ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 328	*	CLAY	109	70
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT- AID	

Contract #74107 *(8BR-3)B-1

SHEET NO. 5
7 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG (Page 1 of 3)

Division of Highways, Illinois Department of Transportation

Date 7/18/07

ROUTE FAP 328 (US 45) DESCRIPTION Seminary Creek Overflow LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3,8BR3,8BR4)B-1 LOCATION Sec 16 - NW 1/4, Sec 17 - NE 1/4, SEC., TWP. 2 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 013-0016, Station 966+25.1
BORING NO. 1, Station 965+87, Offset 10.00ft Lt, Ground Surface Elev. 431.11 ft
Surface Water Elev. Dry ft; Stream Bed Elev. 421.46 ft
Groundwater Elev.: First Encounter 351.6 ft; Upon Completion Washed ft; After 24 Hrs. 420.0 ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
15" asphalt pavement.	429.61				
Soft to medium, damp, gray, SILTY LOAM.			0 / 1 / 2	0.3 B	18
		-5	0 / 0 / 2	0.6 B	20
			0 / 1 / 2	0.3 B	24
		-10	0 / 0 / 0	0.1 B	20
			2 / 2 / 3	0.7 B	24
	414.11	-15	0 / 1 / 2	0.3 B	22
Soft to medium, damp, gray mottled brown, SILTY CLAY.	411.61		1 / 2 / 2	0.5 B	15
		-20	1		
Stiff, damp, red marbled gray, SILTY CLAY TILL. *(continued)*	409.11		3 / 4	1.3 B	14
Medium, damp, gray marbled red, CLAY LOAM TILL.	406.61		1 / 2 / 3	0.7 B	13
Medium, damp, gray, SILTY LOAM w/ wood fragments.	404.11	-25	0 / 1 / 2	0.8 B	13
Medium, damp, gray, SANDY LOAM.	401.61		0 / 1 / 2	0.6 B	14
Stiff, damp, gray, CLAY TILL.	401.11	-30	1		
Brown, gravelly, SAND.	400.91		3 / 3	1.5 B	16
Stiff to medium, damp, gray, CLAY TILL w/ wood fragments.		-35	2 / 3 / 5	1.4 B	17
		-40	2		

Latitude W 88 deg 28.299 min, Longitude N 38 deg 37.031 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)

Illinois Department of Transportation — SOIL BORING LOG (Page 2 of 3)

Date 7/18/07

ROUTE FAP 328 (US 45) DESCRIPTION Seminary Creek Overflow LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3,8BR3,8BR4)B-1 LOCATION Sec 16 - NW 1/4, Sec 17 - NE 1/4, SEC., TWP. 2 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 013-0016, Station 966+25.1
BORING NO. 1, Station 965+87, Offset 10.00ft Lt, Ground Surface Elev. 431.11 ft
Surface Water Elev. Dry ft; Stream Bed Elev. 421.46 ft
Groundwater Elev.: First Encounter 351.6 ft; Upon Completion Washed ft; After 24 Hrs. 420.0 ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Stiff to medium, damp, gray, CLAY TILL w/ wood fragments. *(continued)*			3 / 5	0.9 B	18
		-45	2 / 3 / 3	0.9 B	22
	381.61				
Medium, damp, gray, SILTY CLAY TILL.		-50	0 / 3 / 3	0.9 B	22
		-55			
		-60	0		
Medium, damp, grey, SILTY CLAY TILL. *(continued)*			2 / 3	1.0 B	21
	361.61	-65			
Soft, damp, gray, SANDY LOAM.		-70	0 / 4 / 8	0.3 B	24
		-75			
	351.61	-80	6		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG (Page 3 of 3)

Date 7/18/07

ROUTE FAP 328 (US 45) DESCRIPTION Seminary Creek Overflow LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3,8BR3,8BR4)B-1 LOCATION Sec 16 - NW 1/4, Sec 17 - NE 1/4, SEC., TWP. 2 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 013-0016, Station 966+25.1
BORING NO. 1, Station 965+87, Offset 10.00ft Lt, Ground Surface Elev. 431.11 ft
Surface Water Elev. Dry ft; Stream Bed Elev. 421.46 ft
Groundwater Elev.: First Encounter 351.6 ft; Upon Completion Washed ft; After 24 Hrs. 420.0 ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Medium, wet, brown, fine grained, SAND. *7% passing #200 sieve.* *(continued)*			13 / 11		25
	343.61	-85			
Hard, moist, gray, SANDSTONE.	341.31	-90	50/3" / 50/1" / 50/1"		
Extent of exploration:					
Benchmark: BM 209 RR Spike in PP (#217) on W side of US 45, Sta 969+25, 29.7' W of US 45 = 429.86' elevation. Provided by Program Development.		-95			
		-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG (Page 1 of 4)

