F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-7)R-3	PEORIA	1360	1342
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 68200

LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam — *Textural classification of soil in accordance with IDOT Triangular Chart.*

BLOWS/150mm — *Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.*

Q_u, kPa — *Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.*

Moist, % — *Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.*

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 9/17/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JES

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. _____
Station _____

BORING NO. HMSB-118
Station 143+361
Offset 286.32m LT EB BL
Ground Surface Elev. 197.52 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter 194.8 m
Upon Completion none m
After 24 Hrs. 192.6 m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
NO SAMPLE TAKEN			
197.21			
Brown SILTY CLAY LOAM	3		
	8	287	13.3
	7	P	
196.45			
Brown & Gray CLAY	2		
	5	272	22.3
-1.5	5	S	
195.69			
Brown SILTY CLAY LOAM	1		
	3	134	24.2
	3	B	
	H	24	26.1
194.62	2	P	
Brown SILTY CLAY	2	120	13.3
-3.0		P	
194.17			
Gray CLAY LOAM TILL	2		
	3	316	15.0
	6	B	
	3		
	5	395	14.0
-4.5	8	B	
	2		
	6	316	13.1
	6	B	
	2		
	6	296	13.8
-6.0			

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray CLAY LOAM TILL (continued)	8	B	
	2		
	5	355	13.6
	6	B	
	1		
	2	142	15.5
-7.5	4	B	
189.90			
End of Boring			
-9.0			
-10.5			
-12.0			

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
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 9/26/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JAR,DLR

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. _____
Station _____

BORING NO. HMSB-119
Station 104+500.3
Offset 20.60m Rt. of B-3 BL
Ground Surface Elev. 198.39 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter none m
Upon Completion none m
After 24 Hrs. none m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken			
198.24			
Brown CLAY LOAM	2		
	2	120	14.9
	2	P	
	H		
197.18	H	24	22.6
Gray & Brown CLAY LOAM	2	P	
-1.5			
	2		
	3	96	21.3
	4	P	
	5		
	6	166	15.8
	6	B	
-3.0			
	2		
	7	126	15.3
	9	B	
	2		
	4	296	19.4
-4.5	6	S	
	4		
	6	197	16.1
organic silty loam seam@ 5m	7	B	
192.91			
Brown & Gray Mottled SILTY CLAY LOAM	2		
	3	158	27.0
-6.0	5	B	

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown & Gray Mottled SILTY CLAY LOAM (continued)			
thin v. soft seam @ 6.4m	1		
	2	119	25.3
	2	B	
	6		
191.38	6		11.3
Brown Coarse SAND & GRAVEL	4		
-7.5			
190.62			
Brown CLAY TILL	4		
4" silt seam	5	217	14.8
190.16	7	B	
End of Boring			
-9.0			
-10.5			
-12.0			

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
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 9/16/03

ROUTE FAI-74 DESCRIPTION HIGH MAST LIGHT TOWER LOGGED BY JES

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. _____
Station _____

BORING NO. HMSB-120
Station 143+468
Offset 331.00m LT EB BL
Ground Surface Elev. 194.04 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter 190.2 m
Upon Completion none m
After 24 Hrs. none m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
NO SAMPLE TAKEN			
193.58			
Brown SILTY CLAY	2		
	4	335	12.1
	5	P	
192.97			
Brown CLAY LOAM	2		
	3	263	22.0
-1.5	5	P	
192.21			
Brown SANDY CLAY LOAM	2		
	2	144	15.4
	2	P	
191.44			
Brown Fine SAND	4		
	7		6.1
-3.0	9		
	7		
	12		7.7
	9		
	6		
	9		18.3
-4.5	11		
189.01	4		21.4
Brown SANDY CLAY LOAM	5	355	14.0
188.70	9	S	
** hole collapsed upon completion @ 2.7m			
End of Boring			
-6.0			

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)

LIGHTING SHEET 58 OF 64

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT TOWER FOUNDATION
SOIL BORINGS

DRAWN BY CDF
CHECKED BY WJZ
DATE: 11/12/04

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601

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