ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 8985	103 B	MADISON	61	32B
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
3 SHEETS

Contract #97343

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

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Division of Highways, SCI Engineering, Inc

Date 01/25/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. —
Station —

BORING NO. B-1
Station 83+40.82
Offset 24.55 ft Lt.
Ground Surface Elev. 532.8 ft

Surface Water Elev. — ft
Stream Bed Elev. — ft

Groundwater Elev.:
First Encounter 524.3 ft ▼
Upon Completion — ft
After 24 Hrs. 532.8 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, low plastic sandy clay (A-6)			
	1 1 2	0.2 S/S	21
529.8			
SILTY CLAY: Brown, low plastic, trace sand (A-6)			
	1 1 1	0.4 S/10	27
	0 0 1	0.3 S/15	26
524.8			
SANDY CLAY: Brown, low plastic (A-6)			
	1 3 5	3.1 B	19
527.3			
CLAY: Brown, high plastic, some sand (A-7)			
	3 7 10	3.3 B	20
519.8			
SILT: Brown, low plastic (A-4)			
	5 15 21	1.4 S/15	22
517.3			
CLAY: Brown and gray, high plastic, trace to some sand (A-7)			
	5 7 10	2.8 B	20
Grades to trace gravel, organics			
	2 3 8	2.2 B	21

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
512.3			
SILTY CLAY: Brown, low plastic (A-6)			
	3 4 6	2.0 B	24
509.8			
CLAY: Brown, high plastic, some sand (A-7)			
	2 4 7	1.8 B	21
Grades to trace organics			
	3 3 4	1.5 B	23
	2 5 8	0.8 B	21
	2 4 4	0.6 B	23
	2 4 6	1.3 B	20
	3 4 5	>0.25 P	28
Grades to trace sand			

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)

Illinois Department of Transportation — SOIL BORING LOG

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Date 01/25/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. —
Station —

BORING NO. B-1
Station 83+40.82
Offset 24.55 ft Lt.
Ground Surface Elev. 532.8 ft

Surface Water Elev. — ft
Stream Bed Elev. — ft

Groundwater Elev.:
First Encounter 524.3 ft ▼
Upon Completion — ft
After 24 Hrs. 532.8 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) (continued)			
	3 5 6	0.5 B	25
Grades to some sand			
	2 4 6	1.3 B	20
	3 4 6	0.8 B	20

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) (continued)			
	4 5 8	0.9 B	20
469.8			
CLAYEY SILT: Gray, low plastic (A-4)			
	4 7 13	1.4 S/15	23
460.8			
CLAY: Brown, high plastic, trace sand, trace limestone fragments (A-7)			
457.8	4 10 0004"	>0.25 P	31
Borehole continued with rock coring.			

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)

Illinois Department of Transportation — ROCK CORE LOG

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Division of Highways, SCI Engineering, Inc

Date 01/25/07

ROUTE Pierce Lane DESCRIPTION Structure Borion LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison CORING METHOD NW Wireline

STRUCT. NO. —
Station —

BORING NO. B-1
Station 83+40.82
Offset 24.55 ft Lt.
Ground Surface Elev. 532.8 ft

CORING BARREL TYPE & SIZE NW (wire line - 101)
Core Diameter 2 in
Top of Rock Elev. 457.8 ft
Begin Core Elev. 457.8 ft

DEPTH (ft)	CORE RECOVERY (ft)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Gray, hard to very hard, aphanitic, medium to thick bedded, slightly weathered, and dense	1	96	55	9
453.3				
Boring terminated at 79.5 feet.				

Color pictures of the cores
Cores will be stored for examination until Yes
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

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Division of Highways, SCI Engineering, Inc

Date 01/26/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. —
Station —

BORING NO. B-2
Station 83+97.00
Offset 28.99 ft Lt.
Ground Surface Elev. 532.7 ft

Surface Water Elev. — ft
Stream Bed Elev. — ft

Groundwater Elev.:
First Encounter 519.2 ft ▼
Upon Completion 510.2 ft ▽
After 3 Hrs. 529.7 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY: Brown, low plastic, trace to some sand, trace organics (A-6)			
	1 1 0	0.5 S/10	27
529.7			
SANDY CLAY: dark brown, low plastic, trace organics, gravel (A-6)			
	0 1 1	0.1 S/10	23
Sand content increases			
	0 1 2	0.2 B	17
524.7			
CLAY: Brown, high plastic, some sand (A-7)			
	2 5 6	3.0 B	21
Becomes brown and gray			
	3 7 11	2.8 B	18
Becomes olive gray			
	3 6 8	3.7 B	19
Becomes brown and grades to trace organics			
	10 7 8	3.0 B	22
	4 6 13	2.4 B	19

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, high plastic, some sand (A-7) (continued)			
	7 10 12	2.1 B	19
Grades to trace limestone fragments			
	5 6 7	1.3 B	19
	3 5 9	1.4 B	18
504.7			
CLAYEY SAND: Brown, fine (A-2)			
	4 8 14	-	21
500.7			
CLAY: Brown and gray, high plastic, trace sand, organics (A-7)			
	3 5 6	1.2 B	27
Grades to some sand, trace rock			
	2 5 14	1.1 B	18

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)

Illinois Department of Transportation — SOIL BORING LOG

Page 2 of 2

Date 01/26/07

ROUTE Pierce Lane DESCRIPTION Structure Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. —
Station —

BORING NO. B-2
Station 83+97.00
Offset 28.99 ft Lt.
Ground Surface Elev. 532.7 ft

Surface Water Elev. — ft
Stream Bed Elev. — ft

Groundwater Elev.:
First Encounter 519.2 ft ▼
Upon Completion 510.2 ft ▽
After 3 Hrs. 529.7 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown and gray, high plastic, trace sand, organics (A-7) (continued)			
Becomes brown and grades to trace sand			
	1 4 5	1.4 B	22
Grades to some sand, trace limestone fragments (plant fossil)			
	1 5 6	1.0 B	22
	3 5 7	1.1 B	21
	1 5 9	1.2 B	21

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY: Brown and gray, high plastic, trace sand, organics (A-7) (continued)			
	3 6 8	1.5 B	21
486.2			
Augur refusal at 66.5 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)

Illinois Department of Transportation — SOIL BORING LOG

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Division of Highways, SCI Engineering, Inc

Date 01/26/07

ROUTE Pierce Lane DESCRIPTION Retaining Wall Boring LOGGED BY SCI

SECTION LOCATION Godfrey Township, SEC. 27, TWP. 6N, RNG. 10W

COUNTY Madison DRILLING METHOD CME 550 w/HSA HAMMER TYPE Automatic

STRUCT. NO. —
Station —

BORING NO. R-3
Station 80+34.12
Offset 28.37 ft Lt.
Ground Surface Elev. 540.2 ft

Surface Water Elev. — ft
Stream Bed Elev. — ft

Groundwater Elev.:
First Encounter Not Observed ft
Upon Completion Not Observed ft
After — Hrs. — ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, high plastic clay, some sand, trace shale fragments (A-7)			
	2 5 6	1.3 B	21
	3 6 12	1.8 B	20
	13 16 14	4.5 P	17
Grades to trace limestone fragments			
	3 7 14	1.8 P	19
527.2			
CLAY: Gray, high plastic, some sand (A-7)			
No recovery			
	3 3 4	1.1 B	23
520.2			

Boring terminated at 20 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)

BORING LOGS
PIERCE LANE OVER
ROCKY FORK CREEK
FAU 8985 - SECTION 103B
MADISON COUNTY
STA. 83+36.88
STRUCTURE NO. 060-6902