F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2021-922PT.1-AC	COOK	460	273
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62693

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 1 — Date 7/13/04

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2 & 2122-921 PTI) R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W887, W965 — Station (Wall-Z)
BORING NO. RERb-9 — Station 123+40.59 — Offset -36.02ft (WW) — Ground Surface Elev. 11.56 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 4.1 ft▼ — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 3.5"	11.28				
Concrete, 10"	10.44				
Loose to Medium Dense Brown SAND			7 / 6 / 7		
		-5	2 / 2 / 3		
			5 / 2 / 3		
	4.06▼				
Stiff to Hard Gray CLAY		-10	2 / 2 / 2	1.1 B	24.0
			2 / 4 / 7	3.6 B	18.0
		-15	4 / 4 / 8	4.0 B	18.0
Btm/Ftg El -4.00					
			4 / 7 / 11	4.1 B	17.0
	-5.94				
Very Stiff to Hard Gray SILTY CLAY LOAM		-20	4 / 5 / 9	3.7 B	17.0
Very Stiff to Hard Gray SILTY CLAY LOAM (continued)			6 / 9 / 11	5.8 B	13.0
	-13.44	-25	8 / 9 / 10	5.8 B	13.0
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 — SOIL BORING LOG

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 1 — Date 5/29/03

ROUTE F.A.I. I-94 / I-90 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY A.P.
SECTION (1919.15A,ETC,2122-921PT.1) R-3 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. ___ — Station Subgrade
BORING NO. SGN-29 — Station 2442+02.95 — Offset 110.40ft (NBDR) — Ground Surface Elev. 1.92 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter Dry ft — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 11"	1.00				
Sub Base (FILL)			4 / 3 / 3		10.0
	-0.58				
Very Stiff Gray CLAY			3 / 3 / 4	2.7 B	15.0
		-5	3 / 5 / 6	2.4 B	14.0
	-3.58				
Very Stiff to Hard Gray, trace gravel SILTY CLAY LOAM			3 / 4 / 7	3.5 B	16.0
Btm/Ftg El -4.00					
	-8.08	-10	3 / 7 / 8	5.4 B	13.0
End of Boring		-15 / -20			

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 1/30/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY D.G.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 — Station (Wall - R)
BORING NO. RER-4 — Station 123+96.33 — Offset 25.04ft (WW) — Ground Surface Elev. 18.20 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 8.2 ft▼ — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 3"	17.95				
Concrete, 9"	17.20				
Sub Base (FILL)			9 / 5 / 3		
	15.70				
Loose to Medium Dense Gray SAND, trace Gravel (Possible Back Fill)		-5	3 / 3 / 2		
			2 / 3 / 2		
		▼-10	3 / 3 / 4		
			5 / 7 / 6		
	5.70				
Very Loose Gray, Moist SILTY LOAM			1 / 1 / 2		25.0
	3.20	-15			
Very Stiff Gray CLAY			5 / 7 / 9	2.1 B	18.0
		-20	5 / 7 / 10	2.3 B	16.0
Very Stiff Gray CLAY (continued)					
Btm/Ftg El -4.00			5 / 8 / 10	3.0 B	17.0
			5 / 7 / 11	3.1 B	17.0
	-6.80	-25			
Very Stiff to Hard Gray CLAY LOAM			5 / 8 / 16	4.4 B	14.0
		-30	9 / 14 / 15	4.8 B	11.0
		-35	9 / 17 / 20	5.8 B	13.0
	-21.80	-40	12 / 13 / 17	3.6 B	18.0

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 1/30/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY D.G.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 — Station (Wall - R)
BORING NO. RER-4 — Station 123+96.33 — Offset 25.04ft (WW) — Ground Surface Elev. 18.20 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 8.2 ft▼ — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard / Very Dense Grey SILTY CLAY LOAM / SILTY LOAM		-45	12 / 19 / 26	5.7 B	11.0
		-50	22 / 50 / -	5.6 S	13.0
	-36.80	-55	37 / 50 / -	6.3 S	14.0
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 1 — Date 7/13/04

