

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.

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 sample in kilopascals determined in accordance with AASHTO T 208 standard specification.

STRAIN, % Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification).

WATER CONTENT, % Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 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.

50 mm ST 50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.

γ_d Dry unit weight of soil specimen in kilograms per cubic meter.

REC. Length of sample recovered in millimeters.

ROUTE NO.	SECT.	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA	597	1360
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 68200				

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS	
BORING LOG			
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-12	STATION: 104637
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 5.3m Rt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 195.22	
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO
Dense Br Sand A-1-b	182.26		12.50-12.95
Boring terminated at 13.0m			
REMARKS	CME Automatic Hammer Used.		*Denotes Calibrated Penetrometer Estimate
WATER	Drym ELEV.	DURING DRILLING	□ CORE SIZE
WATER	m ELEV.	AT COMPLETION	▽ CASING LENGTH
WATER	Drym ELEV.	AFTER 1/4 HRS.	▽ CASING DIAMETER

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS	
BORING LOG			
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-13	STATION: 104650
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 4.0m Rt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 197.71	
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO
75mm Root Zone Material: Black Silty Loam A-4: Organic matter noted	197.46		0.00-0.30
			0.30-0.76
			1.07-1.52
			1.83-2.29
			2.59-3.05
Very Stiff to Hard Br Clay Loam A-6			3.35-3.81
			4.11-4.57
			4.88-5.33
			5.64-6.10
	191.15		6.40-6.86
Very Stiff Gr Loam A-4			7.16-7.62
			7.92-8.38
			8.69-9.14
			9.45-9.91
Hard Br to Gr Silty Clay Loam A-4			10.21-10.67
			10.97-11.43
			11.73-12.19
Very Dense to Dense Br Sand A-1-b	185.82		
REMARKS	CME Automatic Hammer Used.		*Denotes Calibrated Penetrometer Estimate
WATER	Drym ELEV.	DURING DRILLING	□ CORE SIZE
WATER	m ELEV.	AT COMPLETION	▽ CASING LENGTH
WATER	Drym ELEV.	AFTER 1/4 HRS.	▽ CASING DIAMETER

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BORING LOG			
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PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8555	OFFSET: 4.0m Rt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers		SURF ELEV: 197.71	
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO
Very Dense to Dense Br Sand A-1-b	184.75		12.50-12.95
Boring terminated at 13.0m			
REMARKS	CME Automatic Hammer Used.		*Denotes Calibrated Penetrometer Estimate
WATER	Drym ELEV.	DURING DRILLING	□ CORE SIZE
WATER	m ELEV.	AT COMPLETION	▽ CASING LENGTH
WATER	Drym ELEV.	AFTER 1/4 HRS.	▽ CASING DIAMETER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS XII

MSE WALL NO. 8 - RAMP A-3
F.A.I. ROUTE 74 SECTION (72-7) R-3
PEORIA COUNTY
STA. 10+426.116 TO STA. 10+673.439 (RAMP A-3)
STRUCTURE NUMBER 072-8556

PARSONS TRANSPORTATION GROUP
CHICAGO, ILLINOIS

DRAWING NO. 21	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 21
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Date: 11/22/2004

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