ROUTE	SECTION	COUNTY	TOWNSHIP	TOTAL SHEETS	SHEET NUMBER
T.R. 319	05-13136-00-BR	JACKSON	SEC 3, T10S, R2W	89	15
JOB NO. C-99-550-05			PROJECT NO. BROS-077(43)		
ETHERTON ROAD			CONTRACT NO. 99249		

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log
Sheet 1 of 2

TR 319 (Etherton road) Over Stream
Route: TR 319 Structure Number: 039-0044 Date: 8/23/99
Section Bored By: B.Keller
County: Jackson Location: At Etherton Checked By: J. Zdankiewicz

Boring No 1-S
Station 9+59
Offset 6' RT of CL
Ground Surface 396.1 Ft

Surf Wat Elev: 377.0
Ground Water Elevation when Drilling 373.1
At Completion 376.1
At: Hrs:

Description	Depth	Blow	Qu tsf	W%
Multi A-1 & Crushed Aggregate				
394.6				
Medium, moist, brown, Silt Loam to Loam A-4		2		
		2	0.6P	18
		2		
	5.0	2		
		2	0.7S	18
		3		
		1		
		2	0.6S	17
		2		
	10.0	1		
		2	0.6S	22
		2		
384.1				
Soft, very moist, brown, Silt Loam to Loam A-4		1		
		2	0.3B	27
		1		
381.6				
Medium, moist to very moist, grey, Loam to Silt Loam A-4	15.0	1		
		2	0.7S	27
		3		
379.1				
Very soft, very moist, grey, Silt Loam to Loam A-4		WH		
		WH	0.2B	27
		WH		
376.1	20.0	WH		
Medium, moist, grey mottled brown, Silty Clay A-6		1	0.8B	23
		2		
374.1				
Medium to soft, very moist, grey, Silty Clay to Clay A-6		1		
		1	0.5B	31
		2		
371.6				
	25.0	WH		
Soft, very moist, grey, Silty Clay A-6		1	0.3B	29
		2		
369.1				
Loose to very loose, very moist, grey, Fine to Coarse Sand with Organics and Silty Clay layers		1		
		1		
		3		
366.6				
Medium, very moist, grey, Silty Clay A-6	30.0	WH		
		1	0.7B	39
		1		
364.1				
Very soft, very moist, grey, Silty Clay A-6		WH		
		WH	0.2B	38
		WH		
361.6				
Medium, moist, grey, Silty Clay to Silty Clay Loam A-6	35.0	WH		
		1	0.8B	29
		1		
359.1				
Medium, very moist, grey, Clay A7-6		1		
		1	0.7B	29
		WH		
356.6				
Medium, very moist, grey, Silty Clay to Silty Clay Loam A-6	40.0	1		
		1	0.6B	29
		WH		
351.6				
Medium, very moist, grey, Clay A7-6	45.0	WH		
		WH	0.8B	33
		WH		
346.6				
	50.0	1		

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log
Sheet 1 of 2

TR 319 (Etherton Road) Over Stream
Route: TR 319 Structure Number: 039-0044 Date: 8/24/99
Section Bored By: B.Keller
County: Jackson Location: At Etherton Checked By: J. Zdankiewicz

Boring No 2-S
Station 10+44
Offset 18' Lt CL
Ground Surface 393.6 Ft

Surf Wat Elev: 377.4
Ground Water Elevation when Drilling 376.6
At Completion 371.6
At: Hrs:

