F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	TAZEWELL	1366	1248
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* (90-11)R-2;90(13, 14, 14-1)R-1

CONTRACT NO. 68201

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.

Qu, 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 11/21/03

ROUTE FAI-74 DESCRIPTION High Mast Light Tower LOGGED BY JAR

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-090
Station 153+148.7
Offset 25.60m LT of EB BL
Ground Surface Elev. 149.66 m

Surface Water Elev. ____ m
Stream Bed Elev. ____ m

Groundwater Elev.:
First Encounter 144.6 m ▼
Upon Completion * See EOB m
After 24 Hrs. ** See EOB m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
no sample taken	149.20				
Brown SANDY CLAY LOAM			2		
			3	110	16.9
			2	S	
			1		
		-1.5	4	137	14.3
			4	S	
	147.68				
Light Brown & Gray SANDY LOAM	147.45		3	159	15.8
Dk Brown SANDY SHALE			11	S	
			9	431	12.7
				P	
	146.91				
Gray SHALE			20		
		-3.0	90	431	7.7
			100	P	
	146.15				
Black/Brown CLAY w/ coal fragments			H		
			H		17.9
			2		
POSSIBLE VOID 3.51m to 4.42m					
	145.24		6		29.6
Gray SHALE		-4.5	17	530	12.2
			36	S	
			00e2"		17.1
		-6.0	40		
Gray SHALE (continued)			00e4"	431	11.5
				P	
			00e3"	431	8.8
				P	
			30		
		-7.5	70	431	11.2
	142.81		30e1"	P	
* H20 @ comp.=none Hole coll@5.76m					
**H20 @ 24hrs=4.24m Hole coll. @5.49m					
End of Boring					
		-9.0			
		-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 2

Date 11/17/03

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

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-091A
Station 153+303
Offset 48.01m Lt. Of EB BL
Ground Surface Elev. 157.22 m

Surface Water Elev. ____ m
Stream Bed Elev. ____ m

Groundwater Elev.:
First Encounter 146.9 m ▼
Upon Completion * See EOB m
After 24 Hrs. ** See EOB m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
no sample taken	156.76				
Brown CLAY LOAM			1		
			2	142	15.3
			4	B	
			3	79	15.2
	155.77	-1.5	14	B	2.6
Brown Fine SAND			19		
Brown Med-Coarse SAND & GRAVEL	155.23		3		
			6		4.2
			10		
			4		
		-3.0	8		4.3
			9		
			3		
			8		5.5
			13		
	152.95				
Brown SANDY CLAY LOAM			3		
		-4.5	12	592	14.1
			18	S	
			4		
			13	543	13.7
			17	S	
2.5cm sand seam					
	151.42				
Brown Med. SAND & GRAVEL		-6.0	3		
Brown Med. SAND & GRAVEL (continued)			8		3.7
			9		
			7		
			11		3.9
			11		
	149.90				
Brown & Lt. Brown Fine SAND		-7.5	8		
			15		4.1
			18		
			11		
			23		4.0
			23		
		-9.0	11		
			16		2.8
			17		
	147.61				
Fine-Med. SAND			9		
			13		4.8
			12		
	146.85				
Med. Coarse SAND		-10.5	9		
			25		15.8
			33		
	146.09				
Gray SHALE			00e5"		12.1
		-12.0	51		

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 2 of 2

Date 11/17/03

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

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-091A
Station 153+303
Offset 48.01m Lt. Of EB BL
Ground Surface Elev. 157.22 m

Surface Water Elev. ____ m
Stream Bed Elev. ____ m

Groundwater Elev.:
First Encounter 146.9 m ▼
Upon Completion * See EOB m
After 24 Hrs. ** See EOB m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	Qu (kPa)	MOIST (%)
Gray SHALE (continued)	145.85		76	431	18.9
Black COAL	144.87		240"	P	18.1
AUGERED TO 13.72m IN SHALE					
NO VOIDS ENCOUNTERED					
		-13.5			
	143.50				
*H20 @ comp.=none Hole coll. @ 8.69m					
**H20 @ 24 hrs =none Hole coll. @ 8.69m					
End of Boring					
		-15.0			
		-16.5			
		-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)

LIGHTING SHEET 38 OF 41

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT TOWER FOUNDATION
SOIL BORINGS

DRAWN BY CDF

DATE: 12/20/04 CHECKED BY WJZ

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

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