Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

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Date 09/15/10

ROUTE FAP 665 DESCRIPTION Structure Replacement LOGGED BY SCI

SECTION 144-B-1 LOCATION Fairview Township; East 1/2, SEC. 2, TWP. 8N, RNG. 3E

COUNTY Fulton DRILLING METHOD CME 75/HSA HAMMER TYPE Automatic

STRUCT. NO. 029-0041 (existing)
Station 398+10

BORING NO. B-1
Station 397+92
Offset 12 ft Rt
Ground Surface Elev. 691.0 ft

Surface Water Elev. 682.5 ft
Stream Bed Elev. 681.7 ft

Groundwater Elev.:
First Encounter 682.0 ft ▼
Upon Completion - ft
After - Hrs. - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, gravelly sand (A-1)	690.0				
FILL: Brown and gray, clay (A-7)		3 4 5	2.6 B	20
Temporary benchmark (TBM) - chiseled square on SW wing wall. Per HDR Engineering - TBM El. 687.42.	688.0			
FILL: Brown, silty clay loam (A-7)		WH 1 2	0.9 B	24
	-5			
	685.5			
FILL: Brown and gray, silty clay (A-6)		WH WH 1	0.3 B	26
	683.0			
CLAY: Brown and gray (A-7)	682.0 ▼	1 1 2	0.5 B	24
SILTY CLAY: Brown and gray (A-7)	-10			
	680.5			
CLAY: Greenish gray (A-7)		WH 1 3	1.0 B	34
Trace wood	677.0	1		
CLAYEY SHALE: Brown and gray	-15	6 19	2.1 S/5	16
Becomes gray with limestone coarse rock and gravel at top and bottom of sample.		23 50/5" 50/2"	-	15
Limestone rock not observed.	-20	25 43 63	-	12
CLAYEY SHALE: Brown and gray *(continued)*				
		15 42 40	-	12
Coarse limestone rock observed within the clayey shale.		14 50/1.5" 50/0.5"	-	12
	-25			
	665.5			
SHALE: Gray				
Boring grouted upon completion of drilling.	664.3	50/5" 50/1.5"	-	4
Boring terminated at 26.7 ft.				
	-30			
	-35			
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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Date 09/14/10

ROUTE FAP 665 DESCRIPTION Structure Replacement LOGGED BY SCI

SECTION 144-B-1 LOCATION Fairview Township; East 1/2, SEC. 2, TWP. 8N, RNG. 3E

COUNTY Fulton DRILLING METHOD CME 75/HSA HAMMER TYPE Automatic

STRUCT. NO. 029-0041 (existing)
Station 398+10

BORING NO. B-2
Station 398+30
Offset 12 ft Lt
Ground Surface Elev. 690.9 ft

Surface Water Elev. 682.5 ft
Stream Bed Elev. 682.1 ft

Groundwater Elev.:
First Encounter 679.9 ft ▼
Upon Completion - ft
After - Hrs. - ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Brown, gravelly sand (A-1)	689.9			
FILL: Brown, clay (A-7)		2 2 2	1.0 P	22
Temporary benchmark (TBM) - chiseled square on SW wing wall. Per HDR Engineering - TBM El. 687.42.				
Becomes brown, dark brown, and gray		1 3 4	2.1 B	23
	-5			
	685.4			
FILL: Brown, silty clay loam, trace rock (A-6)		3 6 6	3.0 B	17
	681.4			
SILTY CLAY LOAM: Dark brown (A-7)	-10	WH 4 2	<0.25 P	25
	680.4			
CLAY LOAM: Dark brown (A-7)	679.4 ▼	WH 2 23	0.7 P	28
SANDY LOAM: Brown and gray (A-2)	678.7			
SANDY SHALE: Gray and brown				
	676.9	50/5" 50/1"	-	11
Borehole continued with rock coring.	-15			
	-20			

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