F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	TAZEWELL	1366	1249
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* (90-1)DR-2;90(13, 14, 14-DR-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.*

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 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-096
Station 153+609
Offset 26.49m Lt. Of EB BL
Ground Surface Elev. 142.55 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 137.5 m ▼
Upon Completion * See EOB m
After 24 Hrs. ** See EOB m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken	142.10				
Brown & Dk. Brown SILTY CLAY LOAM			1		
			4	104	15.2
			6	B	
			1		
	-1.5		2	83	21.3
			3	B	
Brown & Dk. Brown CLAY LOAM	140.57		1		
			2	134	17.5
			3	B	
Brown Fine-Medium SAND	139.81		4		
	-3.0		3		12.7
			2		
Brown Coarse SAND & GRAVEL	139.05		2		
			5		5.7
			5		
			3		
	-4.5		4		12.7
			7		
▼			2		
			3		44.0
			4		
			3		
	-6.0				
Brown Coarse SAND & GRAVEL (continued)			7		14.0
			8		
			5		
			6		11.8
			9		
			3		
	-7.5		6		15.2
			9		
			5		
			8		12.3
			10		
			4		
	-9.0		4		
			27		13.6
	133.26		5		
* H20@ comp=none Hole coll. @ 2.41m					
** H20@24 hrs=2.89m Hole coll. @ 3.0m					
End of Boring					
			7		
	-10.5		8		
			12		
			4		
			7		
			9		
	-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 11/21/03

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

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-099
Station 153+965
Offset 102.69m Lt. of EB BL
Ground Surface Elev. 143.20 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 138.3 m ▼
Upon Completion * See EOB m
After 24 Hrs. ** See EOB m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken	142.89				
Dk. Brown-Brown SILTY CLAY LOAM			2		
			3	176	16.5
			2	S	
			1		
			2	104	25.3
	-1.5		2	B	
			1		
			2	99	25.3
			3	B	
			1	48	24.4
			2	P	
Brown Med. Fine SAND	140.30		3		17.0
	-3.0				
Brown Medium SAND & GRAVEL	139.84		1		
			3		5.9
			5		
			2		
			1		16.9
	-4.5		2		
▼			2		
			2		13.8
			2		
Brown Coarse SAND & GRAVEL	137.56		8		
			3		9.5
	-6.0				
Brown Coarse SAND & GRAVEL (continued)			4		
			6		
			3		13.3
			5		
			3		
	-7.5		6		14.4
			11		
	135.58				
* H20@ comp=2.41m Hole coll. @ 4.94m					
** H20@24 hrs=none Hole coll. @ 3.14m					
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

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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-102
Station 154+059
Offset 107.99m Lt of EB BL
Ground Surface Elev. 145.88 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 139.2 m ▼
Upon Completion * See EOB m
After 24 Hrs. ** See EOB m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
no sample taken	145.27				
Brown CLAY LOAM			3		
			5	418	10.7
			8	S	
			1		
	-1.5		3	119	14.6
5.08cm sand seam			13	B	
	143.74		1		
Dk. Brown SILTY CLAY LOAM			3	119	23.3
			5	S	
Brown CLAY LOAM	142.98		2		
	-3.0				
			1	79	16.2
			2	S	
			1		
			2	134	21.6
			3	B	
	-4.5		H		
			2	99	22.0
			2	B	
Brown Medium SAND w/ some gravel	140.70		2		
			3		9.8
			3		
	-6.0				
Brown Medium SAND w/ some gravel (continued)			3		
			3		7.5
			2		
	139.17 ▼				
Brown Medium-Coarse SAND & GRAVEL			3		
			3		13.6
			8		
			3		
			3		18.3
			3		
	137.95				
*H20 @ comp. =none Hole coll. @ 5.61m					
**H20 @ 24 hrs =none Hole coll. @ 5.55m					
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)

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LIGHTING SHEET 39 OF 41

REVISIONS	
NAME	DATE

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT TOWER FOUNDATION
SOIL BORINGS

DRAWN BY CDF
DATE: 12/20/04 CHECKED BY WJZ

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