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2 & 2122-921 PTI) R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W887, W965 — Station (Wall-Z)
BORING NO. RERb-10 — Station 124+36.21 — Offset -30.71ft (WW) — Ground Surface Elev. 15.12 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 6.6 ft▼ — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 3"	14.87				
Concrete, 10"	14.04				
Very Loose to Medium Dense Brown SAND			6 / 7 / 6		
		-5	3 / 3 / 3		
			3 / 2 / 3		
	▼	-10	1 / 1 / 0		
			1 / 3 / 5		
			3 / 2 / 1		
	0.12	-15			
Very Stiff Gray CLAY			3 / 5 / 8	3.4 B	17.0
Btm/Ftg El -4.00					
	-4.88	-20	2 / 3 / 5	3.5 B	17.0
Hard Gray SILTY CLAY LOAM			4 / 6 / 10	4.5 B	16.0
		-25	5 / 8 / 12	6.2 B	14.0
			7 / 9 / 12	6.6 S	13.0
	-14.88	-30	7 / 9 / 12	8.1 B,S	12.0
End of Boring		-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 1 — Date 6/16/04

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 — Station (Wall - R)
BORING NO. RERb-3 — Station 124+32.21 — Offset -0.17ft (WW) — Ground Surface Elev. 18.88 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 8.9 ft▼ — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 2"	18.71				
Concrete, 10"	17.88				
Dark Brown Sand, Trace Brick Chips (FILL)			6 / 7 / 10		
	16.38				
Loose to Medium Dense Brown to Gray, Medium to Fine SAND		-5	1 / 2 / 7		
			2 / 2 / 4		
		▼-10	5 / 7 / 8		
			5 / 6 / 7		
	6.38				
Loose Gray SILTY LOAM			2 / 2 / 4		24.0
	3.88	-15			
Very Stiff Gray CLAY			1 / 4 / 6	2.3 B	19.0
	-1.12	-20	3 / 4 / 6	2.4 B	19.0
Very Stiff to Hard Gray, trace gravel SILTY CLAY LOAM			4 / 5 / 6	2.4 B	18.0
Btm/Ftg El -4.00					
		-25	3 / 6 / 8	3.0 B	18.0
			6 / 8 / 11	6.4 B	14.0
	-11.12	-30	7 / 10 / 12	7.1 B	13.0
End of Boring		-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 1/28/03

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY D.G.
SECTION (2021-922 PT 1,2&2122-921 PTI)R-4 LOCATION Chicago, Illinois
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 016-W886 — Station (Wall - R)
BORING NO. RER-5 — Station 124+79.97 — Offset 1.63ft (WW) — Ground Surface Elev. 18.80 ft
Surface Water Elev. ___ ft — Stream Bed Elev. ___ ft
Groundwater Elev.: First Encounter 6.8 ft▼ — Upon Completion ___ ft — After ___ Hrs. ___ ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 3"	18.55				
Concrete, 10"	17.80				
Sub Base (FILL)			50 / - / -		
	16.30				
Sand and Brick Chips, Some Gravel and Pieces of Wood (FILL)		-5	10 / 11 / 7		
			13 / 4 / 5		
		-10	2 / 2 / 2		
Strong Petroleum Odor		▼	6 / 9 / 10		
	6.30				
Very Loose Gray, Moist SILTY LOAM			1 / 1 / 1		26.0
	3.80	-15			
Medium Stiff to Stiff Gray CLAY			11 / 9 / 12	2.0 B	20.0
		-20	5 / 5 / 7	1.0 B	19.0
Medium Stiff to Stiff Gray CLAY (continued)			5 / 4 / 8	1.5 B	18.0
	-3.70				
Stiff to Hard Gray CLAY LOAM					
Btm/Ftg El -4.00		-25	7 / 8 / 14	1.8 B	16.0
			6 / 9 / 15	3.0 B	17.0
		-30	8 / 12 / 16	3.3 B	14.0
		-35	8 / 15 / 16	5.0 B	13.0
	-21.20	-40	10 / 14 / 16	2.8 B	22.0

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)

Sheet Z18 of 21

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
SOIL BORING LOGS
SOUTH WENTWORTH AVENUE RETAINING WALL
WEST 59TH STREET TO WEST 63RD STREET
SECTION 2021-922 PT.1-AC
STATION 122+46.54 TO 130+53.87
COOK COUNTY S.N. 016-W887-W965

SCALE: None — DRAWN BY: SR
DATE: October 29, 2004 — CHECKED BY: JSS/MM