Description	Depth	Blow	Qu tsf	W%
Stiff, moist to damp, brown, Silt Loam A-4		2		
		2	1.2S	12
		2		
389.1				
Medium to soft, moist to very moist, brown, Silt Loam to Loam A-4	5.0	1		
		2	0.9S	20
		2		
		1		
		1	0.5S	25
		1		
364.1				
Medium to soft, very moist, grey, Silt A-4	10.0	1		
		1	0.5B	26
		2		
381.6				
Soft, very moist, grey, Silt Loam A-4		1		
		WH	0.3B	34
		1		
	15.0	WH		
		1	0.4B	30
		WH		
376.6				
Medium, very moist, grey, Sand and Gravel		2		
		8		
		11		
374.1				
	20.0	3		
(No Sample)		3		
		1		
Soft, very moist, grey, Silt Loam to Silty Clay Loam A-4		WH		
		1	0.4B	30
		1		
369.1				
	25.0	1		
Medium to soft, very moist, grey, Clay A7-6		WH	0.5B	39
		WH		
366.6				
Soft, very moist, grey, Clay to Silty Clay A7-6		WH		
		WH	0.4B	34
		WH		
364.1				
Medium, very moist, grey, Silty Clay A-6	30.0	WH		
		1	0.7B	35
		1		
361.6				
Soft to medium, very moist, grey, Silty Clay A-6		1		
		WH	0.4B	30
		WH		
	35.0	WH		
		WH	0.5B	26
		WH		
		1		
		2	0.7B	23
		3		
354.1				
Medium, moist, grey Clay to Clay Loam A-6 with broken Sandstone Gravel	40.0	WH		
		2	0.5B	17
		3		
349.1				
Stiff, moist, grey, Sandy Clay Loam to Clay Loam A-4	45.0	1		
		3	1.2S	16
		4		
344.1				
	50.0	3		

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2
Date: 8/23/99

Route: TR 319
Section:
County: Jackson

Boring No: 1-S
Station: 9+59
Offset: 6' RT of CL
Ground Surface: 396.1 Ft

Description	Depth	Blow	Qu tsf	W%
Medium, very moist, grey, Clay to Silty Clay A-6		2	0.8B	20
		2		
341.6				
Very stiff, moist, grey, Clay A7-6	55.0	2		
		5	2.7B	23
		7		
336.6				
Very stiff, moist, brown, Clay A7-6	60.0	3		
		9	3.1B	23
		12		
	65.0	6		
		12	4.5B	18
		18		
326.6				
Very stiff, moist to damp, grey to olive, Clay A7-6 with Broken Sandstone Gravel	70.0	8		
		13	3.3B	14
		19		
	75.0	4		
		11	2.7B	16
		15		
316.6				
Very dense, dry, grey, Sandstone 315.6	80.0	100/0.5"		
Hard, dry, grey, Clay Shale				
	85.0	100/4"		
306.1	90.0	100/4"		
Bottom of hole = 89.5 feet				
Free water observed at 23.0 feet	95.0			
Elevation referenced to BM at NE wingwall of existing structure; Elevation = 396.6 feet				
To convert "N" values to "N60" values multiply by 1.25				
	100.0			

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2
Date: 8/24/99

Route: TR 319
Section:
County: Jackson

Boring No: 2-S
Station: 10+44
Offset: 18' Lt CL
Ground Surface: 393.6 Ft

Description	Depth	Blow	Qu tsf	W%
Very stiff, moist to damp, grey Clay A7-6		7	3.3B	22
		9		
	55.0	3		
		7	2.7B	21
		13		
334.1				
	60.0	5		
Very stiff, damp, grey, Clay A7-6 with Sandstone Gravel		12	3.0B	14
		19		
	65.0	3		
		24	2.5	15
		19		
324.6				
Hard, damp, grey, Weathered Clay Shale 323.6	70.0	10		
Very Dense, dry, grey, Sandstone (Refusal) 322.6		100/1"		
	75.0			
Bottom of hole = 71.0 feet	80.0			
Free water observed at 17.0 feet				
Elevation referenced to BM on NE wingwall; Elevation = 396.6 feet				
To convert "N" values to "N60" values multiply by 1.25				
	85.0			
	90.0			
	95.0			
	100.0			

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

JACKSON COUNTY HIGHWAY DEPARTMENT
JACKSON COUNTY, ILLINOIS

ETHERTON ROAD

SOIL BORING LOGS