STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	(X1-6-2) VB-2	WILLIAMSON	917	834
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 51
51 SHEETS

Contract #98950

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Region 5 /District 9

Page 1 of 2

Date 6/00

ROUTE FAI 57 DESCRIPTION bridge over railroad LOGGED BY Bryan Keller

SECTION X1-6VB LOCATION in Marion, SEC., TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 1-S
Station 1515+58
Offset 6.00ft Rt. ℄ Roadway
Ground Surface Elev. 465.3 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 42.0 ft
Upon Completion _____ ft
After 425.3 Hrs. 461.3 ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Soft, very moist, brown to grey Silty Clay A-6			
	2		
	1	0.3	24
	2	B	
460.80			
Very stiff, moist, brown mottled grey, Clay A7-6	1		
	2	2.2	19
	6	B	
458.30			
Stiff, moist, brown mottled grey, Clay A7-6	2		
	2	1.4	20
	3	B	
453.30			
Stiff, moist, brown mottled grey, Silty Clay Loam A-6	1		
	5	1.3	18
	4	B	
450.80			
Medium, very moist, grey mottled brown, Clay A7-6	2		
	2	0.9	21
	3	B	
448.30			
Stiff to very stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6	1		
	3	1.7	19
	4	B	
	2		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Stiff to very stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6 (continued)			
	4	2.0	19
	6	B	
	2		
	3	1.5	19
	3	B	
	2		
	5	1.6	20
	7	B	
	2		
435.80			
Stiff, moist, grey, Silt Loam to Silty Clay Loam A-4	3		
	4	1.4	20
	4	B	
433.30			
Medium, moist, grey, Silt Loam to Silty Clay Loam A-4	2		
	2	0.7	20
	2	S	
430.80			
Medium, very moist, grey, Silty Clay to Silty Clay Loam A-6	WH		
	1	0.4	25
	1	B	
428.30			
Very stiff, moist, brown mottled grey, Clay A7-6	2		
	3	2.3	19
	5	B	
425.80			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Region 5 /District 9

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Date 6/00

ROUTE FAI 57 DESCRIPTION bridge over railroad LOGGED BY Bryan Keller

SECTION X1-6VB LOCATION in Marion, SEC., TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 1-S
Station 1515+58
Offset 6.00ft Rt. ℄ Roadway
Ground Surface Elev. 465.3 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 42.0 ft
Upon Completion _____ ft
After 425.3 Hrs. 461.3 ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium, very moist, brown mottled grey, Clay to Silty Clay A7-6 (continued)			
	2	0.9	21
	2	B	
420.80			
Stiff, moist, brown, Silty Clay Loam A-6 with sand layers	1		
	2	1.5	19
	2	P	
415.80			
Stiff to very stiff, moist, brown mottled grey, Silty Clay Loam with some fine gravel	3		
	5	2.0	14
	9	B	
	1		
	3	2.2	16
	5	B	
	2		
	3	2.7	18
	6	B	
	6		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
404.80			
Hard, dry, grey, Weathered Clay Shale	13	2.9	15
	22	S	
402.80			
Hard, dry, grey Clay Shale	34		
	100/3"		
	100/2"		
	100/3"		
392.80	100/1"		
Bottom of hole = 72.1 feet			
Free water observed at 42.0'			
Elevation referenced to 1960 plans			
To convert "N" values to "N60" values, multiply by 1.25			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Region 5 /District 9

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Date 6/00

ROUTE FAI 57 DESCRIPTION bridge over railroad LOGGED BY Bryan Keller

SECTION X1-6VB LOCATION in Marion, SEC., TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 2-S
Station 1517+67
Offset 6.00ft Rt. ℄ Roadway
Ground Surface Elev. 465.6 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 49.5 ft
Upon Completion 58.0 ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Very stiff, moist, brown mottled grey, Silty Clay A7-6			
	2		
	3	2.4	20
	5	B	
461.10			
Stiff to very stiff, moist, brown mottled grey Silty Clay A-6	2		
	3	2.0	19
	3	B	
	2		
	5	1.9	17
	5	B	
456.10			
Stiff, moist to very moist, brown mottled grey, Clay A7-6 with some gravel	1		
	2	1.5	21
	1	B	
	1		
	3	1.4	19
	3	B	
	2		
	3	1.5	19
	3	B	
	2		
	2	1.5	21
	3	B	
446.10	1		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Stiff, moist, brown mottled grey, Clay to Silty Clay A7-6 (continued)	3	1.7	23
	5	B	
	2		
	6	1.9	21
	5	S	
441.10			
Stiff, moist, grey, Clay Loam A-4	3		
	7	1.5	22
	6	B	
438.60			
Stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6	2		
	4	1.5	21
	6	S	
	1		
	1	0.6	25
	2	B	
	2		
	2	2.2	20
	4	B	
	2		
	2	1.5	21
	2	S	
426.10	1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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SECTION X1-6VB LOCATION in Marion, SEC., TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0086
Station 1516+58.56

BORING NO. 2-S
Station 1517+67
Offset 6.00ft Rt. ℄ Roadway
Ground Surface Elev. 465.6 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 49.5 ft
Upon Completion 58.0 ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Medium, very moist, brown mottled grey, Silty Clay A7-6 (continued)	1	0.9	20
	1	S	
404.60			
Hard, dry, brown Clay Shale	100/6"		
403.10			
Bottom of hole = 62.3 feet			
Free water observed at 39.5 feet			
Elevation referenced to 1960 plans			
To convert "N" values to "N60" values, multiply by 1.25			
421.10			
Stiff, moist, brown, Silty Clay A-6	1		
	3	1.7	20
	3	B	
416.10			
Stiff, moist, brown, Silty Clay A7-6 with some fine gravel	2		
	2	1.4	17
	4	B	
	2		
	4	2.0	16
	5	B	
	13		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Stiff, moist, brown, Silty Clay A7-6 with some fine gravel (continued)	39		
	90		
	100/6"		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BORING LOGS
F.A.I. RT. 57 SEC. (X1-6-2)VB-2
WILLIAMSON COUNTY
STA. 1516+58.56
S.N. 100-0086 (N.B.)
S.N. 100-0087 (S.B.)