CONTRACT NO. 64413

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. 5	19B-2-D	STEPHENSON	57	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 23
23 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

B - 4

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 4/6/00

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

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-4
Station 55 + 83
Offset 32.00ft Lt CL
Ground Surface Elev. 99.0 ft

Surface Water Elev. 87.5 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 76.0 ft ▼
Upon Completion Wash ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Air			
-5			
-10			
86.50 Ground			
86.00 MEDIUM brown SILTY LOAM	4 5 5	0.75 P	40
84.50			
-15			
SOFT brown SILTY LOAM	3 3 5	0.41 B	30
82.00			
SOFT dark gray with SAND lens SILTY LOAM 8% ORGANICS	2 2 2	0.33 B	48
79.50			
-20			
SOFT Same as above, bottom 3" dirty SAND & GRAVEL 8% ORGANICS	2 3 10	0.29 B	53
77.00			
▼			
VERY STIFF gray SILT with CLAY lens	5 8 10	2.47 B	25
74.50			
-25			
VERY STIFF gray SILTY CLAY lens	5 7 10	2.06 B	22
72.00			
VERY STIFF Same as above	8 8 10	2.47 B	23
69.50			
-30			
VERY STIFF Same as above	8 10 13	2.06 B	21
67.00			
VERY STIFF Same as above	7 10 11	2.27 S	21
64.50			
-35			
STIFF gray SILT with CLAY lens	9 9 12	1.75 P	22
62.00			
MEDIUM gray SILT CLAY	17 20 22	0.75 P	20
59.50			
-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 - 4

Illinois Department of Transportation
Division of Highways
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SOIL BORING LOG

Page 2 of 2

Date 4/6/00

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

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-4
Station 55 + 83
Offset 32.00ft Lt CL
Ground Surface Elev. 99.0 ft

Surface Water Elev. 87.5 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 76.0 ft ▼
Upon Completion Wash ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Wash STIFF gray SILT with TILL lens	3 11 12	1.81 B	22
57.00			
VERY STIFF gray SILT CLAY TILL with SILT lens	11 13 16	3.03 S	21
54.50			
-45			
Wash VERY STIFF gray SILT TILL with DOLOMITE lens	30 26 26	3.08 S	16
51.50			
VERY DENSE gray well cemented fine SAND	19 53 41		
49.50			
-50			
Wash VERY DENSE Same as above	24 29 34		
47.00			
VERY DENSE Same as above	23 30 36		
44.50			
-55			
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)

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

LEGEND

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 - precentage of dry weight - %.

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

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

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