

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

A-1 to A-7 Engineering classifications of soil samples in accordance with AASHTO M 145 (and subgroups)

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	593	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-2	STATION: 104478					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		OFFSET: 4.0m Rt						
LOCATION: Retaining Wall Ramp A-3 SN 072-8555		SURF ELEV: 190.86						
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers								
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
Loose to Medium Dense Gr Sand A-2-4	177.45		12.50-12.95	406	4			12
			13.26-13.72	406	7-10	249	15	16
			14.02-14.48	457	7-10	335	15	13
		15	14.78-15.24	457	7-10	316	15	12
			15.54-16.00	457	8-11	354	15	12
			16.31-16.76	457	5-9	335	15	14
Very Stiff Gr Loom A-4			17.07-17.53	457	10-15	345	15	12
			17.83-18.29	457	7-10	287	15	14
			18.59-19.05	457	6-8	220	15	13
			19.35-19.81	406	10-11	192	15	16
		20	20.12-20.57	457	10-14	201	15	13
			20.88-21.34	457	10-11	345	15	13
Boring terminated at 21.4m								
REMARKS				*Denotes Calibrated Penetrometer Estimate				
CME Automatic Hammer Used.								
WATER	10.1m ELEV.	180.74 DURING DRILLING	□ CORE SIZE	mm	DATE:	Mar 2, 00		
WATER	m ELEV.	AT COMPLETION	▽ CASING LENGTH	m	DRILLER:	Winslow		
WATER	11.0m ELEV.	179.88 AFTER 1/4 HRS.	⊗ CASING DIAMETER	mm	INSPECTOR:	Nelson		

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS						
BORING LOG								
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-3	STATION: 104478					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		OFFSET: 4.0m Rt						
LOCATION: Retaining Wall Ramp A-3 SN 072-8555		SURF ELEV: 190.38						
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers								
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
FILL: Br Sand A-1-b	190.23		0.00-0.30	Auger				
Medium Dense Br Sand A-1-b	189.46		0.30-0.76	406	3			17
Stiff Br Loom A-4(7)	188.70		1.07-1.52	457	5-6	124	15	16
Medium Dense Br Sand A-1-b	187.94		1.83-2.29	457	5			24
			2.59-3.05	457	6-12	220	15	14
Very Stiff to Hard Br Loom A-4			3.35-3.81	457	13-16	373	15	12
			4.11-4.57	457	11-13	393	15	13
		5	4.88-5.33	457	7-9	211	15	14
Very Stiff to Stiff Br Loom A-4			5.64-6.10	457	3	134	15	14
Cobble noted at 6.7m			6.40-6.86	457	11-23	105	15	15
			7.16-7.62	229	13-12	124	15	13
			7.92-8.38	457	10-11	220	15	14
			8.69-9.14	457	8-11	287	15	13
Very Stiff to Stiff Br Silty Clay Loom A-4			9.45-9.91	457	8-12	201	15	13
		10	10.21-10.67	457	5	230	15	13
Cobble noted at 11.3			10.97-11.43	457	10-13	163	15	13
Very Stiff to Stiff Br Silty Clay Loom A-4			11.73-12.19	457	11-12	259	15	13
REMARKS								
*Denotes Calibrated Penetrometer Estimate								
WATER	6.7m ELEV.	183.67 DURING DRILLING	□ CORE SIZE	mm	DATE:	Mar 13, 00		
WATER	m ELEV.	AT COMPLETION	▽ CASING LENGTH	m	DRILLER:	Fehl		
WATER	12.2m ELEV.	178.19 AFTER 1/4 HRS.	⊗ CASING DIAMETER	mm	INSPECTOR:	Shock		

RSV ENGINEERING, INC.		SCHAUMBURG, ILLINOIS						
BORING LOG								
JOB NO: 98600	CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING NO: RWA3N-3	STATION: 104478					
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		OFFSET: 4.0m Rt						
LOCATION: Retaining Wall Ramp A-3 SN 072-8555		SURF ELEV: 190.38						
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers								
SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/150mm	q _u kPa	STRAIN %	WATER CONTENT %
Very Stiff to Stiff Br Silty Clay Loom A-4	176.51		12.50-12.95	457	5	172	15	12
			13.26-13.72	457	5	172	15	12
			14.02-14.48	457	6	220	15	13
Very Stiff to Stiff Br Loom A-4		15	14.78-15.24	457	5	201	15	13
			15.54-16.00	457	7	182	15	13
			16.31-16.76	457	7	239	15	12
			17.07-17.53	457	4	192	15	13
			17.83-18.29	457	5	192	15	13
Very Stiff to Hard Br Silty Clay Loom A-4			18.59-19.05	457	6	211	15	13
			19.35-19.81	457	5	220	15	12
		20	20.12-20.57	457	10	316	15	11
			20.88-21.34	457	8	373	15	11
			21.64-22.10	457	17	651	15	10
			22.40-22.86	457	22	747	15	10
Boring terminated at 22.9m								
REMARKS				*Denotes Calibrated Penetrometer Estimate				
WATER	6.7m ELEV.	183.67 DURING DRILLING	□ CORE SIZE	mm	DATE:	Mar 13, 00		
WATER	m ELEV.	AT COMPLETION	▽ CASING LENGTH	m	DRILLER:	Fehl		
WATER	12.2m ELEV.	178.19 AFTER 1/4 HRS.	⊗ CASING DIAMETER	mm	INSPECTOR:	Shock		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VIII

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. 17	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 17
-------------------	-----------------	-----------------	-----------------

Time: 12:05:34 PM

Date: 11/22/2004

Filename: P:\649986\structure\072-8555\sheet\1\borings\BLO008-1A0728556.dgn