CONTRACT NO. 64413

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. 5	19B-2-D	STEPHENSON	57	37
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 21
23 SHEETS

B - 2

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 4/24/00

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

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-2
Station 56 + 67
Offset 23.00ft Rt CL
Ground Surface Elev. 99.1 ft

Surface Water Elev. 85.1 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Wash ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Air 14'					
STIFF gray SILTY LOAM			1 3 6	1.8 P	19
	75.10		5 7 7	1.6 B	24
Wash STIFF gray SILTY LOAM	72.60	-25	6 8 11	1.2 S	31
Wash VERY STIFF gray SILTY LOAM with a SAND lens	70.10		8 13 15	3.1 P	36
Wash VERY STIFF gray SILT	67.60	-30	6 11 11	2.5 S	
Wash STIFF gray SILTY LOAM	65.10		8 12 14	1.2 S	22
Wash VERY STIFF gray SILTY CLAY	62.60	-35	9 11 14	2.3 S	28
Wash STIFF gray SILTY LOAM	60.10	-40	8 12 13	1.7 B	22
	85.10	-15			
Water to 17.5					
	81.60				
river bottom SILT & SAND to 20' VERY SOFT black SILTY LOAM	79.10	-20		0.0 P	52

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 - 2

Illinois Department of Transportation
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SOIL BORING LOG

Page 2 of 2

Date 4/24/00

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

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-2
Station 56 + 67
Offset 23.00ft Rt CL
Ground Surface Elev. 99.1 ft

Surface Water Elev. 85.1 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Wash ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Same as above	57.10		7 11 13	1.7 B	20
Wash DENSE gray fine SAND	54.60	-45	12 13 18		
STIFF gray SILTY CLAY TILL	52.60		8 11 12	1.7 B	18
Wash VERY STIFF gray SILTY CLAY TILL	49.60		11 17 28	2.7 S	17
MEDIUM tan fine well-cemented SAND	47.60	-50	3 9 15		
VERY DENSE tan fine well-cemented SAND	45.10		17 17 34		
MEDIUM tan fine SAND	42.60	-55	7 11 15		
VERY DENSE tan fine SAND		-60	13 23 36		
VERY DENSE tan fine SAND (continued)	37.60		18 26 35		
DENSE tan fine SAND	35.10		9 18 20		
End of Boring		-65			
		-70			
		-75			
		-80			

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 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

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