

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	590	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: RWA35-11	STATION: 104597
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8556	OFFSET: 7.0m Lt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers			SURF ELEV: 193.47
SOIL DESCRIPTION	ELEV.	DEPTH	REMARKS
75mm Root Zone Material: Black Silty Loam A-4; Organic matter noted	193.38	0.00-0.30	Auger 5
		0.30-0.76	330 5-8 383*
		1.07-1.52	432 5-8 335*
		1.83-2.29	457 5-8 43*
Hard to Very Stiff Br to Gr Clay Loam A-6(8)		2.59-3.05	432 5-7 239 15 17
		3.35-3.81	457 5-9 335 15 16
		4.11-4.57	432 5-9 239 15 16
	187.98	4.88-5.33	102 5-6 192*
Medium Dense Gr Silt A-4		5.64-6.10	203 3 6-8
	186.82	6.40-6.86	381 3 5-7 239*
Very Stiff to Hard Gr Loam A-4		7.16-7.62	457 8 7-13 412 15 13
	184.93	7.92-8.38	457 7 10-15 460 15 13
Very Stiff Gr Loam A-4		8.69-9.14	457 11 13-17 316 15 12
	183.93	9.45-9.91	457 15 20-22
Dense Br Sand A-1-b		10.21-10.67	457 18 23-19
	182.49	10.97-11.43	457 16 15-16
Dense to Medium Dense Br Sand A-1-a		11.73-12.19	457 6 11-9
	181.12		
REMARKS: *Denotes Calibrated Penetrometer Estimate			
WATER 10.1m ELEV. 183.41 DURING DRILLING CORE SIZE mm DATE: Apr 5, 00			
WATER m ELEV. AT COMPLETION CASING LENGTH m DRILLER: Fehl			
WATER Drym ELEV. 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: RWA35-11	STATION: 104597
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8556	OFFSET: 7.0m Lt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers			SURF ELEV: 193.47
SOIL DESCRIPTION	ELEV.	DEPTH	REMARKS
		12.50-12.95	457 7 10-15 259 15 13
		13.26-13.72	457 5 8-13 96 15 13
Very Stiff to Stiff Gr Loam A-4		14.02-14.48	457 5 6-8 144 15 14
		14.78-15.24	457 5 5-7 144 15 14
	177.31	15.54-16.00	457 4 7-8 182 15 13
Very Stiff Gr Loam A-4		16.31-16.76	457 5 7-9 239 15 14
	175.94	17.07-17.53	457 6 7-10 230*
Boring terminated at 17.5m			
REMARKS: *Denotes Calibrated Penetrometer Estimate			
WATER 10.1m ELEV. 183.41 DURING DRILLING CORE SIZE mm DATE: Apr 5, 00			
WATER m ELEV. AT COMPLETION CASING LENGTH m DRILLER: Fehl			
WATER Drym ELEV. 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: RWA35-12	STATION: 104617
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois		LOCATION: Retaining Wall Ramp A-3 SN 072-8556	OFFSET: 1.7m Lt
BORING RIG & METHOD: CME-55 w/Hollow Stem Augers			SURF ELEV: 189.97
SOIL DESCRIPTION	ELEV.	DEPTH	REMARKS
300mm P.C. Concrete	189.56	0.00-0.30	Auger 2
		0.30-0.76	305 4-5 393 15 13
Hard to Very Stiff Gr to Br Clay Loam A-6		1.07-1.52	356 2 5-7 201 15 16
		1.83-2.29	457 3 4-6 201 15 19
	187.53	2.59-3.05	330 2 4-6 393 15 15
		3.35-3.81	457 5 11-15 440 15 13
Hard to Very Stiff Br to Gr Loam A-4		4.11-4.57	457 5 11-15 412 15 14
		4.88-5.33	457 6 9-11 259 15 14
	183.72	5.64-6.10	457 4 7-16 220 15 13
Dense Br Silt A-4		6.40-6.86	457 9 25-31 6
		7.16-7.62	406 11 23-26 13
Dense Br Sand A-1-b		7.92-8.38	381 13 19-26 12
	180.92	8.69-9.14	457 18 15-9 335*
Very Stiff Gr Sandy Loam A-4		9.45-9.91	457 2 5-9 239 15 10
	180.28	10.21-10.67	457 7 11-13 287 15 14
Very Stiff to Stiff Gr Loam A-4		10.97-11.43	457 6 9-11 201 15 14
	177.78	11.73-12.19	457 3 6-9 172 15 14
Boring terminated at 12.2m			
REMARKS: CME Automatic Hammer Used. *Denotes Calibrated Penetrometer Estimate			
WATER 7.0m ELEV. 182.96 DURING DRILLING CORE SIZE mm DATE: Apr 6, 00			
WATER m ELEV. AT COMPLETION CASING LENGTH m DRILLER: Winslow			
WATER 9.1m ELEV. 180.82 AFTER 1/4 HRS. CASING DIAMETER mm INSPECTOR: Reed			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS V

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. 14	SCALE N.T.S.	DATE 6-25-04	SHEET NO. 14
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Time: 12:00:37 PM

Date: 11/22/2004

Filename: P:\643996\Structure\A3\072-8556\sheet\Tracings\BLO005\sheet\A3\072-8556.dgn