

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(72-7)R-3	PEORIA	1360	1059
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 8  
OF 9 SHEETS

Contract No. 68200



Illinois Department of Transportation  
Division of Highways  
1907

SOIL BORING LOG

Page 1 of 1

Date 3/18/04

ROUTE FAI-74 DESCRIPTION Ramp C-3 Culvert/MSE Wall 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 HISA HAMMER TYPE AUTO

STRUCT. NO. Station	DEPTH T W S H S	UCS S	MOIST S T	Surface Water Elev. Stream Bed Elev.	DEPTH T W S H S	UCS S	MOIST S T	Groundwater Elev. First Encounter Upon Completion After 24 Hrs.	DEPTH T W S H S	UCS S	MOIST S T
BORING NO. 10270 Station 10+270 Offset 1.50m RT BL Ramp C-3 Ground Surface Elev. 166.54 m											
Brown CLAY LOAM				165.17				162.5			
	1				1				1	197	15.6
	2	173	22.2		2				2	395	13.7
	2	B			6				10	B	
Brown/Gray SANDY CLAY LOAM				164.40							
	1	144	13.8		1				1		
	5	P			3				2		
	3				3				5		
Brown Med.-Use SAND				162.88							
	5				3				3		
	3	7.3			2				2		
	3				5				5		
	10				8				12		
	11				16				16		
Gray CLAY LOAM TILL				155.56							
	2	173	12.1		2				2		
	4	B			4				11		
	4				13				13		
	5				12				16		
	2	96	12.1		12				18		
	5	P			18				22		
	5				22				22		
	1				1				1		
	3	190	14.8		3				3		
	3	B			3				3		
	6.0				6.0				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, Form 137 (Rev. 8-99)

CLAUDE H. HURLEY COMPANY													
BORING LOG													
PROJECT NO. 3-380-D1					BORING NO. CE 54								
PROJECT FAI-74 IMPROVEMENTS - GALE AVENUE CORRIDOR													
LOCATION		CONVERT W81-74BL 145+853.6 26.36L			PEORIA & TAZEWELL COUNTIES, ILLINOIS								
STRUCTURE		STATION OFFSET			STATE								
DRILLING CONTRACTOR WANG ENGINEERING, INC.													
DATE OF DRILLING: STARTED 10-21-04					COMPLETED 10-21-04 SURFACE ELEVATION 166.54								
DRILLED BY R. BELL					LOGGED BY K. OLSON								
Elev	CLASSIFICATION	Depth	N Bp0.15m	Cu KPa	W %	Td Xgpm	GROUNDWATER DATA			DRILLING METHOD			
							DATE	DEPTH	HOUR	RIG TYPE	CMT-55	AUGER TYPE-DEPTH	0.15m HSA-12.30
	TOPSOIL FILL: BR BR ORGANIC SILT, A-7-5 W/ FIBERS		AU		42								
166.78	FILL: BR SILTY CLAY LOAM, A-6		1	165	28								
165.63	FILL: BR SAND, A-1-b		4		9								
164.87	FILL: GR SAND, A-2-4		6		13								
164.10	GR CLAY LOAM TO SILTY LOAM, A-4 TO A-6		2	115	17								
	SILT, A-4 SEAMS		3	190	17								
162.58	GR SILTY LOAM, A-4 W/ BK BR TO BLK ORGANIC SILTY CLAY, A-7-5 INCLUSIONS		1	105	17								
161.82	GR SILTY LOAM, A-4		2	135	16								
161.09	GR TO GR BR LOAM TO CLAY LOAM, A-4 TO A-6		3	260	14								
160.28	GR SILTY LOAM, A-4 W/ OCC SILT & SAND SEAMS		6	910	11								
159.84	GR LOAM, A-4		24		13								

LEGEND - RSV ENGINEERING INC. (NOW BLOOM CONSULTANTS, LLC) TEST BORING LOGS

A-1 to A-7 (and subgroups)	Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification.	Penetrometer Estimate	An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device.
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.	50 mm ST	50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.
q <sub>u</sub> , kPa	Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification.	Yd	Dry unit weight of soil specimen in kilograms per cubic meter.
STRAIN, %	Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification).	REC.	Length of sample recovered in millimeters.
WATER CONTENT, %	Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification.		

DESIGNED	GEK
CHECKED	
DRAWN	GEK
CHECKED	

BORING LOGS  
RAMP C-3 OVER DRY RUN CREEK  
F.A.I. RTE 74(I-74) SECTION (72-7)R-3  
PEORIA COUNTY  
STA. 10+190.00 TO STA. 10+277.94 (RAMP C-3)  
STRUCTURE NUMBER 072-8619 - WALL 18C



111 NE Jefferson Ave.  
Peoria, Illinois 61602  
Ph(309)676-8464  
FAX(309)676-5445

10/25/03 09:00 AM