CONTRACT NO. 64413

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. 5	19B-2-D	STEPHENSON	57	38
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22
23 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

B - 3

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 3/13/00

ROUTE FA 5 (US 20 BR) DESCRIPTION P-92-046-99 US 20 over Yellow Creek LOGGED BY B. Montooms

SECTION 19 BR-2 LOCATION Silver Creek Twp. SE. SEC. 4, TWP. 26N, RNG. 8E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE Mobile Safe-T-Driver

STRUCT. NO.
Station 56 + 25

BORING NO. B-3
Station 57 + 60
Offset 25.00ft Lt
Ground Surface Elev. 99.6 ft

Surface Water Elev. 84.6 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 77.6 ft ▽
Upon Completion Wash ft
After 24 Hrs. 84.0 ft ▽

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
tan weathered LIMESTONE (fill)			7.0 E	
	97.10			
DENSE Same as above		26 19 18	7.0	
	95.60			
	-5			
VERY STIFF black SILTY LOAM		6 9 15	2.75 B	15
	93.10			
VERY STIFF black SILTY CLAY		7 10 14	2.75 B	23
	90.60			
	-10			
STIFF Same as above		7 11 14	2.0 B	21
	88.10			
VERY STIFF Same as above		7 11 14	2.75 B	26
	85.60			
	-15			
STIFF Same as above	▽	4 5 7	1.4 B	33
	83.10			
STIFF Same as above, bottom 1" SAND		3 5 7	1.4 B	31
	80.60			
	-20			
LOOSE grey SAND		2 2 7		
	77.60 ▽			
VERY LOOSE Same as above		1 4 2		
	75.60			
	-25			
MEDIUM brown SAND & GRAVEL		10 13 13		
	73.10			
Wash MEDIUM Same as above		5 8 8		
	70.10			
	-30			
VERY STIFF grey SILTY CLAY		10 9 11	4.5 B	21
		6 10 15	2.5 B	24
	-35			
		10 10 14	5.0 B	21
		9 9 12	4.0 B	21
	-40			

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)

B - 3

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 3/13/00

ROUTE FA 5 (US 20 BR) DESCRIPTION P-92-046-99 US 20 over Yellow Creek LOGGED BY B. Montooms

SECTION 19 BR-2 LOCATION Silver Creek Twp. SE. SEC. 4, TWP. 26N, RNG. 8E

COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE Mobile Safe-T-Driver

STRUCT. NO.
Station 56 + 25

BORING NO. B-3
Station 57 + 60
Offset 25.00ft Lt
Ground Surface Elev. 99.6 ft

Surface Water Elev. 84.6 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 77.6 ft ▽
Upon Completion Wash ft
After 24 Hrs. 84.0 ft ▽

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF grey SILTY CLAY (continued)		17 15 20	4.0 B	19
	58.10			
HARD grey SILTY CLAY TILL silt lens		21 17 22	4.0 P	23
	55.60			
	-45			
STIFF gray SILT with till lens		14 18 20	1.65 B	17
	53.10			
VERY STIFF gray with SILT lens SILTY LOAM TILL		22 21 30	3.27 S	15
	50.10			
	-50			
Wash DENSE gray SAND & GRAVEL		12 15 28		
	48.10			
VERY DENSE gray well cemented fine SAND		14 23 29		
	45.60			
VERY DENSE Same as above				
	-55			
		24 33 36		
		18 32 30		
	40.60			
End of Boring				
	-60			

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)

DESIGNED	L.C.M.
CHECKED	S.D.K.
DRAWN	T.L.N.
CHECKED	S.D.K.

- 20

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

LEGEND

N Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer faling 30".
Qu Unconfined Compressive Strength - t/sf.
W% Water Content - precentage of dry weight - %.

Type Failure
B Bulge Failure
S Shear Failure
E Estimated Value
P Penetrometer

Notes: For location of borings, see General Plan & Elevation sheet No. 1.
Offsets are given from ℄ F.A. Route 301 U.S. 20.

SOIL BORING
U.S. 20 B.R. OVER YELLOW CREEK
F.A. RT. 5 SEC. 19B-2-D
STEPHENSON COUNTY
STATION 56+25.00
STRUCTURE NUMBER 089-0008

THE SCHEMMER ASSOCIATES