STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SOIL BORING LOG

Page 1 of 1

Date 3/20/07

ROUTE FAI 57/70 (I-57/70) DESCRIPTION FR 1354 NB I-57/EB I70 Underpass LOGGED BY E. Sandschafer

SECTION (25-3,4)R LOCATION NW 1/4, SEC. 31, TWP. 8 N, RNG. 6 E, 3 PM

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

STRUCT. NO. 025-2018
Station 2076B+00

BORING NO. 1
Station 2078B+05
Offset 52.00ft Rt
Ground Surface Elev. 562.74 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ___ Hrs. Backfilled ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gravel/Soil mixture.	561.24				
Hard, very moist, brown, SANDY CLAY LOAM TILL.			50/2"		
			50/8"	6.0	8
			50/8"	S	
		-5	23		
			37	7.8	7
			47	S	
Hard, very moist, gray, CLAY LOAM TILL.	555.74		17		
			32	5.7	8
			42	S	
		-10	23		
			32	4.1	9
			47	BS	
			26		
			34	8.1	9
			47	BS	
Extent of exploration.	550.24				
Benchmark: BM 509 Chiseled square on W base of overhead sign truss on I-57/70 "South - Memphis, West - St. Louis" = 581.46' elevation, Station 2078+07, 86.6' Lt of centerline survey.		-15			
(Additional B1 location information: 19' E of face of existing box culvert, 5' N of FR1354 centerline.)		-20			

Latitude W 89 deg 34.471 min. Longitude N 39 deg 50.095 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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Date 3/20/07

ROUTE FAI 57/70 (I-57/70) DESCRIPTION FR 1354 NB I-57/EB I70 Underpass LOGGED BY E. Sandschafer

SECTION (25-3,4)R LOCATION NW 1/4, SEC. 31, TWP. 8 N, RNG. 6 E, 3 PM

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

STRUCT. NO. 025-2018
Station 2076B+00

BORING NO. 2
Station 2075B+99
Offset 47.00ft Lt
Ground Surface Elev. 559.85 ft

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

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After ___ Hrs. Backfilled ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gravel/Soil mixture.	558.35				
Soft, damp, red, SANDY LOAM.			14		
			18	0.3	12
			21	PP	
	554.95	-5	12		
Hard, very moist, brown, SILTY CLAY TILL.			21	7.1	13
			30	S	
	552.35		21		
Very stiff, very moist, brown, SANDY LOAM TILL.			46	+4.5	9
			50/5"	PP	
		-10	18		
			26	3.2	10
			29	BS	
	547.85				
Hard, very moist, gray, SILTY CLAY TILL.			11		
			16	7.3	10
			21	S	
	545.35				
Hard, very moist, gray, CLAY LOAM TILL.		-15	9		
			13	7.7	10
			17	BS	
			9		
			14	7.8	10
			20	BS	
	540.35	-20	6		
Very stiff, very moist, gray w/ reddish brown mottling, CLAY TILL. *(continued)*	537.85		8	3.9	15
			10	B	
Hard, very moist, brown, CLAY LOAM TILL.			14		
			18	+4.5	11
			19	PP	
	534.85	-25	11		
Hard, very moist, brown mottled gray, SILTY CLAY LOAM TILL.	533.85		18	4.5	
			38	BS	
Extent of exploration.					
Benchmark: BM 509 Chiseled square on W base of overhead sign truss on I-57/70 "South - Memphis, West - St. Louis" = 581.46' elevation, Station 2078+07, 86.6' Lt of centerline survey.		-30			
(Additional B2 location information: 14' W of face of existing box culvert, 1' S of FR1354 centerline.)		-35			
		-40			

Latitude W 89 deg 34.481 min. Longitude N 39 deg 50.094 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)

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	J.C.
CHECKED	C.J.F. & B.B.

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62062-5635
Local-(618) 288-4665
Fax 618-288-4666

SOIL BORINGS
STRUCTURE NO. 025-2018

SHEET NO. 9	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)BY	EFFINGHAM	1416	475
9 SHEETS	SN 025-2018		CONTRACT NO. 74296		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

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