F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	598	4245
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* (1816, ETC, 2324.6-1PIR-9

62302

Illinois Department of Transportation
Division of Highways
AMERICAN GEOMECHANICS, INC.

SOIL BORING LOG

Page 1 of 1

Date 6/23/05

ROUTE FAI I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY RP

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SPS-19
Station 1521+43.98
Offset 8.94ft Lt
Ground Surface Elev. 4.89 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS/6" (SPT N)	UCS Qu (tsf)	MOIST (%)
Asphalt, 9" (4.89)			
Concrete, 14"			
2.75			
Sub Base (FILL)	11		
	13		
1.26	6		
Very Stiff / Dense Gray SILTY CLAY LOAM / SILTY LOAM	15		
	21	3.2	11.8
-0.74	>50	B	
Very Dense Gray SILTY LOAM	45		
	>50	-	6.8
	14		
	>50	-	13.9
Auger Refusal at 9.5 Feet -5.24			
End of Boring			

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
Division of Highways
AMERICAN GEOMECHANICS, INC.

SOIL BORING LOG

Page 1 of 1

Date 6/22/05

ROUTE FAI I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY RP

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SPS-20
Station 1523+52.14
Offset 8.49ft Lt
Ground Surface Elev. 1.37 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS/6" (SPT N)	UCS Qu (tsf)	MOIST (%)
Asphalt, 9" (1.37)			
Concrete, 10"			
0.46			
Sub Base (FILL)	28		
	9		
-1.88	5		
Very Stiff to Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM	7		
	4	3.1	17.8
-5.13	6	B	
	48		
	>50/4	4.2	11.9
Very Dense Gray SILTY LOAM	>50	-	4.8
	>50	-	8.9
Auger Refusal at 14 Feet -12.63	>50		
End of Boring			

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
Division of Highways
AMERICAN GEOMECHANICS, INC.

SOIL BORING LOG

Page 1 of 1

Date 6/22/05

ROUTE FAI I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY RP

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SPS-21
Station 1522+45.79
Offset 8.14ft Rt
Ground Surface Elev. 2.64 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS/6" (SPT N)	UCS Qu (tsf)	MOIST (%)
Asphalt, 7.5" (2.64)			
Concrete, 10"			
-0.18			
Gray Gravel and Clay (FILL)	4		
	3	5.8	10.8
-1.84	2	B	
Very Stiff to Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM	3		
	4	2.2	12.4
-5	7	B	
	19		
Broken Samples, No OL	25/4		8.3
-9.24	RM		
Dense to Very Dense Gray SILTY LOAM	>50		
	-		4.8
-15			
	3		
	8		10.8
	50/4		
	6		
	-		17.8
-25	22		11.4
	>50		
	-		17.8
Auger Refusal at 18.5 Feet -21.14	>50		11.2
End of Boring			

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
Division of Highways
AMERICAN GEOMECHANICS, INC.

SOIL BORING LOG

Page 1 of 1

Date 6/22/05

ROUTE FAI I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY RP

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SPS-22
Station 1521+84.14
Offset 8.94ft Lt
Ground Surface Elev. 0.86 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS/6" (SPT N)	UCS Qu (tsf)	MOIST (%)
Asphalt, 9" (0.86)			
Concrete, 15"			
-1.41			
Gray Sand, Gravel and Clay (FILL)	18		
	9		11.8
-2.74	8		
Medium Stiff to Stiff Gray CLAY	3		
	7	1.8	22.8
-5	3	B	
	1		
	2	0.6	27.2
	2	B	
	1		
	2	0.5	24.8
-10	2	B	
	2		
	1	0.8	20.8
	3	B	
-15	2		
	2	1.2	18.8
	3	B	
-20	2		
	4	1.2	19.2
-17.41	4	B	
Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM	16		
	22	4.2	11.8
	25	B	
	14		
	28	3.3	18.8
-24.14	21	S	
End of Boring			
-25			
-30			
-35			
-40			

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
Division of Highways
AMERICAN GEOMECHANICS, INC.

SOIL BORING LOG

Page 1 of 1

Date 6/22/05

ROUTE FAI I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY RP

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SPS-23
Station 1521+65.83
Offset 8.09ft Rt
Ground Surface Elev. 6.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS/6" (SPT N)	UCS Qu (tsf)	MOIST (%)
Asphalt, 9" (6.76)			
Concrete, 14"			
-1.09			
Sub Base (FILL)	11		
	15		
-4.26	15		
Very Stiff Gray SILTY CLAY LOAM	6		
	4	2.5	17.8
-5.76	4	B	
Medium Stiff to Stiff Gray CLAY	1		
	2	0.9	22.8
	3	B	
	1		
	2	0.8	21.8
-10	3	B	
	2		
	2	0.8	21.2
	3	B	
-15	2		
	3	1.2	14.8
	4	S	
-20	2		
	3	0.8	21.2
	3	S	
-25	1		
	2	0.8	24.8
-28.26	3	B	
End of Boring			
-30			
-35			
-40			

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
Division of Highways
AMERICAN GEOMECHANICS, INC.

SOIL BORING LOG

Page 1 of 1

Date 7/5/05

ROUTE FAI I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY RP

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.
Station

BORING NO. SPS-24
Station 1519+93.06
Offset 1.23ft Rt
Ground Surface Elev. 8.86 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elevs.
First Encounter Dry ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS/6" (SPT N)	UCS Qu (tsf)	MOIST (%)
Asphalt, 13" (8.86)			
-1.09			
Sub Base (FILL)	15		
	11		
	7		
	5		
	3		
-5	2		
Very Soft to Medium Stiff Gray CLAY (continued)	1		
	2	0.4	25.8
	1	B	
	1		
	1	0.2	24.8
-4.94	2	B	
Very Soft to Medium Stiff Gray CLAY	2		
	1	0.3	21.8
	2	B	
	1		
	1	0.2	25.8
-15	1	B	
	1		
	1	0.4	23.8
-20	1	B	
	1		
	1	0.4	25.8
-25	1	B	
	1		
	1	0.4	25.8
-28.14	1	B	
End of Boring			
-30			
-35			
-40			

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)

2 ADDED SHEET SB-04

CTE | AECOM

REVISIONS	
NAME	DATE
ADDENDUM #2	9-26-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (SB EXPRESS LANES)

SOIL BORING LOGS

SCALE: NONE DRAWN BY: PHP

DATE: September 16, 2005 CHECKED BY: JAL

9/8/2005 2:49:54 PM