F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(72-7)R-3	PEORIA	1360	1240
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 9/16/03

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-111
Station 39+813
Offset 31.00m RT BL Wor. Mem.
Ground Surface Elev. 195.84 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter none m
Upon Completion none m
After 24 Hrs. 194.3 m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
NO SAMPLE TAKEN	195.39				
Brown CLAY LOAM w/traces of gravel			3		
			11	383	9.5
			11	P	
			2		
		-1.5	6	277	12.0
			37	S	
2" Sand seam			2		
			3	334	13.4
			6	S	
			1		
		-3.0	3	209	14.2
			6	S	
			2		
			3	434	13.9
			6	B	
Brown & Gray CLAY LOAM TILL	191.58		2		
		-4.5	4	376	13.7
			8	S	
			2		
			5	334	13.2
			7	S	
		-6.0	1		

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
Brown & Gray CLAY LOAM TILL (continued)	189.59		4	277	13.5
			7	B	
** hole collapsed upon completion @ 5.39m End of Boring					
		-7.5			
		-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 9/24/03

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-112
Station 143+260
Offset 362.00m Lt. EB BL
Ground Surface Elev. 195.15 m

Surface Water Elev. m
Stream Bed Elev. m

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

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
no sample taken	194.84				
Brown CLAY LOAM TILL			3		
			4	355	14.4
			6	B	
			2		
		-1.5	5	277	14.4
			8	S	
Gray CLAY LOAM TILL	193.32		2		
			3	197	13.3
			4	B	
			1		
3" sand seam		-3.0	3	237	13.6
			4	B	
			2		
			4	316	13.3
			6	B	
			2		
		-4.5	4	335	13.3
			5	B	
			2		
			4	277	14.6
			6	B	
			7		
		-6.0	5	257	13.2

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
Gray CLAY LOAM TILL (continued)			6	B	
			2		
			3	197	14.7
			5	B	
			3		
		-7.5	4	197	13.7
			5	B	
** hole collapsed upon completion @ 6.86m End of Boring	187.53				
		-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 9/24/03

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-113
Station 143+214
Offset 540.03m Lt. EB BL
Ground Surface Elev. 191.19 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 187.3 m
Upon Completion none m
After 24 Hrs. 185.0 m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
no sample taken	190.74				
Brown & Gray CLAY LOAM			1		
			2	158	14.7
			3	S	
	189.98				
Brown & Gray/Gray CLAY LOAM TILL			2		
		-1.5	4	553	11.3
			5	S	
			2		
			4	493	12.4
			9	S	
			2		
		-3.0	3	376	13.4
			6	B	
			2		
			4	316	12.3
3" sand seam			6	B	
			2		
		-4.5	4	376	12.4
			6	B	
			2		
			4	355	12.9
			6	B	
			2		
		-6.0			

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
Brown & Gray/Gray CLAY LOAM TILL (continued)			4	395	13.0
			6	B	
			3		
			5	376	12.9
			8	B	
			2		
		-7.5	5	296	13.0
			7	S	
** hole collapsed upon completion @ 7.01m End of Boring	183.42				
		-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)

LIGHTING SHEET 56 OF 64

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT TOWER FOUNDATION
SOIL BORINGS

DATE: 11/12/04

DRAWN BY CDF
CHECKED BY WJZ

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

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