62877

CONTRACT NO.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	0305-302K-L-3	COOK	55	52
STA. 24+85		TO STA.121+25		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62877

BORING B–5

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Court, Suite 204
Naperville, Illinois 60565
(630) 355-2855

SOIL BORING LOG

PAGE 1 of 1
DATE February 23, 2005
LOGGED BY RH
GSI JOB No. 0502-A

ROUTE FAI 290/IL-53
DESCRIPTION High-Mast Light Pole Foundations IL 53/FAI 290, Higgins to Algonquin
SECTION 0305-302K-L-3
LOCATION NW & SW CORNERS, SEC. 18 & 7, TWP. 41N, RNG. 11E, 3rd PM
COUNTY Cook
DRILLING METHOD 3.25" Hollow Stem Auger
HAMMER TYPE D-50 Automatic

STRUCT. NO. n/a
Station n/a
BORING NO. B–5
Northing 1960896.5
Easting 1066652.0
Ground Surface Elev. 721.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL–dark brown & black (A–7) Fill	720.4				
			3		
CLAY–brown & gray spotted black–very stiff (A–6) Fill			4		
			5	2.7B	13
	717.9				
			2		
CLAY–dark brown, gray & black–soft (A–6) Fill, Wet Fuel odor noted.			2		
		–5	3	0.4B	29
	715.4				
			2		
TOPSOIL–black (A–7)			4		
			7	–	33
	712.9				
			2		
CLAY–brown & gray–stiff to very stiff (A–6)			4		
		–10	6	1.25B	21
			2		
			5		
			7	3.0B	21
	707.9				
			2		
CLAY–gray–stiff to hard (A–6)			5		
		–15	9	4.25B	18
			3		
			6		
			11	3.7B	16
			1		
			4		
		–20	6	1.8B	20

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–gray–stiff to hard (A–6)			4		
			5		
			7	1.8B	24
			2		
			3		
		–25	5	1.0B	14
			2		
			4		
			8	2.7B	17
			5		
			8	1.0P	20
	686.4	–35	503"		27
End of Boring @ –35.0' Boring Backfilled Upon Completion Hollow Stem Augers D-50 ATV					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

BORING B–6

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Court, Suite 204
Naperville, Illinois 60565
(630) 355-2855

SOIL BORING LOG

PAGE 1 of 1
DATE February 07, 2005
LOGGED BY RH
GSI JOB No. 0502-A

ROUTE FAI 290/IL-53
DESCRIPTION High-Mast Light Pole Foundations IL 53/FAI 290, Higgins to Algonquin
SECTION 0305-302K-L-3
LOCATION NW & SW CORNERS, SEC. 18 & 7, TWP. 41N, RNG. 11E, 3rd PM
COUNTY Cook
DRILLING METHOD 3.25" Hollow Stem Auger
HAMMER TYPE CME-55 Automatic

STRUCT. NO. n/a
Station n/a
BORING NO. B–6
Northing 1961514.5
Easting 1067065.6
Ground Surface Elev. 736.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL (Fill)	735.5				
			2		
			2		
			3	2.5B	18
CLAY–brown & gray–very stiff (A–6) Fill			4		
		–5	5		
			6	3.5B	17
			3		
			8		
			10	2.8B	23
			4		
		–10	8	4.0B	16
	725.5				
			3		
CLAY–dark brown spotted black–very stiff (A–6) Fill, Wet			7		
			9	2.5B	27
	723.5				
			4		
CLAY–brown & gray–very stiff (A–6)			8		
		–15	8	3.5B	17
			4		
			7		
			8	3.5B	19
	718.5				
CLAY–gray–stiff to hard (A–6)			5		
			8		
		–20	12	3.5B	15

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–gray–stiff to hard (A–6)			4		
			7		
			10	4.9B	16
			2		
			5		
		–25	8	1.8B	19
			3		
			5		
			7	2.5B	18
			3		
			6		
		–30	7	3.4B	19
			3		
			4		
			3		
			5		
	701.5	–35	7	3.1B	19
End of Boring @ –35.0' Boring Grouted Upon Completion Hollow Stem Augers CME-55					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAI 290/FAP 342 (I-290/IL 53)
IL 62 (ALGONQUIN ROAD)
TO IL 72 (HIGGINS ROAD)
BORING LOG III

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = 4/7/2005
FILE NAME = c:\projects\electrical\2984\i53.m32
PLOT SCALE = 50.0000 ' / IN.
USER NAME = lupsaw