Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. D-7

LOCATION NO.: 7-02

SOIL BORING LOG

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Date 5/17/05

ROUTE FAI 57 DESCRIPTION Cantilevered Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SW 1/4, SEC. 26, TWP. 9 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. N/A
Station

BORING NO. 1
Station 5502+64
Offset 47.00ft E of CL of NB I-57
Ground Surface Elev. 197.85 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 180.9 ft
Upon Completion 182.1 ft
After 24 Hrs. 194.9 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil.	197.65				
Medium to stiff, damp, red marbled gray, CLAY.			5		
			8 11	1.6 B	20
Trace fine gravel.		-5	3		
			5 6	1.0 B	19
Soft, very damp, brown/red/gray, SILTY LOAM.	190.85		2		
			6 10	0.3 B	-19
Hard, very moist, brown, SANDY CLAY TILL.	189.65				
		-10	19		
			30 37	7.0 S	9
			13		
			16 19	5.6 S	8
Hard, very moist, gray, CLAY TILL.	183.35	-15	7		
			11 15	4.1 B	9
			25		
Gray, very moist, fine grained, SAND w/ trace gravel. *19% passing #200 sieve.*	180.15 / 179.65		39 40	+4.5 PP	7
Hard, very moist, gray, SANDY CLAY TILL.		-20	18		
Hard, very moist, gray, SANDY CLAY TILL. *(continued)*			32 44	+9.7 DNF	8
			24		
			31 41	4.8 S	9
		-25	25		
			39 50	5.3 S	9
			16		
			28 43	4.8 BS	10
Gray, wet, fine grained, SAND. *26% passing #200 sieve.*	169.65 / 169.35				
Extent of exploration.		-30			
		-35			
		-40			

Benchmark: TBM Chiseled "X" on top of bolt on SW corner of existing overhead sign truss foundation (East Sta 5502+54) = assumed 200.00'
(NB Centerline station 5502+50 = 200.57' relative.)

Relative new boring location = 10' North and 6' West of existing foundation noted above.

Latitude N 39 deg 11.22 min, Longitude W 88 deg 30.28 min, Map Datum WGS 84

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)

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LOCATION NO.: 7-03

SOIL BORING LOG

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Date 5/18/05

ROUTE US 51 DESCRIPTION Mast Arm Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION , SEC. 9, TWP. 6 N, RNG. 1 E, 3 PM

COUNTY Fayette DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. N/A
Station

BORING NO. 1
Station 56+62
Offset 36.50ft Lt
Ground Surface Elev. 195.75 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 170.5 ft
Upon Completion 174.8 ft
After 24 Hrs. 176.8 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Crushed stone.	194.95				
Gray, LOAM.			7		
	192.75		15 10	2.1 B	20
Very stiff, damp, gray mottled red, CLAY w/ trace sand.	191.25				
Stiff, damp, gray, SILTY CLAY.		-5	5		
	190.25		6 10	1.3 B	18
Gray, SANDY LOAM.	188.65				
Stiff to very stiff, damp, gray, CLAY.			3		
			5 7	2.1 B	24
		-10	3		
			5 8	1.9 B	18
			5		
			6 8	1.7 B	20
		-15	3		
			6 7	2.6 B	22
			4		
			7 8	3.4 B	20
		-20	4		
Stiff to very stiff, damp, gray, CLAY. *(continued)*			6 8	3.0 B	21
	173.75		7		
Stiff to soft, very damp, gray to brown, SILTY LOAM w/ sand and organics. *Estimated natural ground.*			6 6	1.2 S	19
		-25	0		
			1 2	0.3 B	21
	168.75		2		
Very stiff, damp, gray mottled brown, CLAY w/ trace sand.			4 6	2.5 B	16
Soft, wet, gray, SANDY LOAM.	167.45 / 167.25				
Extent of exploration.		-30			
		-35			
		-40			

Benchmark: TBM top of bolt on NE corner existing overhead sign structure #7C026U051L011.0, Sta 55+67 on centerline US 51 = assumed 200.00'

(Alternate TBM top of bolt on NW corner existing overhead sign structure #7C026U051R011.0, 45' Lt Sta 56+72, US 51 = assumed 198.58')

Latitude N 38 deg 58.57 min, Longitude W 89 deg 05.71 min, Map Datum WGS 84

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)