilling.

Sand content decreases

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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BORING NO. B-2
Station 1251+88
Offset 14 ft Lt
Ground Surface Elev. 519.7 ft (ft) (6") (tsf) (%)

DEPTH (ft)	DESCRIPTION	U	M	DEPTH (ft)	U	M
0				0		
478.7				478.7		
1	SILTY CLAY: Dark brown, some organics, sand (A-6)	1	19	1	1.4	19
2		2		2	B	
0.7		0.7	62	3		
475.2				4	1.3	21
2	CLAY: Brown, high plastic, trace sand (A-7)	2	19	4	B	
3		3		5		
0	Becomes bluish gray	0	20	6	1.3	21
2		2		7	B	
1.4		1.4	20	12		
4		4				
467.7						
1	CLAY: Brown, high plastic, some sand, trace gravel (A-7)	1	22	1	1.7	22
2		2		4	B	
1.0		1.0	19	6		
4		4		7	1.2	20
55		55		8	B	
0						
3		3				
1.3		1.3	19			
4		4				
8		8				
439.7						

Surface Water Elev. 511.5 ft
Stream Bed Elev. 510.5 ft

Groundwater Elev.:
First Encounter 508.7 ft
Upon Completion 508.2 ft
After 24 Hrs. 508.2 ft

CLAY: Brown, high plastic, some sand, trace gravel (A-7) (continued)

Boring terminated at 80 feet.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F.

SOIL BORINGS
STRUCTURE NUMBER 061-2026



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62442-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 8	F.A.P. RTE. 327	SECTION 15B-1	COUNTY MARION	TOTAL SHEETS 58	SHEET NO. 40
		SN 061-2026		CONTRACT NO. 76A59	
9 SHEETS		FED. ROAD DIST. NO. 8 ILLINOIS		FED. AID PROJECT 327	