F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2021-922PT.1-AC	COOK	460	173
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62693

Illinois Department of Transportation SOIL BORING LOG

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2

Date 7/9/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 SCD4
Station (Wall Eb)

BORING NO. RWEb-4
Station 521+17.63
Offset -4.26ft (WELL)
Ground Surface Elev. 17.74 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 6.7 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (ksf)	MOIST (%)
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			
-45	11 25/0"	8.2 S	8.0
Possible Bed Rock @ 46' -28.26			
End of Boring			
-60			

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

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 2

Date 7/7/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB3
Station (Wall Eb)

BORING NO. RWEb-9
Station 524+91.66
Offset -5.35ft (WELL)
Ground Surface Elev. 17.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 7.8 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (ksf)	MOIST (%)
Asphalt, 2" 17.59			
Concrete, 10" 16.76			
Sub Base (FILL)	13 15 15		
15.26			
Dark Brown Sand, trace Clay (FILL)	5 4 5		
-5	2 3 5		
7.76 ▼10	5 5 6		
Loose Gray SILTY LOAM	8 6 2	22.0	
5.26			
Very Stiff Gray CLAY	1 3 7	2.2 B	19.0
-15	4 7 8	2.8 B	15.0
0.26			
Very Stiff Gray CLAY LOAM	5 7 10	2.8 B	20.0
-20			
Very Stiff Gray CLAY LOAM (continued)	4 8 13	3.3 B	17.0
-4.74			
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM	8 14 20	5.0 B	16.0
-25	9 12 16	6.0 B	14.0
-30	8 12 15	6.6 B	12.0
-35	12 15 20	6.2 B	15.0
-40	8 13 19	8.4 S	16.0

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

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2

Date 7/7/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB3
Station (Wall Eb)

BORING NO. RWEb-9
Station 524+91.66
Offset -5.35ft (WELL)
Ground Surface Elev. 17.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 7.8 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (ksf)	MOIST (%)
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			
-45	12 25 30	@10 S	12.0
-50	27 @50		11.0
-32.24			
End of Boring			
-55			
-60			

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

Division of Highways
CHICAGO DRILLING COMPANY

Page 1 of 1

Date 8/12/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
(2021-922PT 1.2 &
SECTION 2122-921PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB2
Station Sign Trusses

BORING NO. STR-14
Station 1444+13.18
Offset -138.72ft (SDNR)
Ground Surface Elev. 18.38 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 6.4 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (ksf)	MOIST (%)
Asphalt, 4" 18.05			
Concrete, 10" 17.21			
Sub Base (FILL)	8 9 20		
15.88			
Medium Dense to Very Loose Brown, medium to coarse SAND, trace gravel	6 11 13		
-5	6 8 10		
▼	5 3 4		
-10	1 2		
	7 5 4		
3.38 -15			
Stiff to Very Stiff Gray CLAY	5 8 11	1.9 B	19.0
	7 10 15	2.2 B	18.0
-1.62 -20			
Very Stiff to Hard Gray SILTY CLAY LOAM	7 18 16	3.6 B	17.0
-6.62 -25	8 10 15	4.3 B	15.0
Hard / Dense Gray SILTY CLAY LGAM / SILTY LOAM	10 18 26	5.6 S	11.0
	10 17 21	7.5 S	13.0
	12 19 25		10.0
End of Boring -16.62 -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 SOIL BORING LOG

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 2

Date 3/19/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB2
Station (Wall Eb)

BORING NO. RWE-5
Station 529+45.36
Offset -2.68ft (WELL)
Ground Surface Elev. 18.16 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 8.2 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (ksf)	MOIST (%)
Asphalt, 1.5" 18.04			
Concrete, 9" 17.29			
Block	20		
Sand, Gravel & Cinders (FILL)	9 5		16.0
15.66			
Medium Dense Brown to Gray, Fine to Medium SAND (Possible Back Fill)	10 7 7		
-5	11 12 12		
	8 9 12		
8.16 ▼-10			
Loose to Medium Dense Gray, Moist SILTY LOAM	4 5 4	24.0	
3.16 -15	12 5 7		18.0
Very Stiff Gray CLAY	3 6 6	2.1 B	17.0
-1.84 -20	3 5 8	2.8 B	15.0
Very Stiff Gray CLAY LOAM	5 7 10	2.8 B	20.0
-25			
Very Stiff Gray CLAY LOAM (continued)	5 7 10	3.0 B	14.0
-6.84 -25	4 7 10	3.2 B	16.0
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM	5 9 13	4.6 B	13.0
-30	8 14 17	8.1 B	12.0
-35	14 16 22	10.5 S	12.0
-40	20 22 25	10.9 S	14.0

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

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 2 of 2

Date 3/19/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
(2021-922 PT 1.2 & 2122-921
SECTION PT1) R-4 LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 7 TAB2
Station (Wall Eb)

BORING NO. RWE-5
Station 529+45.36
Offset -2.68ft (WELL)
Ground Surface Elev. 18.16 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 8.2 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (ksf)	MOIST (%)
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			
-45	14 14 13		16.0
-50	18 32 50		11.0
-31.84			
End of Boring			
-55			
-60			

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)

ES-03

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5210, PHONE: (312) 938-0300

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
63rd ST TO 59th ST (FRONTAGE ROAD & RAMPS)

HIGH MAST TOWER FOUNDATION
SOIL BORINGS - SHEET 2

SCALE: None DRAWN BY: CHD
DATE: October 29, 2004 CHECKED BY: MK

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