Date 7/17/07

ROUTE FAP 328 (US 45) DESCRIPTION Seminary Creek Overflow LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3,8BR3,8BR4)B-1 LOCATION Sec 16 - NW 1/4, Sec 17 - NE 1/4, SEC., TWP. 2 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 013-0016, Station 966+25.1
BORING NO. 2, Station 966+62, Offset 10.00ft Rt, Ground Surface Elev. 430.84 ft
Surface Water Elev. Dry ft; Stream Bed Elev. 421.46 ft
Groundwater Elev.: First Encounter 361.3 ft; Upon Completion Washed ft; After 48 Hrs. 418.7 ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
17.5" asphalt pavement.	429.34				
Stiff to medium, damp, gray, SILTY CLAY.			1 / 2 / 3	1.5 PP	25
	423.84	-5	2 / 2 / 2	0.8 B	25
Very soft to medium, damp, gray SILTY LOAM			1 / 2 / 2	0.2 B	24
		-10	1 / 3 / 3	1.0 B	24
			1 / 2 / 3	0.7 B	22
	413.34	-15	0 / 1 / 3	0.8 B	25
Very stiff, damp, gray marbled red, CLAY TILL.	411.34		2 / 4 / 7	2.8 B	23
		-20	4		
Hard, damp, brown marbled gray, CLAY LOAM TILL *(continued)*	408.84		5 / 9	4.1 B	22
Stiff, damp, gray, CLAY TILL.			4 / 11 / 17	3.5 B	22
		-25	6 / 11 / 18	4.4 B	23
			8 / 9 / 12	+4.5 PP	22
		-30	4 / 6 / 9	1.5 B	17
		-35	2 / 3 / 6	1.7 B	19
		-40	1		

Latitude W 88 deg 28.287 min, Longitude N 38 deg 37.040 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)

Illinois Department of Transportation — SOIL BORING LOG (Page 2 of 4)

Date 7/17/07

ROUTE FAP 328 (US 45) DESCRIPTION Seminary Creek Overflow LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3,8BR3,8BR4)B-1 LOCATION Sec 16 - NW 1/4, Sec 17 - NE 1/4, SEC., TWP. 2 N, RNG. 7 E, 3 PM

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

STRUCT. NO. C13-0016, Station 966+25.1
BORING NO. 2, Station 966+62, Offset 10.00ft Rt, Ground Surface Elev. 430.84 ft
Surface Water Elev. Dry ft; Stream Bed Elev. 421.46 ft
Groundwater Elev.: First Encounter 361.3 ft; Upon Completion Washed ft; After 48 Hrs. 418.7 ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Stiff, damp, gray, CLAY TILL. *(continued)*	390.34		4 / 10	2.0 B	21
Blue, SANDY LOAM.	386.34				
Medium, damp gray, CLAY TILL.		-45	0 / 2 / 3	0.7 B	21
	381.34				
Medium, damp, gray, SILTY CLAY TILL w/ wood fragments.		-50	0 / 1 / 2	0.6 B	21
		-55			
	371.34	-60	1		
Very stiff, damp, gray mottled red, CLAY TILL. *(continued)*			3 / 5	2.1 B	22
	361.34	-65			
Gray, fine grained, SAND. *11% passing #200 sieve.*	360.84	-70	1		
Medium, damp, gray, SILTY LOAM.			1 / 3	0.7 B	26
	351.34	-75			
Medium, damp, gray, LOAM.		-80	0		

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)

Illinois Department of Transportation — SOIL BORING LOG (Page 3 of 4)

Date 7/17/07

ROUTE FAP 328 (US 45) DESCRIPTION Seminary Creek Overflow LOGGED BY E. Sandschafer

SECTION (6BR1,6BR3,8BR3,8BR4)B-1 LOCATION Sec 16 - NW 1/4, Sec 17 - NE 1/4, SEC., TWP. 2 N, RNG. 7 E, 3 PM

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

STRUCT. NO. 013-0016, Station 966+25.1
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Surface Water Elev. Dry ft; Stream Bed Elev. 421.46 ft
Groundwater Elev.: First Encounter 361.3 ft; Upon Completion Washed ft; After 48 Hrs. 418.7 ft

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
Medium, damp, gray, LOAM. *(continued)*			3 / 5	0.8 B	19
	341.34	-85			
Very dense, moist, gray, SANDSTONE.	340.84	-90	50/3" / 50/1" / 50/1"		
Borehole continued with rock coring.		-95			
		-100			

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)

ESCA CONSULTANTS, INC.

DESIGNED BY:	FMA	03/08
DRAWN BY:	CJ	03/08
CHECKED BY:	ELH	05/08
APPROVED BY:	RDP	08/08

SOIL BORING LOGS
US 45 OVER SEMINARY CREEK OVERFLOW
FAP ROUTE 328 - SECTION (8BR-3)B-1
CLAY COUNTY
STATION 966+25.10
STRUCTURE NO. 013-2011